



99th Annual Report 2021-2022



UNIVERSITY OF DELHI
DELHI

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EDITORIAL BOARD

The 99th Annual Report of the University of Delhi for the period from 01.04.2021 to 31.04.2022 highlighting the activities and achievements of the University of Delhi during the year 2021-2022 is presented herewith.

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 provides Information and Data.

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

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- 14 Dr. Geetanjali Kala, Cluster Innovation Centre- Member Secretary



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The University of Delhi was established in the year 1922 by The Delhi University Act, an Act of the then Central Legislature. In its journey of almost a century, the University has made an indelible mark nationally and globally. The University has been striving towards nation-building through an unflinching adherence to universal human values reflected in its motto: '*Nishtha Dhriti Satyam*' (Dedication, Steadfastness and Truth).

Situated in the historic landscape of the capital city, spread over 407 acres, the University which began with three colleges has grown as one of the largest Universities in India with 16 faculties, 86 academic departments, 28 Centres, and 90 Colleges. The University has more than 500 programmes of study encompassing undergraduate, postgraduate, M. Phil. and Ph. D. among others on offer, out of which, more than 200 programmes are run by the Departments and Centres of the University.



VISION

Be an internationally acclaimed University, recognized for excellence in teaching, research and outreach; provide the highest quality education to students, nurture their talent, promote intellectual growth and shape their personal development; remain dedicated and steadfast in the pursuit of truth aligned with the motto of the University of Delhi "Nishtha Dhriti Satyam" and serve humanity through the creation of well-rounded, multi-skilled and socially responsible global citizens.

The range of programmes that the University offers attract students from every nook and corner of Bharat. The number of students over the years have exponentially grown from a meagre 750 students to more than Rs. 7,00,000/- and represent the microcosm of our nation as well as the globe. Such remarkable growth has only been possible by virtue of the relentless efforts put by every stakeholder of the University in the last century.

The academic and extracurricula elements are adequately reflected in its credible teaching-learning through pragmatic and realistic course structures, very much aligned with the contemporary global standards while keeping in mind the national priorities, significant contribution in research and innovation through scientific temper, literary skills and application of superior intellect.



OFFICERS OF THE UNIVERSITY

08.10.2021 Onwards

Chancellor

Hon'ble Muppavarapu Venkaiah Naidu

Pro-Chancellor

Justice Nuthalapati Venkata Ramana

Vice-Chancellor

Prof. Yogesh Singh

Pro-Vice-Chancellor

Prof. P.C. Joshi (up to 16.12.2021)

Dean of Colleges

Prof. Balaram Pani

Director, South Delhi Campus

Prof. Suman Kundu (up to 16.12.2021)

Prof. Shri Prakash Singh

Director, Campus of Open Learning

Prof. Balaram Pani (up to 16.12.2021)

Prof. Payal Mago

Treasurer

Prof. Kavita Sharma

Proctor

Prof. Neeta Sehgal (up to 16.12.2021)

Prof. Rajni Abbi

Librarian

Dr. Rajesh Singh

Registrar

Dr. Vikas Gupta,

Dean of Faculty of Arts

Prof. Najma Rehmani

Applied Social Science & Humanities

Prof. Sanjay Sehgal

Ayurvedic and Unani

Prof. Neelam Vaney

Commerce & Business

Prof. Reetesh Kumar Singh

Education

Prof. Shobha Sinha

Homeopathic Medicine

Prof. Neelam Vaney

Inter-Disciplinary and Applied Sciences

Prof. Swati Saha

Law

Prof. Vandana (up to 21.12.2021)

Prof. Usha Tandon

Management Studies

Prof. Vivek Suneja

Mathematical Sciences

Prof. Ruchi Das

Medical Sciences

Prof. A. K. Jain

Music & Fine Arts

Prof. Deepti Omchery Bhalla (up to 31.01.2022)

Prof. Alka Nagpal

Science

Prof. Ashok Kumar Prasad

Social Sciences

Prof. Surender Kumar (up to 12.03.2022)

Prof. Seema Bawa

Technology

Prof. K. S. Rao



OFFICERS OF THE UNIVERSITY

Till 07.10.2021

Chancellor

Hon'ble Muppavarapu Venkaiah Naidu

Pro-Chancellor

Justice Sharad Arvind Bobde (up to 23.04.2021)

Vice-Chancellor

Prof. P. C. Joshi (Acting)

Pro-Vice-Chancellor

Prof. P.C. Joshi (up to 16.12.2021)

Dean of Colleges

Prof. Balaram Pani

Director, South Delhi Campus

Prof. Suman Kundu

Director, Campus of Open Learning

Prof. Balaram Pani

Treasurer

Prof. Kavita Sharma

Proctor

Prof. Neeta Sehgal

Librarian

Dr. Rajesh Singh

Registrar

Dr. Vikas Gupta,

Dean of Faculty of Arts

Prof. Syed Ali Karim (up to 30.09.2021)

Prof. NajM.A. Rehmani

Applied Social Science & Humanities

Prof. Sanjay Sehgal

Ayurvedic and Unani

Prof. Neelam Vaney

Commerce & Business

Prof. Reetesh Kumar Singh

Education

Prof. Shobha Sinha

Homeopathic Medicine

Prof. Neelam Vaney

Inter-Disciplinary and Applied Sciences

Prof. Alo Nag (up to 15.09.2021)

Prof. Swati Saha

Law

Prof. Vandana (up to 21.12.2021)

Prof. Usha Tandon

Management Studies

Prof. Vivek Suneja

Mathematical Sciences

Prof. C.S. Lalitha (up to 12.04.2021)

Prof. Ruchi Das

Medical Sciences

Prof. A. K. Jain

Music & Fine Arts

Prof. Deepti Omchery Bhalla

Science

Prof. Ashok Kumar Prasad

Social Sciences

Prof. Surender Kumar

Technology

Prof. Vinay Gupta, (up to May, 2021)

Prof. K. S. Rao



ACHIEVEMENTS OF THE YEAR

The University takes pride that in its journey of a 100 years, it has progressed significantly in the right direction under able leaderships and by virtue of systematic and coordinated efforts of all the stakeholders including during the challenging pandemic situation, arising out of Covid-19. The University has been able to continue its commendable community outreach programmes like Unnat Bharat Abhiyan, Swachh Bharat Abhiyan, Health Camps, Social initiatives during the pandemic situation with the help and cooperation of all the stakeholders. Extraordinary efforts and a cooperative approach have helped the University in every student-centric activity: online admissions, successful implementation of online teaching-learning with maximum possible outreach within the available resources through OneDU Programme, one-of-a-kind conduct of Open Book Examinations (OBE), provision of digital degrees and placement endeavours are among many such path-breaking initiatives.

RANKINGS

National Ranks

Rankings	2022
National Institutional Ranking Framework (NIRF) for Universities (Published for the year-2021)	12
Centre for World University Rankings (CWUR): National Rank (2022-23)	6

International Ranks

Rankings	2022
Times Higher Education (THE) World University Ranking (Published for the year-2022)	801-1000
THE India Rank (2022)	18
THE Asia University Ranking (2022)	201-250
THE Emerging Economics University Ranking (2022)	201-250
Centre for World University Ranking (2022-23)	591
QS India Ranking position among Indian educational institutions and universities (2020)	7th
QS World University Rankings (2023)	521-530
QS Asia University Rankings (2022)	77

QS World Subject-Wise Ranks, 2022	
Development Studies	41
Sociology	101-150
Modern Languages	101-150
Economics and Econometrics	146
English Language & Literature	151-200
Philosophy	151-200



Geography	151-200
History	151-200
Social Sciences & Management	195
Accounting & Finance	201-250
Physics and Astronomy	201-250
Linguistics	251-300
Biological Sciences	251-300
Chemistry	401-450
QS Graduate Employability Rankings, 2022	
Indicators	
Overall Scores	201-250
Alumni Outcomes	96
Employer Reputation	33.6
Employer-Student Connections	-
Partnership with Employers	-

The Department of Social Work was ranked as the 3rd best college in India in Social Work and the best government-funded College of Social Work in India, by 'India Today', MDRA Survey under the Best Colleges of India Survey, released in July 2022.

Results of Best College Survey-2022, conducted by India Today MDRA

Rank	Parameter
1 st	Best College* of Social Work in Northern India
1 st	Best Government-Funded College of Social Work in India
3 rd	Best College of Social Work in India among 56 participating colleges
1 st	Best in Intake Quality & Governance in India
3 rd	Best in Academic Excellence in India

1 st	Best Government funded College in Social Work in Academic excellence in India
2 nd	Best in Personality and Leadership Development in India
1 st	Best Government-Funded College in Social Work in Personality and leadership development in India
2 nd	Best in Career Progression & Placement in India
1 st	Best Government-Funded College in Social Work in career progression & placement
33 rd	Best in Infrastructure in India

(The survey is for the academic year 2020-2021)
*College is used as a term for the Department/faculty



Departments with Financial Assistance Under Various Schemes of UGC (SAP) For The Year 2021- 22.

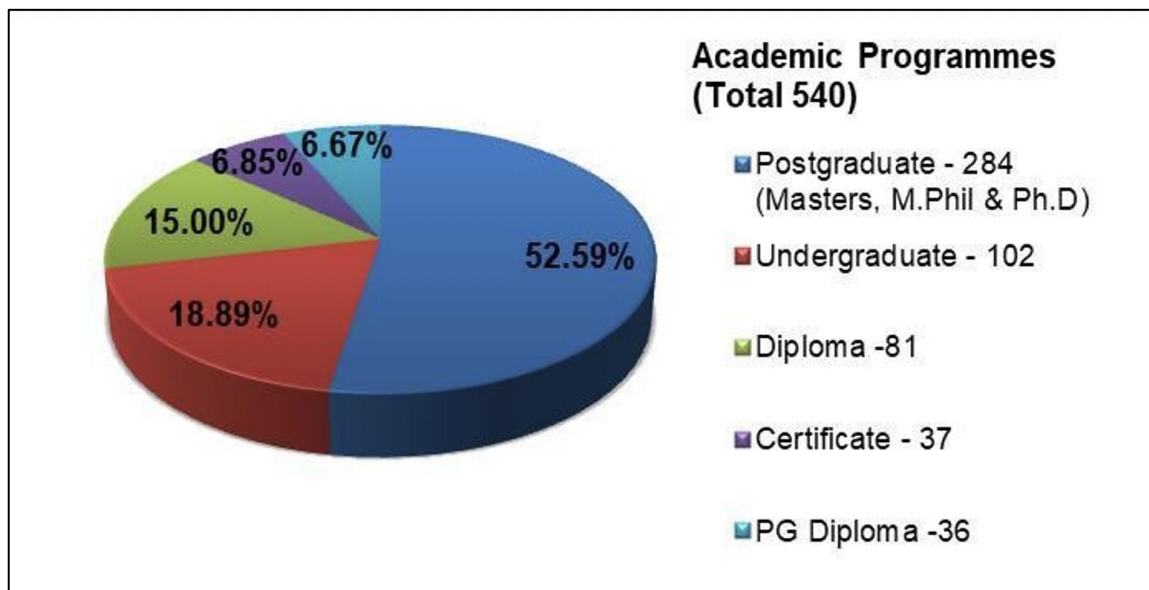
Departmental Research Support (DRS)
Department of Botany

Centre for Advanced Study (CAS)
Department of Physics and Astrophysics
Department of Zoology
Department of Geology

Student Enrollment

As per 2021-22 data, the University has 2,28,561 undergraduate, 32,439 Post graduate students, including students of M.Phil./Ph.D. and 6,544 in certificate/Diploma/PG Diploma on rolls. The total number of students enrolled in conventional mode is 2,67,544.

Additionally, as many as 3,24,017 Students are enrolled in the distance mode and 32,902 non-collegiate women students also form part of this mammoth University. The total enrollment across conventional and distance mode in all programmes was 6,24,463 during 2021-22.

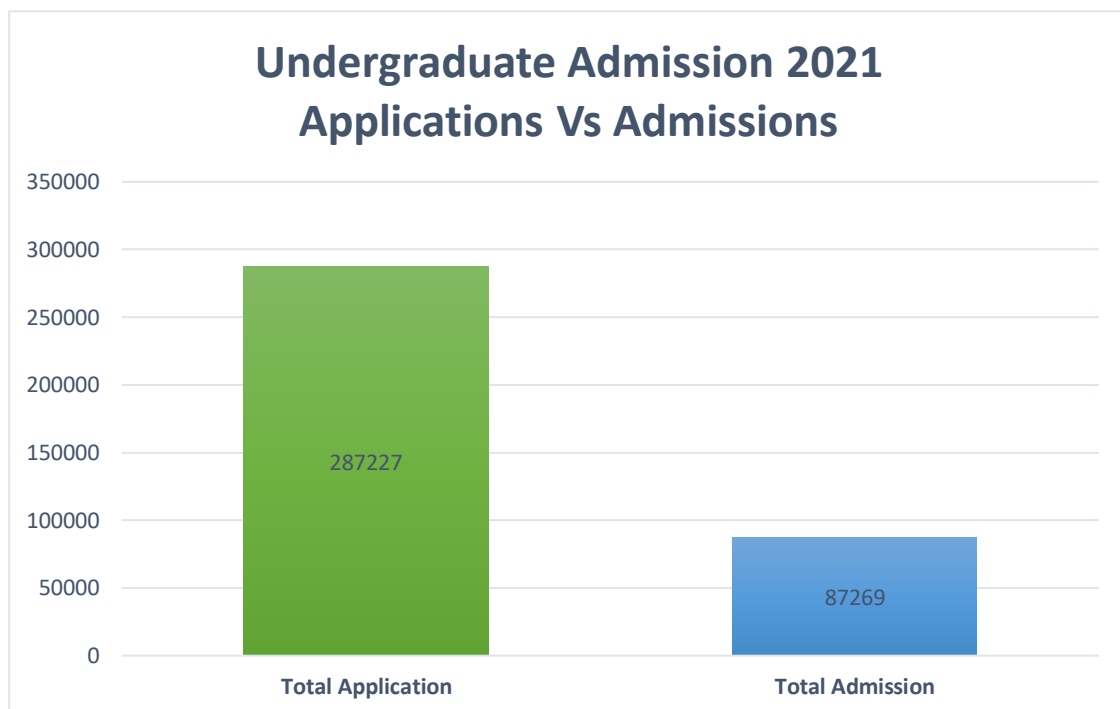




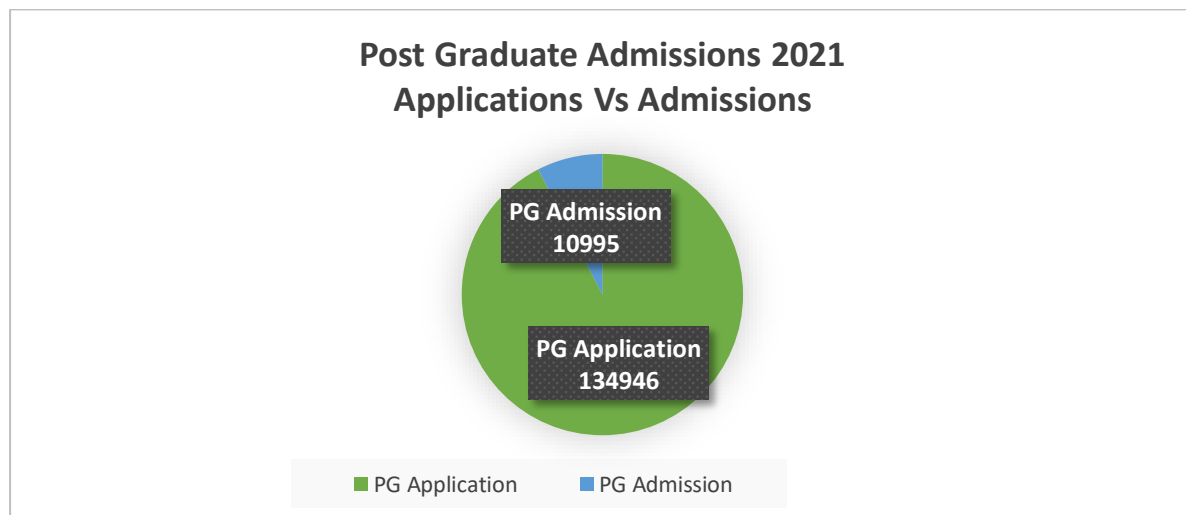
Admissions

The University of Delhi takes pride in its academically rigorous program mess at the Undergraduate, Postgraduate, and M.Phil./Ph.D. levels, aided by a rich cultural environment and extra-curricular activities that are reflective of the diversity of India, making it a popular choice for many aspiring students. The Admission year 2021-22 witnessed a great turnout of admission seekers, despite being a pandemic year again, with the starting of the Registration process on 26.07.2021 wherein a total of 4,38,696,183815 and 30,019 aspirants registered successfully at the UG, PG, and M.Phil./Ph.D. levels respectively.

The Undergraduate program mess of the University are sought after as evident from the fact that the number of applications received for admissions were more than 3 times the number of admissions

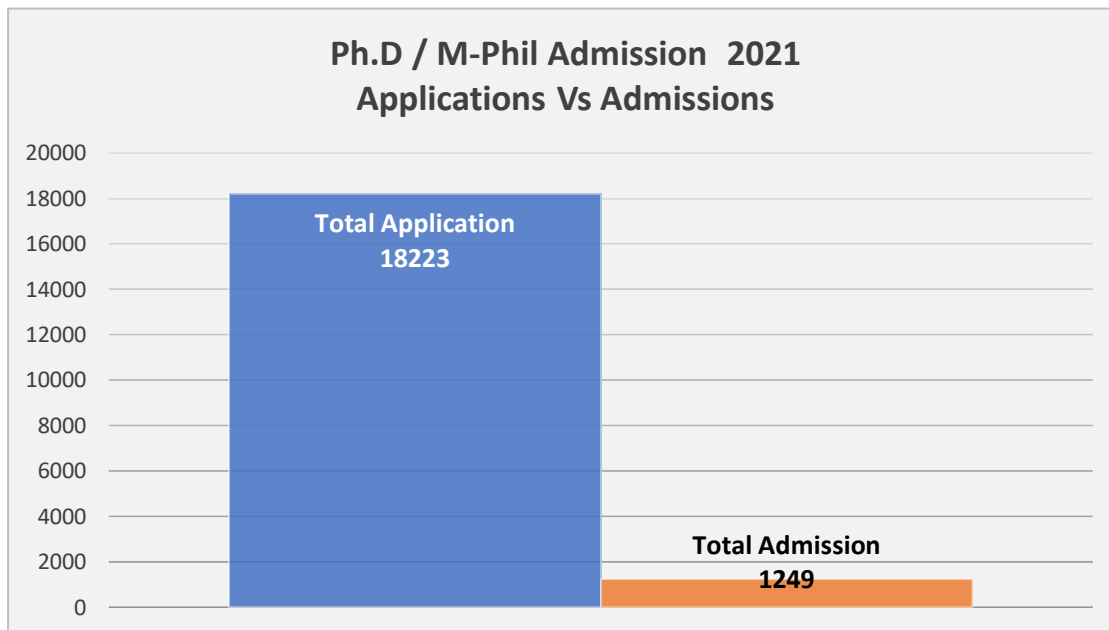


In the case of Postgraduate admissions, the number of applications received were more than twelve times the number of admissions.

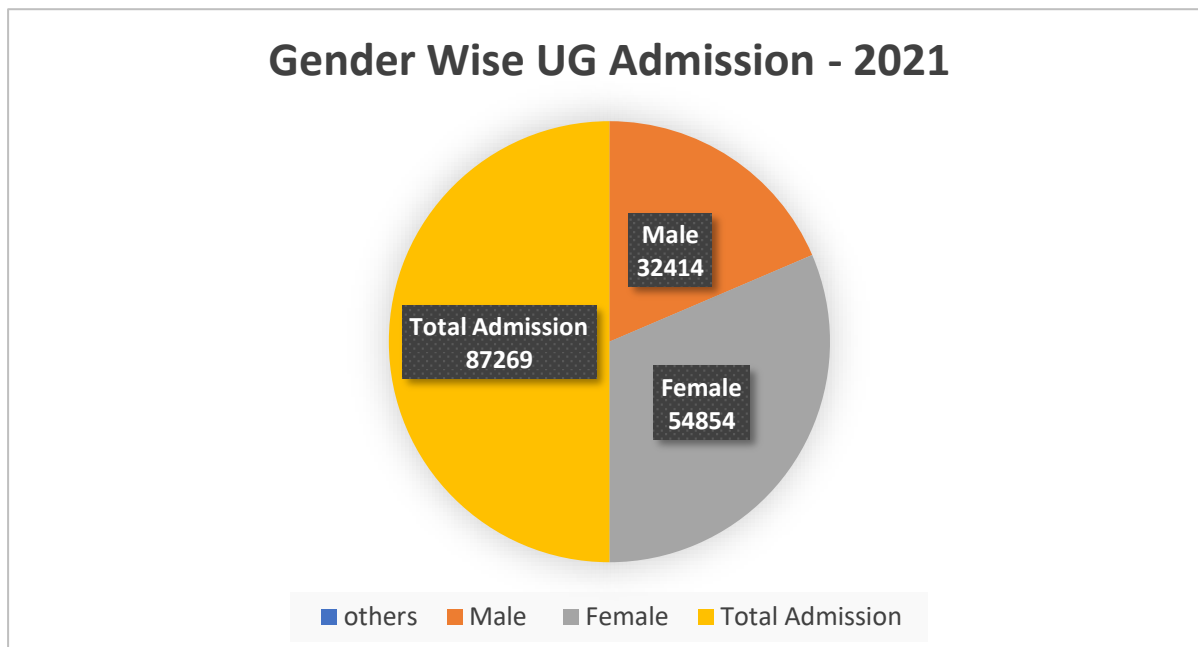




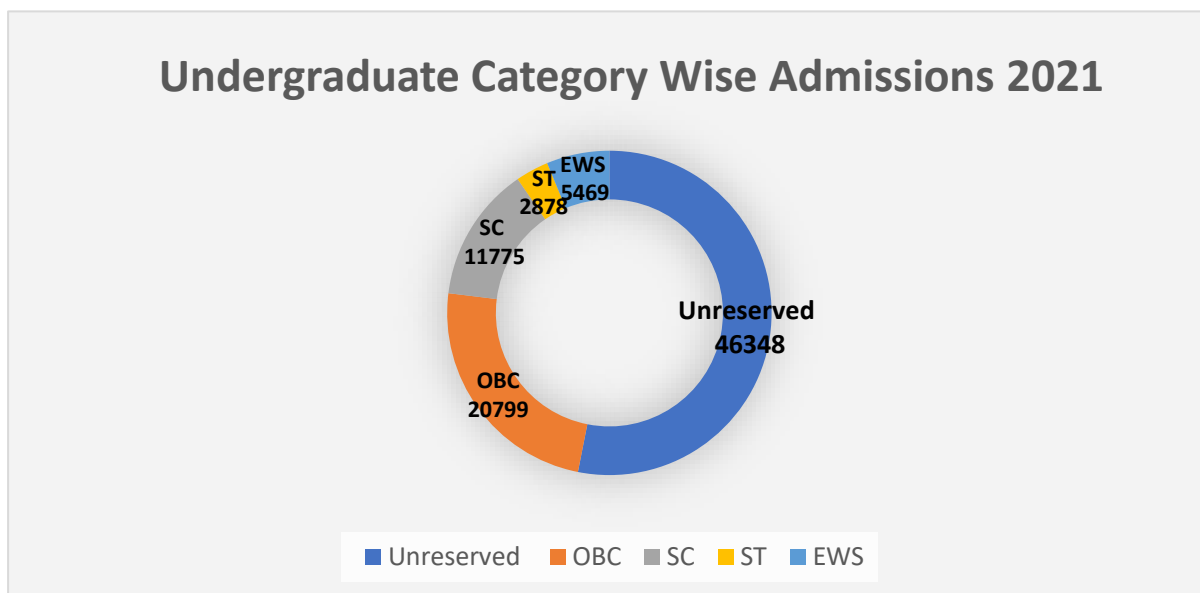
The applications vs admissions graph below clearly indicates a high demand for the research degree from the University of Delhi.



The admission process to all Under-Graduate programmes and 75 Post-Graduate programmes for the academic session 2021-22 was successfully completed on 31.12.2021. In Undergraduate Courses, approx. 87,520 candidates (Including Supernumerary and NCWEB) got admissions. Amongst those admitted, 62.8 % were female students indicating that the University provides a safe academic ecosystem for higher education of female students.

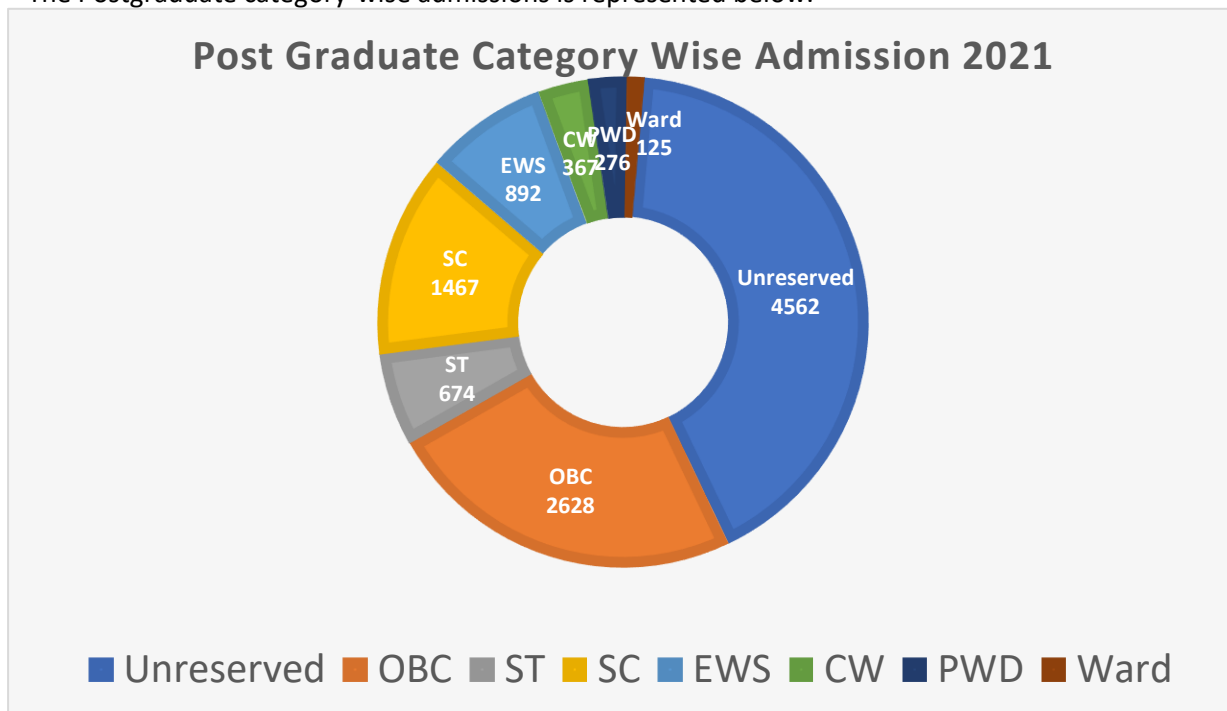


The Undergraduate category-wise admissions is represented below.

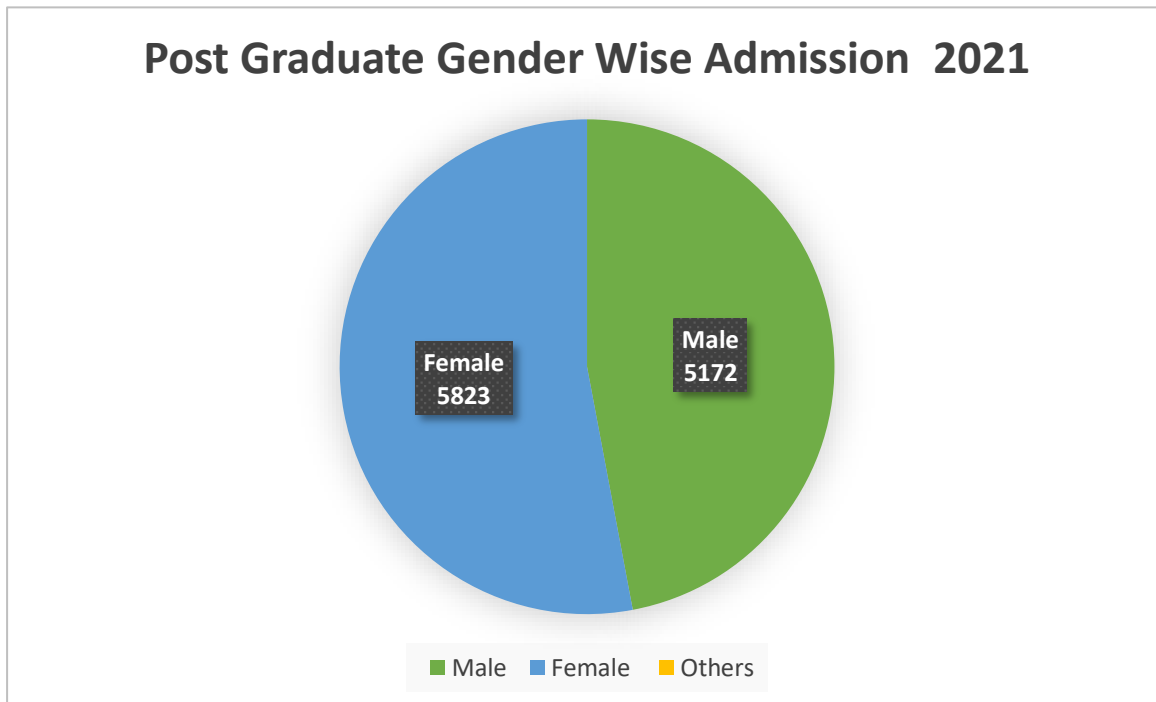


In Postgraduate courses, approx. 11,016 candidates (Including Supernumerary and NCWEB) were admitted in the academic year 2021-22.

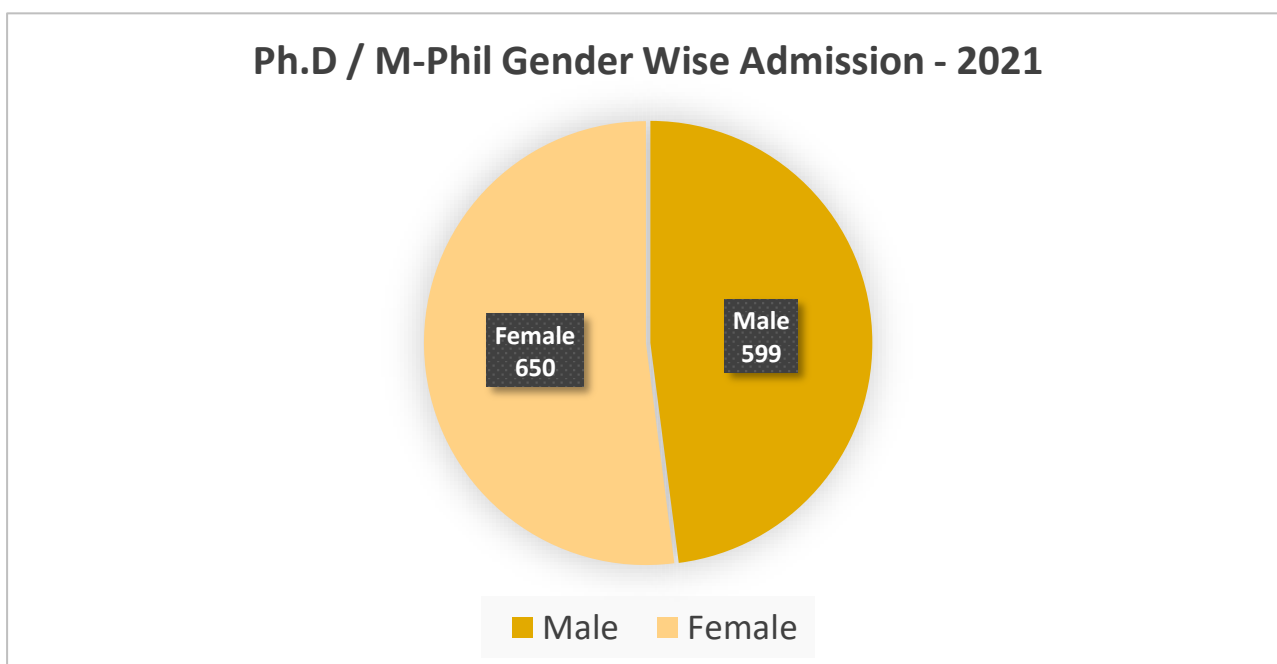
The Postgraduate category-wise admissions is represented below.



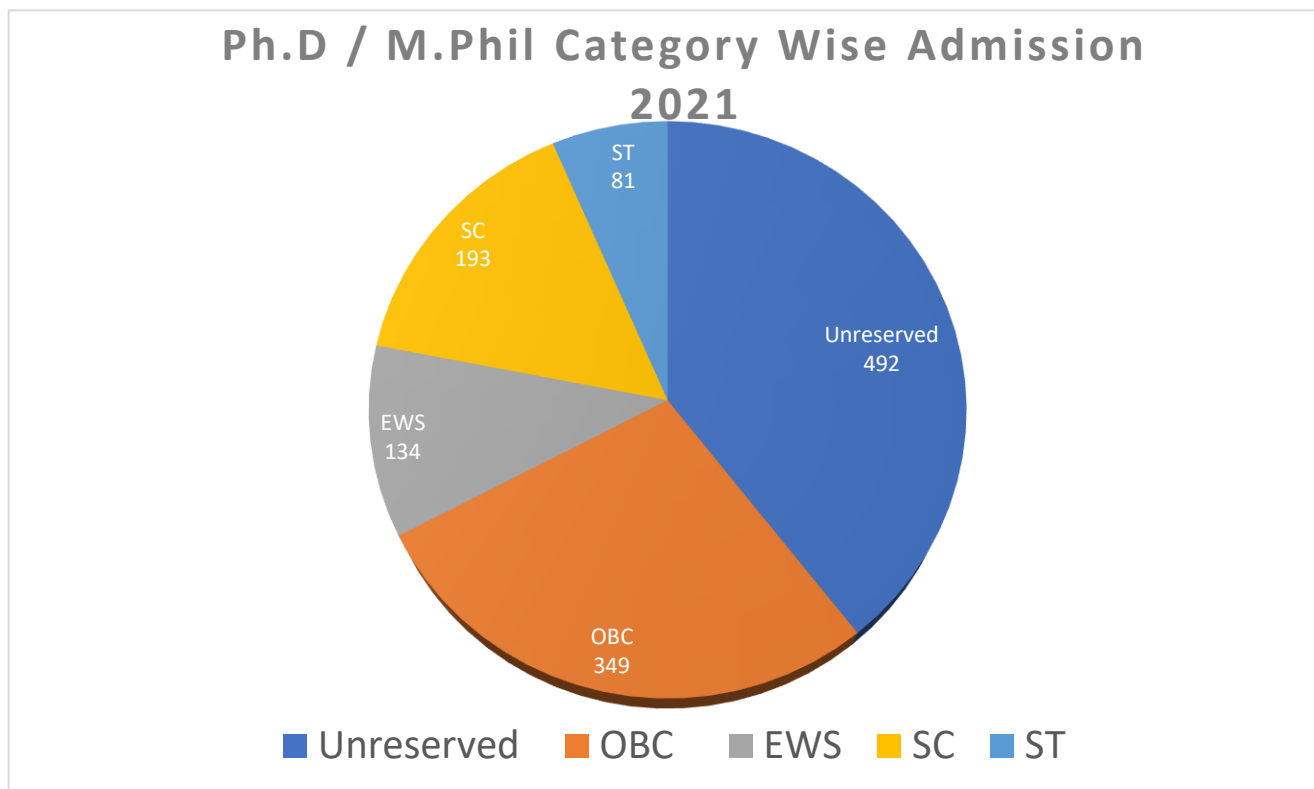
The gender-wise distribution of postgraduate admissions in the year 2021 continued the trend of gender equality at the University of Delhi, wherein more than fifty percent of the students admitted in the postgraduate courses were female. This is indicative in the graph below



Admissions to the First round of 92 M.Phil. and Ph.D. courses for the academic session 2021-22 got completed on 31.01.2022. The gender distribution graph of the PhD/MPhil admissions follow the trend of admissions in the other courses of the University wherein the number of admitted female students are more in comparison to the admitted male students.



The graph below represents the category-wise admissions in the PhD/MPhil degrees.



As part of a systemic effort to ensure an inclusive and effective process of admission, a dedicated admission Website for concise and quick reference to information was established.

<https://admission.uod.ac.in>

In addition, an admission Helpdesk was constituted which was mandated to actively respond, resolve and direct the admission-related queries of the applicants so that no one is left out in the process of online admission during the pandemic era. This mandate was fulfilled through a multi-dimensional approach – Displaying illustrative examples, organizing almost 10 Open- House webinars/ Virtual days, Course-specific emails, call-in service, and Chatbots. Details of email ids and phone numbers of Nodal Officers, Helpdesk members of every college and Department, and Admission Branch were displayed on the website. The provision of a suggestive auto-calculator was made available on the dashboard of the candidates to help them calculate their Best Four/Three for every course they were eligible for.

During the time of admissions, a Central Grievance Redressal Committee was constituted to ensure the

timely resolution of admission-related problems of all aggrieved applicants. The Grievance Redressal Committee not only used an email facility to respond online in real time but also attended to offline grievances fulfilling their mandate of objective and speedy redressal of grievances. Similar Grievance Committees were also constituted in the Colleges for quicker resolution.

Besides the regular admission process including ECA, Sports and Other Supernumerary categories, admissions under NCWEB were also effectively concluded in a centralized manner ensuring fair admissions, within the University’s timeframe.

A long admission cycle during another pandemic year was made easy because of a dedicated team in the Admission Branch and support from all stakeholders of the University of Delhi.

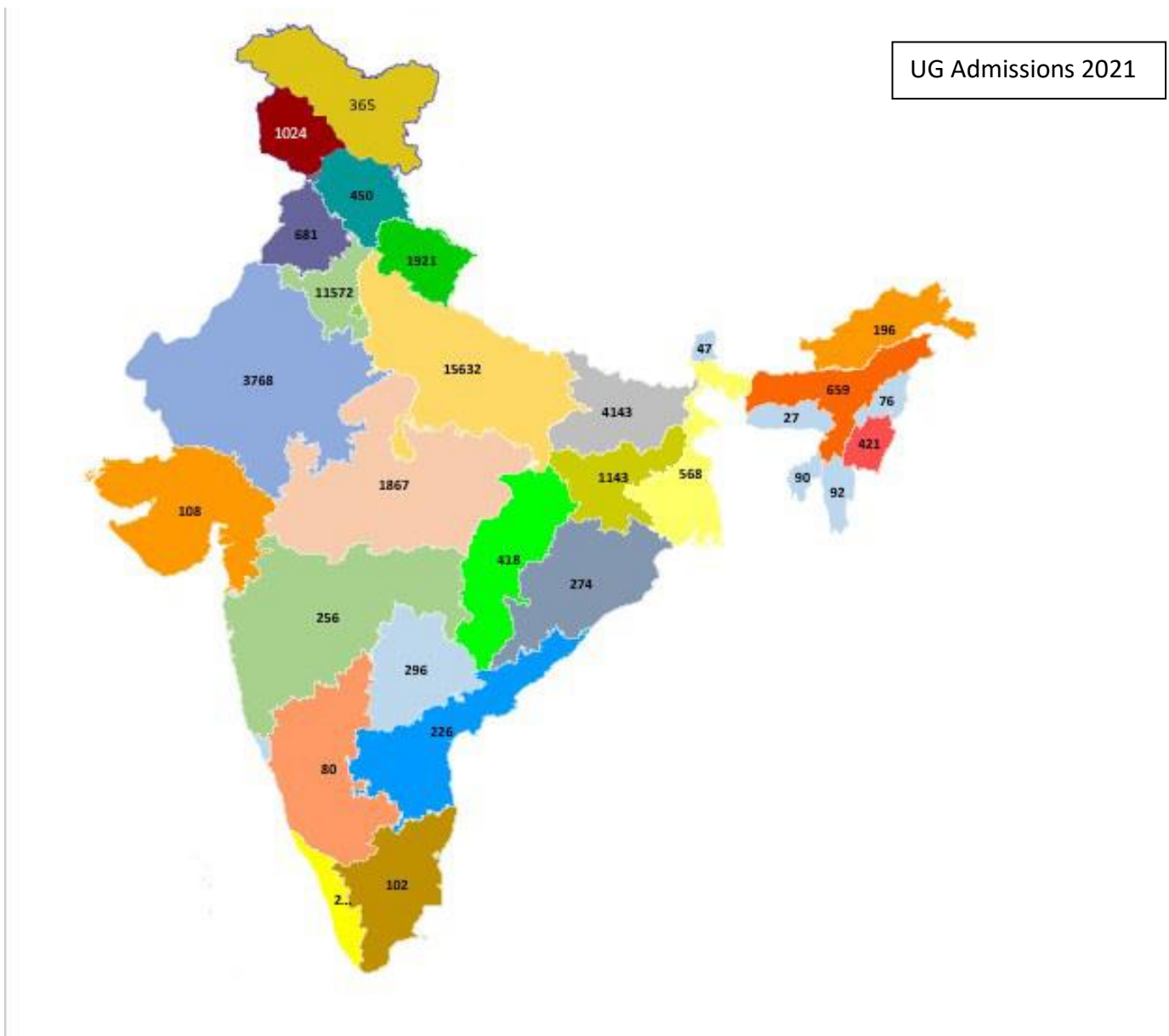


University of Delhi: A True Microcosm of India

STUDENT DIVERSITY

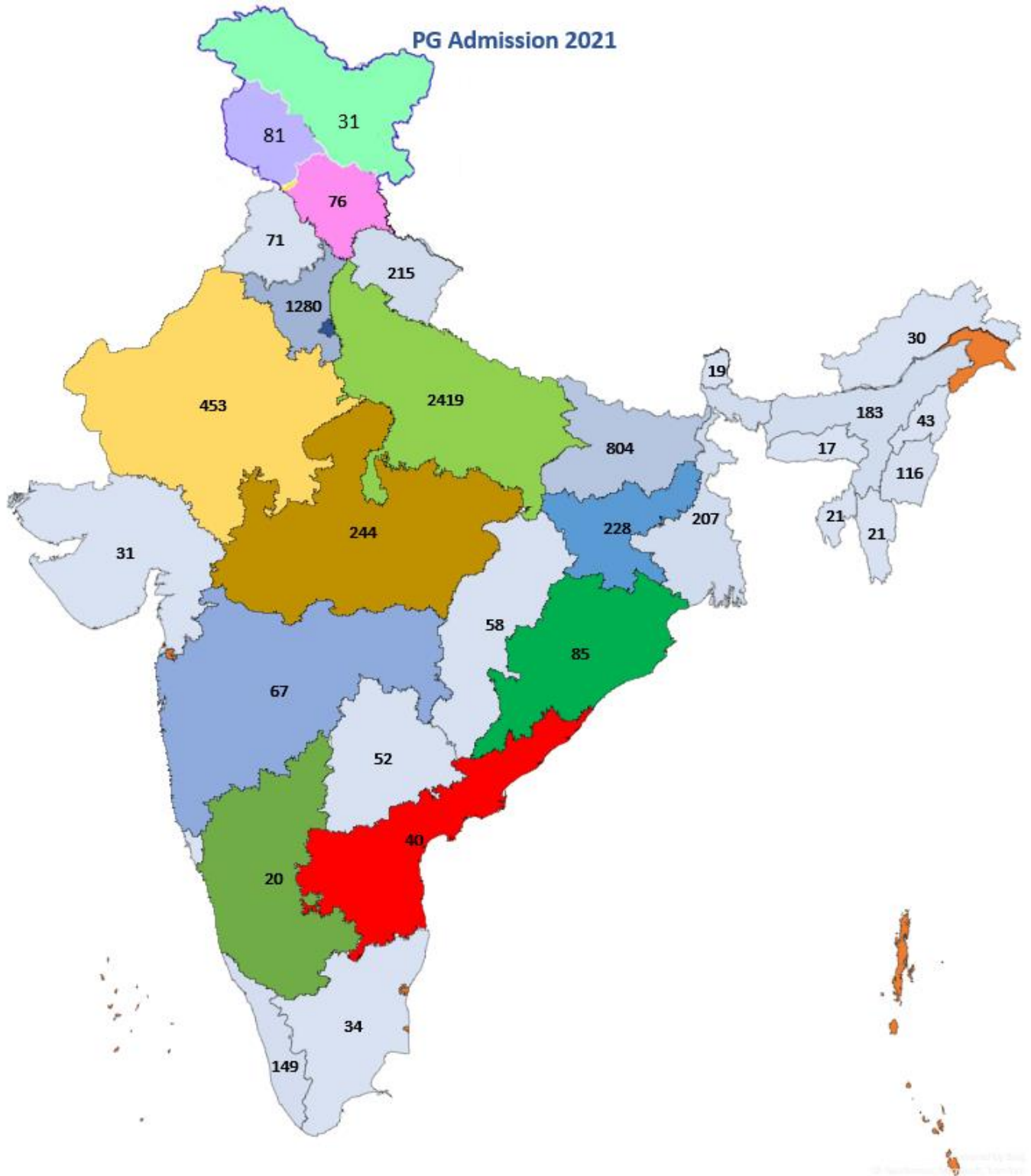
The University is proud of its regional diversity reflected in its admitted students at all levels. The following graphs representing the states from where the students have been admitted to the University, provides rich evidence to the fact that the University attracts students from all parts of the country including the remotest states. At present, more than half of the students in the University come from states other than Delhi.

The following graph is representing the number of students coming from various states in the undergraduate courses of the University.

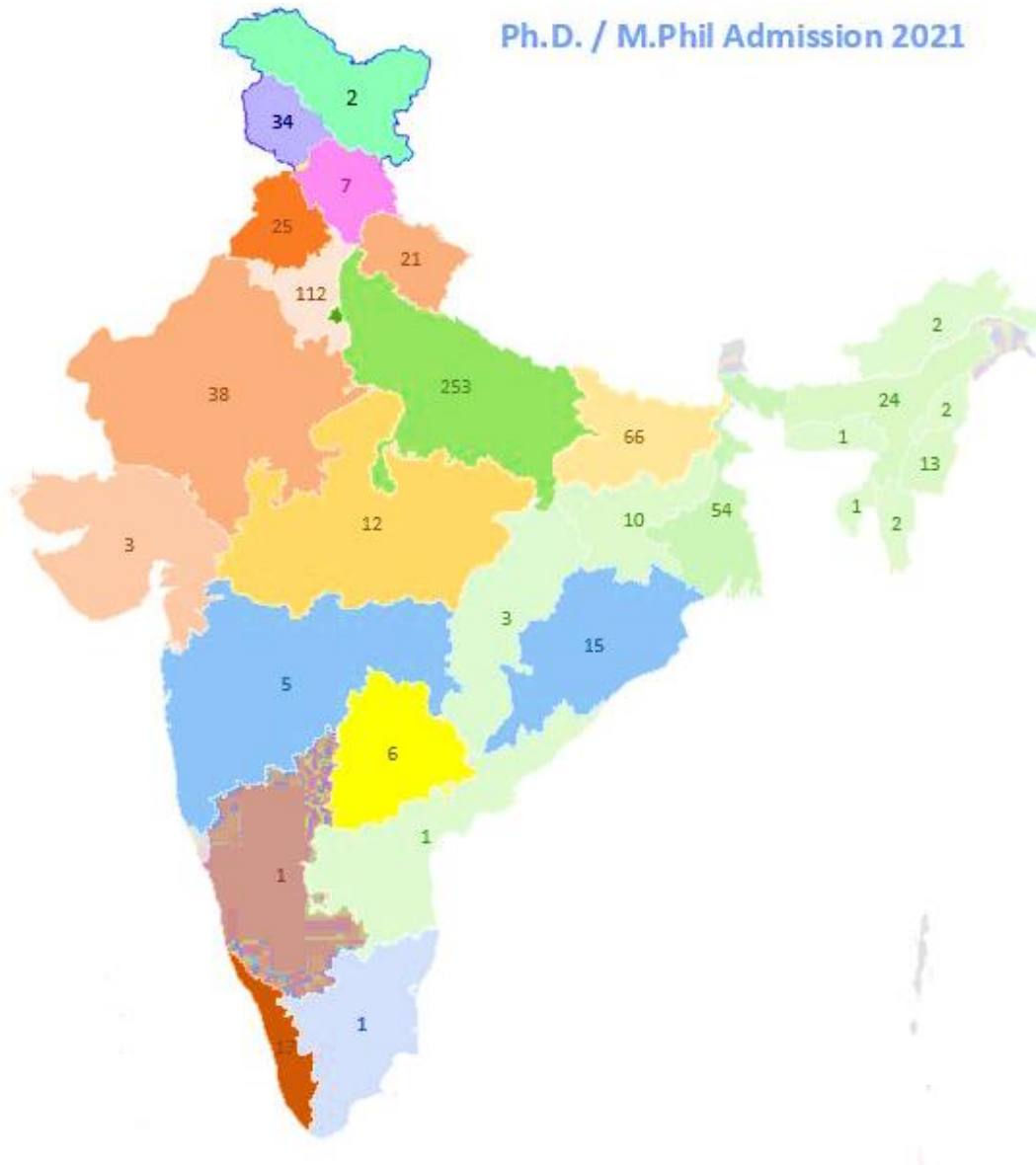




The following visualization is showcasing the regional diversity at the level of Postgraduate courses in the University of Delhi.



The graphic below represents the extent of regional inclusivity in the University of Delhi at the PhD/MPhil level. It testifies to the fact that the University attracts research scholars from most parts of the country which also gets reflected in its quality research output.





Notable Events/Annual Programmes

05.08.2021: The University of Delhi, which is in its Centennial year, signed a Memorandum of Understanding with the University of Ladakh, the youngest University in the country, on 05.08.2021 for a period of five years, to undertake activities of mutual interests.

15.08.2021: 75th Independence Day Celebration & Commemoration of the First Vice Chancellor of University of Delhi.

The 75th Independence Day was celebrated with enthusiasm and fervor in the Vice Regal Lodge of the University, by hoisting the national flag by Prof. P.C. Joshi, the Acting Vice Chancellor of the University, in the presence of other University authorities, officials and staff, rendition of National Anthem and patriotic songs.

The Hon'ble Acting Vice Chancellor congratulated everyone on the occasion of the 75th Independence Day and addressed the gathering. Prof. Joshi emphasized on the need of every person to be a patriot; and in his view, a patriot is one who does one's duty with dedication and selflessness. Stating that the University of Delhi is the pioneer and top University in the country, Prof. Joshi drew attention to the need to save the environment and the role that the University shall play. To take the first step towards saving and nurturing the environment, Prof. Joshi, along with his team, planted trees in the campus.

Further, to commemorate the first Vice Chancellor, Dr. (Sir) Hari Singh Gaur, and celebrate 100 years of glorious existence of the University, Hon'ble Vice Chancellor also inaugurated a grove which is named as 'Dr. (Sir) Hari Singh Gaur Grove'. in the presence of Prof. Balaram Pani, Dean of Colleges, Prof. Suman Kundu, Director South Campus, Dr. Vikas Gupta, Registrar of the University and other officials and staff. The grove will act as reservoir of flora and fauna in course of time.

08.09.2021: A National Conference "Beyond Himalayas" was organized by Centre for Himalayan Studies of the University in partnership with Himalayan Environmental Studies, Conservation Organization (HESCO) and Himalaya University, Dehradun, Uttarakhand.

University of Delhi, through this conference proposed the noble idea of Global Alliance on Himalayas. Union Minister of Law and Justice, Shri Kiren Rijju, Dr. Jitendra Singh Minister of Science & Technology and Earth Sciences and Minister in Prime Minister's Office, Shri Ajay Bhatt, Minister of State for Defence and Tourism, GOI as well as Dr. Ramesh Pokhriyal Nishank, former Union Minister of Education lauded the Centre for Himalayan Studies for its initiative 'Beyond Himalayas'.

While addressing the Conference all the dignitaries said that Centre for Himalayan Studies can play a significant role for conservation of Himalayan bio-resources and sustainable development of the region. Dr. Jitendra Singh also released a book entitled Him Nad: Manav Jeevan ka Adhar, written by Dr. Ramesh Pokhriyal Nishank during the programme.

Prof. Dinabandhu Sahoo, Director, Centre for Himalayan Studies said there should be a Global Alliance on Himalayas beyond the boundaries of Himalayas. He said that plant a tree initiative implemented by the University should be part of every educational institution's curriculum in the country.

99th Foundation Day

The University of Delhi celebrated its 99th Foundation Day on 11.09.2021 at the Convention Hall of the University as it could not be celebrated on its designated day i.e. 01.05.2021 due to a surge of the pandemic during that time. The main focus of the celebration was to honour the Distinguished Alumni who have brought laurels to their alma mater by excelling in their field as well as to felicitate the Awardees of the University who have made outstanding contribution to the University in their spheres of profession.

The Distinguished Alumni of the University who were honoured were Shri Kiren Rijju, Hon'ble Minister of Law and Justice, Hon'ble (Mr.) Justice Inderjeet Mohanty, Chief Justice of Rajasthan High Court, Shri P. K. Mishra, Principal Secretary to the Prime Minister's Office, Shri Manoj Kumar State Election Commissioner, Uttar Pradesh, Dr. Kiran Bedi, Former Lieutenant Governor, Puducherry and Shri Imtiaz Ali, renowned filmmaker.

Shri Amit Khare, Secretary, Higher Education, Ministry of Education and Shri Imtiaz Ali had graced the



programme physically while Shri P. K. Mishra, Principal Secretary to the Prime Minister's Office, Shri Manoj Kumar State Election Commissioner, Uttar Pradesh and Dr. Kiran Bedi, Former Lieutenant Governor, Puducherry graced the occasion via virtual mode.

As many as twenty-nine, teaching and non-teaching, retired and in-service staff were conferred awards under different categories. The highest award of the University i.e. Nishtha Dhriti Satyam Samman was conferred upon Prof. Jitendra P. Khurana and Prof. Pami Dua for exemplary contribution to the development of the University and utmost adherence to its ideals, values and principles.

Prof. Balaram Pani, Dean of Colleges, Prof. Suman Kundu, Director South Campus, Prof. Kavita Sharma Treasurer, Prof. Neeta Sehgal, Proctor, Dr. Vikas Gupta, Registrar, Prof. K. Ratnabali, Dean, Academic Activities and Projects, Distinguished Awardees, Deans of Faculties, and other officials and staff attended the programme.

73rd Republic Day was celebrated on 26.01.2022 in the University with full fervor and zeal.

Martyr's Day was organized on the 75th death anniversary of Mahatma Gandhi in hybrid mode. On this occasion, two minutes of silence was observed and religious prayer was organized at Gandhi Bhavan, University of Delhi on 30.01.2022. The students of the Faculty of Music and Fine Arts presented the favourite bhajans of Mahatma Gandhi as part of the Bhajananjali Programme. Prof. Yogesh Singh Vice Chancellor and Dr. Vikas Gupta, Register, along with other dignitaries paid their heartfelt tributes.

Prof. Ramesh Bhardwaj, Senior Prof. and Director, Gandhi Bhavan, University of Delhi delivered the welcome address. Prof. Shri Prakash Singh Director South Campus, University of Delhi presented his thoughts on Mahatma Gandhi in his address. Hon'ble Vice Chancellor's peace message was very inspiring; he expressed his thoughts about Gandhiji in great detail. The programme was broadcast live on YouTube. It ended with Ram dhun.

International Mother Language day was organized on 21.02.2022.

On the occasion of Azadi Ka Amrit Mahotsav, a lecture

was organized on 24.02.2022 by the University titled "Independence to freedom" in which Shri Mukul Kanitkar, National Organising Secretary, Bhartiya Shikshan Mandal was the chief orator of the programme.

98th Convocation Ceremony

The 98th Convocation of the University was duly organized on 26th February at the Multipurpose Hall of DU Sports Complex. Union Defence Minister Rajnath Singh was present as the Chief Guest in this function while University's Vice Chancellor Prof. Yogesh Singh presided over the function. Digital degrees were awarded for the first time on this occasion. The Union Defence Minister awarded digital degrees to 1,73,443 students on a click of a button through its online system. On this occasion, the Chief Guest in his Convocation address said that values are more important than knowledge in life. Prior to him, Vice Chancellor Prof. Yogesh Singh in the welcome address, thanked all the visitors including the Chief Guest and congratulated the students who were awarded their degrees.

While congratulating all the members of the University on the occasion of the convocation ceremony, the Defence Minister also congratulated and extended best wishes to all the students and their families who were awarded their degrees. In the beginning of the function the Vice Chancellor Prof. Yogesh Singh welcomed everyone and presented the report in this convocation.

The Vice Chancellor informed the august gathering about the Centenary Celebrations of the University starting from 01.05.2022 to celebrate the hundredth year of University's establishment. Along with this, he informed the congregation about the ranking of the University at the global level. He said that under the new education policy NEP-2020, the University is now going to start some new programmes in the field of engineering including B. Tech. Computer Science, B. Tech. Electrical, B. Tech. Electronics, Integrated 5-year BA LLB and BBA LLB.



The Details of Medals/Awards/Degrees/D.M. Etc. Awarded in The Convocation Are as Under:

Total Medals/Prize	:	197
Total No. of Degrees (UG/PG)	:	1,73,443
Male	:	79,641
Female	:	93,726

Total Ph.D. Awarded	:	802
Male	:	363
Female	:	439

Top Three Faculties:

Arts	:	238
Science	:	202
Social Science	:	90

Top Three Departments

Chemistry	:	68
Buddhist Studies	:	43
Physics, Hindi, Sanskrit	:	40

Medical	:	50
Doctor of Medicine (D.M.)	:	26
Magister Chirurgiae (M.Ch.)	:	24

64th Annual Flower Show

The 64th Annual Flower Show of the University, on the theme “Floral diversity and rejuvenation”, was held on 04.03.2022 at the Mughal Garden (opposite the Vice-Regal Lodge), North Campus, University of Delhi.

The event was inaugurated by Honorable Om Prakash Kohli, Former Governor of Gujarat, in the presence of Prof. Yogesh Singh Hon’ble Vice-Chancellor, University of Delhi, Prof. Balaram Pani, Dean of Colleges, Prof. Prakash Singh Director of South Campus, Dr. Vikas Gupta, Registrar, and other dignitaries of the University and beyond.

The University Garden was resplendent with floral exhibits, succulents, cacti, foliage plants, bonsais, etc. that reflected the colours and diversity of spring blossoms and greenery. A number of participants (individuals and institutions) competed in virtual photography and videography competitions, time-lapse rangoli and flower arrangements, celebrating the multi-hued splendour of flowers and foliage. Rolling shields, cups and trophies were awarded to various colleges, hostels/halls, schools and institutions that competed in 35 categories of potted plants, lawns & gardens. A special feature was the award of “Garden

Bandhu” to the Bio-diversity Parks of Delhi Development Authority of Center for Environmental Management of Degraded Ecosystems, as the largest conservation outreach program of University of Delhi. The stupendous efforts of University gardeners (maalis) were recognized and Best Maalis were felicitated for their outstanding service towards upkeep of gardens.

Commemoration of ‘Shaheed Diwas’

The University commemorated the martyrdom of Shaheed Bhagat Singh and his Associates on 23.03.2022 at the Convention Hall, Vice-Regal Lodge. This programme was presided over by the Prof. Yogesh Singh Hon’ble Vice Chancellor and the Chief Guest was Shri Pradeep Deswal, Poet & Author, Netaji Subhas University of Technology.

Shri Pradeep Deswal shared the glimpse of historical and remarkable contribution of Shaheed Bhagat Singh his associates, and their family in the Indian Independence struggle. More than 500 participants attended the programme.

Memoranda of Understanding (MoUs) 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 endeavor, the University has signed up for academic and research collaborations with many institutions globally. In the reporting period, MoUs and Agreements were established with:

- Bath Spa University, UK
- Hong Kong Shue Yan University, Hong Kong
- Ruhr-Universität Bochum CERES, Germany
- Osaka University, School of Languages, Japan
- Korea Foundation Grant Agreement, Korea
- California State University, Fresno, USA
- Mitsubishi Corporation, Japan
- Tunku Abdul Rahman University College (TAR UC), Malaysia
- Sechenov University, Russia
- Skoltech University, Russia
- National Research Lobachevsky State University of Nizhny Novgorod (UNN), Russia
- Hebei International Studies University, Shijiazhuang, China
- Federal University Wukari, Taraba State, Nigeria
- Korea University, Korea (MoU + SEA)
- Land Satellite Remote Sensing Application Centre (LASAC), China



Holy Cross of Davao College, Philippines

Social Outreach

The Social Work Department has established and continued with its two-field action programmes, which have been established over the years to demonstrate the relevance of social work intervention in dealing with social issues and problems. They have functioned as demonstration cum extension projects for the Department and have enabled the Department to strengthen its learning-practice engagements. One such field action programme is the Child Guidance Centre, which was instituted in the year 1971 and which later came to be known as the Centre for Child and Adolescent Wellbeing. Over many years of its functioning, the Centre has only grown from strength to strength. The Department also established a community work-oriented centre called the Gram Mahila Kendra in Burari community in the year 1988. Subsequently this Centre came to be known as the Centre for Community Development and Action. Over the years, this Centre has rendered exemplary community development services, based on participatory community action.

Centre for Community Development and Action (CCDA)

The Centre for Community Development and Action CCDA earlier known as Gram Mahila Kendra is an Extension and Demonstration unit of Department. Its present area of work in Burari is Ajit Vihar. Prof. Sanjoy Roy took over as the Honorary Director in the year 2021.

In the year 2021-22, the activities at the community through CCDA were suspended due to the onset of the pandemic. The Centre is kept alive at the community-Ajit Vihar in Burari through the community members, who had been participating in the activities run by the CCDA in the pre-pandemic times. There is a regular chain of communication maintained by the department with the community representatives.

The major activities undertaken at the Centre in the past include:

Balwadi

The Balwadi program strives to provide formal and informal education to the underprivileged children of the community. The strength of the class is 20. Moral lesson through usage of multimedia, storytelling, recitation, art and craft sessions, activity based

learning is used as a methodology of teaching. Dance therapy and physical fitness through sports day was organized for the children.

Women Group

Women of the community who are largely involved in unorganized sector are brought together through group meetings and discussion on the topic of women safety, domestic violence, health and hygiene etc.

Menstrual Health and Hygiene

This year the focus of work in the community was menstrual health and hygiene of young girls and women. The adolescent girls and women of the community were engaged in demonstrative group discussion pertaining to the healthy and hygienic habits to be followed during the period. Visit to Goonj NGO and understanding their project "Not just a piece of cloth" helped to impart knowledge of making environment friendly cloth sanitary pads to the women. Collaboration with the social workers of Aditi College was established who were working on the same cause. Similar session was also conducted with the young girls of class 6-8th in D.V Tyagi School Burari about menstrual health and hygiene.

Adolescent Girl's Group

The group was involved in co-curricular, recreational activities, discussions and meetings. Career guidance and counseling was also provided to the girls with regard to educational and job opportunities. Two girls were mentored and given assistance that led to their admission in IT courses and jobs.

Diwali Mela

Adolescent girls from the community were encouraged to put up their own stall showcasing decorative products in the Diwali Mela organized in Department of Social Work. This helped them develop enterprising spirit and boost confidence. The profit earned from the sale was utilized for buying stationery for the Balwadi.

Gandhi Jayanti

On the occasion of the 150th birth anniversary of Mahatma Gandhi, a cultural event was organized which cherished the values and principles of nonviolence and truth. MLA of Burari, Mr. Sanjeev Jha was invited to the event which saw a turnover of about 100 people. Cultural events like group dance, songs, poem recitation and art competition was conducted.



School Admission: Parents and children were counseled about enrolment in formal institutes of education. They were also guided with the education process and helped with getting required documents.

Cleanliness of the Community: Need assessment was done regarding clean surroundings and MCD workers and their regularity was assessed. Clogged drains and lack of regular cleanliness as an issue was taken up and letters were written with the help of Pradhan of Ajeet Vihar, other elderly members of the community and girl's group. An online complaint was filed using single point complaint lodging system and grievance was registered at the number 155304, to ensure safe surroundings.

International Women's Day (IWD): The IWD is celebrated with great zeal in the area since last five years. However, this time it has been postponed due to spread of the Covid pandemic. Nevertheless, the children prepared for the programme around the theme of women empowerment and women issues.

Organization of Events: Apart from the above events which were celebrated at a larger scale, several other important days like Teacher's Day, Republic day, Independence Day etc. were celebrated imparting information, spreading awareness and conducting activities with the residents of the community. CCDA also contributed in the organization of Saraswati Puja, a major festival celebrated in Ajit Vihar.

Centre for Child and Adolescent Well Being (CCAW)

Centre for Child and Adolescent Wellbeing (CCAW), earlier known as the Child Guidance Centre works towards providing diagnostic, treatment and referral services to children, adolescents and their family members. It also caters to the neighboring schools and community, focusing on preventive and promotive wellbeing programmes for the children. The Centre trains students from social work profession both from Bachelors and Masters Courses. These students are engaged in neighboring schools to conduct weekly sessions on life skills, family life education and ethical values with children and adolescents. The team of the Centre comprised of Honorary Director, Prof. A. Malathi, full time social worker and one office attendant. The Centre also avails part time services of a Clinical Psychologist, a Speech Therapist and a Special Educator. However, the services of the centre have been suspended in the year 2016 due to lack of funds from the University. A Social Worker was

appointed in July 2018 with a tenure up to July 2019. Because of this, the Centre had to curtail its in-house services and focused on outreach activities instead. The major activities undertaken at the Centre in the past include:

Social Assessment

Social Worker assessed cases and offered psycho-social interventions, maintained records of the clients, organized case conferences. The social worker also organized the visits by the Psychologist for making psycho-social assessment and planning for interventions. 46 clients took the help of the Centre for varying interventions from July 2018 onwards up till September 2019, when the Social Worker post got discontinued.

Psychological Assessment

An Assessment service is offered to clients to aid their psychological development. The Clinical Psychologist administers various tests on clients (children) to assess their Intelligent Quotient, Mental Age, level of social maturity, behaviour. After examining their condition, the Centre tries to intervene at three levels- individual level, family level and school level to benefit the client in the positive manner.

Services at the Communities

To meet the objective of promoting well-being of the children and adolescents, the Centre has extended its services in Majnu ka Tilla, and Aruna Nagar communities. Social Work student trainees extended the services of the Centre in the community through non formal education activities for school dropouts/ out of school children, life skills for boys and adolescent girls, health sessions with pregnant mothers etc.

A Needs Assessment of 140 families was undertaken (from January to March 2020) with the guidance provided by the department supervisor for identifying the pressing needs of the community. The students took up the initiative in right earnest and the community participated enthusiastically. Distribution of clothes to the community by the trainees after cloth collection, sorting and distributing as per the needs of the households, was also undertaken.

It may also be noted that the social worker's position was not renewed since July 2019. The outreach activities as well as the various other in-house



activities like counseling and follow up on cases was stopped due to the nation-wide lockdown since March 2020. These could not be revived in the year 2021-22 due to the COVID -19 protocols. These may be resumed once favorable conditions exist including the Covid-19 situation and the appointment of social worker at the Centre.

Placement Activities

The Central Placement Cell (CPC) acts as an interface between industry and academia. It continuously organizes various recruitment drives, Internship and capacity building as well as skill enhancement sessions for the students of our esteemed University.

In the academic session 2021-2022, the CPC facilitated online and offline recruitment of companies from various sectors such as IT, Infrastructure, Education and Sports. Some of the companies participating in the recruitment drives this year were Agnext Technology

Private Limited, JCO Gas Pipe Limited, Back Benchers, Experts' Global Training Services, Amazon India, Burger Singh Bird Worldwide Flight Services (India) Pvt. Ltd., CourseLeap Education etc.

The Central Placement Cell was also instrumental in providing paid and unpaid internship opportunities to students as per their requirements. The year 2021-2022 was historical for the Central Placement Cell as it organised Job Mela from 07.04.2022. to 09.04.2022 and the response of the students as well as companies in this job mela was spectacular.

The Central Placement Cell had organised an online orientation cum counseling session on 26.03.2022 from 2 pm to 5 pm on CV writing and Time Management which was attended by stakeholders enthusiastically.

Equal Opportunity Cell

The Equal Opportunity Cell (EOC) of the University did its best to support students with disabilities through multiple activities inspite of the recurrence/ spread of the COVID-19 pandemic from 01.04.2021 to 31.03.2022. EOC kept its office open to support needy students in difficult times and spread awareness and encouraged students to take vaccination against Covid. It also made arrangements for Covid appropriate behavior including distribution of masks among students and visitors, installation of sanitizers at various locations regular sanitization of the building. Therefore, much of Cell's work during the period under report was targeted toward supporting needy students in meeting these special challenges. The salient details are given below:

Volunteer Support

The EOC provided need-based volunteer support to students with disabilities for academic purposes. In addition, despite COVID-19 restrictions, as many as 2108 volunteer hours were utilized at the EOC from April 2021 - March 2022. This support has rendered significant help to students with disabilities in terms of many online and offline services such as online counseling, writing, scanning of books, e-conversion of texts, filling up online forms, etc.

Conversion of Reading Materials in Accessible Format

The creation of accessible reading material in the University largely depends on volunteer support. Adequate volunteers were due to COVID-19 restrictions, the EOC, nonetheless continued to create more accessible reading material with the help of an NGO called Saksham Trust. Thus, nearly one lakh pages were added to our collection of accessible reading materials.

Admissions

As the admission process was completely contactless and online, more specific support was required by colleges and applicants as far as students with disabilities were concerned. Continuous online counseling and support were provided to students with disabilities to resolve their queries and difficulties seeking admission to various courses of the University during the period under report.

Centre of Disability Studies:

The Equal Opportunity Cell has actively coordinated for setting up of the Center for Disability Studies. The Executive Council of the University approved the setting up of the Centre for Disability Studies vide



ordinance 20Q of the ordinances of the University. Prof. Anil K. Aneja has been appointed as the Director and Prof. Bipin K. Tiwary as the Officer on Special Duty (OSD) of the Centre for Disabilities Studies.

KEBO Camera-Scanner

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

In keeping with its commitment to creating an inclusive environment in the University, the EOC hopes to further expand its activities in the coming year.

Initiatives Under the Right to Information Act

The University is functioning with complete observance of all the relevant provisions of the RTI Act 2005 and the rules framed thereafter from time to time. It is actively involved in the disclosure of maximum possible information in the public domain, encompassing almost all the areas of activity concerning the students, employees and various other stakeholders.

Information is disseminated by the University through various means which includes disclosure of information through its website, information handbook, prospectus for various courses of study, public notices, and press releases, various pamphlets, booklets, hand-outs etc. from time to time, in order to keep all the stakeholders informed about the developments of the University on a regular basis. Therefore, the University is at the forefront when it comes to observance of transparency and accountability, leading to good governance in an academic institution.

All the above systematic efforts are appropriately channelized through a well-structured and consistently updated mechanism of information dissemination for the public.

During the year 2020-21, the University received 2407 Original Applications and 405 First Appeals which were decided as per relevant provisions of the RTI Act. During this time, 28 Second Appeals before the Hon'ble Central Information Commission were also successfully defended by the University.

Sports Distinctions

Position at International Competitions/Tournaments

Yash Dhull, a student of the University of Delhi captained the Indian Cricket U-19 Team in the ICC U-19 World Cup, West Indies held from 14.01.2022 to 05.02.2022. The Indian Cricket U-19 Team won the World Cup.

Yash Dhull, student of the University of Delhi captained the Indian Cricket U-19 Team in the ICC U-19 Asia Cup, UAE held from 23.12.2021 to 31.12.2021. The Indian Cricket U-19 Team won the Asia Cup.

Manu Bhaker, student of the University of Delhi won the Gold Medal in the 10 Mtrs. Air Pistol Mixed Team events in the International Shooting Sport Federation (ISSF) President's Cup at Wroclaw (Poland) held from 03.11.2021 to 10.11.2021.

Position at Inter University Competitions/Tournaments

Tanishdeep Singh in Archery Men's Team won Individual Gold Medal in Compound Round Event in the All India Inter University Archery Men's Tournament 2021-22 held from 24.02.2022 to 28.01.2022 at Chandigarh University, Mohali (PB).

Vidhan Kumar in Judo Men's Team won Individual Gold Medal in +100 kg. weight category in the All India Inter University Judo Men's Tournament 2021-22 held from 25.03.2022 to 27.03.2022 at Chhatrapati Shahuji Maharaj University, Kanpur (UP).

Manu Bhakar in Shooting Women's Team won Individual Gold Medal in 25 Mtrs. Sports Pistol Event in the All India Inter University Shooting Women's Tournament 2021-22 held from 31.03.2022 to 03.04.2022 at Manav Rachna International Institute of Research Studies, Faridabad (HR).

Aadya Tripathi in Shooting Women's Team won Individual Gold Medal in Trap Event in the All India Inter University Shooting Women's Tournament 2021-22 held from 07.04.2022 to 09.04.2022 at Manav Rachna International Institute of Research Studies, Faridabad (HR).

Paarth Makhija, Samarvir Singh & Shivansh Saini in Shooting Men's Team won Team Gold Medal in 10 Mtrs. Air Pistol Event in the All India Inter University Shooting Men's Tournament 2021-22 held from



12.04.2022 to 15.04.2022 at Swami Vivekanand Subharti University, Meerut (UP).

Manu Bhakar, Varsha Singh and Payal in Shooting Women's Team won Team Gold Medal in 25 Mtrs. Sports Pistol Event in the All India Inter University Shooting Women's Tournament 2021-22 held from 31.03.2022 to 03.04.2022 at Manav Rachna International Institute of Research Studies, Faridabad (HR).

Varda Sharma Aadya Tripathi and Kirti Gupta, in Shooting Women's Team won Team Gold Medal in Trap Event in the All India Inter University Shooting Women's Tournament 2021-22 held from 07.04.2022 to 09.04.2022 at Manav Rachna International Institute of Research Studies, Faridabad (HR).

Manu Bhakar, Varsha Singh and Alka Singh in Shooting Women's Team won Team Gold Medal 10 Mtrs. Air Pistol Event in the All India Inter University Shooting Women's Tournament 2021-22 held from 09.04.2022 to 12.04.2022 at Swami Vivekanand Subharti University, Meerut (UP).

Sagar Chopra in Archery Men's Team won Two Individual Silver Medals in Compound Round 50 Mtrs. Event and Elimination Round Event in the All India Inter University Archery Men's Tournament 2021-22 held from 24.02.2022 to 28.02.2022 at Chandigarh University, Mohali (PB).

Harsh Singh in Judo Men's Team won Individual Silver Medal in 66 kg. weight category in the All India Inter University Judo Men's Tournament 2021-22 held from 25.03.2022 to 27.03.2022 at Chhatrapati Shahuji Maharaj University, Kanpur (UP).

Jyoti Tokas in Judo Women's Team won Individual Silver Medal in 78kg weight category in the All India Inter University Judo Women's Tournament 2021-22 held from 22.03.2022 to 24.03.2022 at Chhatrapati Shahuji Maharaj University, Kanpur (UP).

Paarth Makhija in Shooting Men's Team won Individual Silver Medal in 10 Mtrs. Air Rifle Event in the All India Inter University Shooting Men's Tournament 2021-22 held from 12.04.2022 to 15.04.2022 at Swami Vivekanand Subharti University, Meerut (UP).

Varun Dubey, Harsh Gupta, and Shaurya Sarin in Shooting Men's Team won Team Silver Medal in 10 Mtrs. Air Pistol Event in the All India Inter University Shooting Men's Tournament 2021-22 held from 12.04.2022 to 15.04.2022 at Swami Vivekanand Subharti University, Meerut (UP).

Varsha Singh in Shooting Women's Team won Individual Silver Medal in 10 Mtrs. Air Pistol Event in the All India Inter University Shooting Women's Tournament 2021-22 held from 09.04.2022 to 12.04.2022 at Swami Vivekanand Subharti University, Meerut (UP).

Shivam, Shayan Sharma and Tushar Kalyan in Gymnastics Men's Team won Three Individual Bronze Medals in Pommel Horse Event, Horizontal Bar Event & All Round in the All India Inter University Gymnastics Men's Tournament 2021-22 held from 23.03.2022 to 25.03.2022 at Guru Nanak University, Amritsar (PB).

Mehak Preet Kaur in Gymnastics Women's Team won Individual Bronze Medal in Clubs Event in the All India Inter University Gymnastics Women's Tournament 2021-22 held from 29th to 31st March 2022 at Guru Nanak University, Amritsar (PB).

Harsh Tokas in Judo Men's Team won Individual Bronze Medal in 73 kg. weight category in the All India Inter University Judo Men's Tournament 2021-22 held from 25th to 27th March 2022 at Chhatrapati Shahuji Maharaj University, Kanpur (UP).

Ashima Ahlawat in Shooting Women's Team won Individual Bronze Medal in Shotgun Trap Event in the All India Inter University Shooting Women's Tournament 2021-22 held from 07th to 09th April 2022 at Manav Rachna International Institute of Research Studies, Faridabad (HR).

Harsh Rana in Wrestling Men's Team won Individual Bronze Medal in 97 kg. weight category in the All India Inter University Wrestling Men's Tournament 2021-22 held from 07th to 10th March 2022 at Chaudhary Bansi Lal University, Bhiwani (HR).

Rashi Mittal and Samarvir Singh in Shooting Mixed Team won Team Mix Bronze Medal in 10 Mtrs. Air Rifle Event in the All India Inter University Shooting Men's & Women's Tournament 2021-22 held from 12th -



15th April 2022 at Swami Vivekanand Subharti University, Meerut (UP).

Abdurrahman, Jaideep Singh Sethi, Prithvi Singh Sindhu, Tejas Chawala, Didar Joshua Joseph Rebello & Kabir Mario Dominic Rebellow in Squash Men's Team won Team Gold Medal in the All India Inter University Squash Racket Men's Tournament 2021-22 held from 23rd to 25th March 2022 at Gurukul Kangri (Deemed to be University) Haridwar (UK).

Sneha, Seema, Sujata, Vidhi Dogra, Dipti, Yogita Sharma Sandhya Gautam, Poonam, Gayatri, Bhawna, Shreya, Yashasvi Chaudhary, Koma IKataria, Isha, Bulbul and Ruby in Softball Women's Team won Team Bronze Medal in the All India Inter University Softball Women's Tournament 2021-22 held from 10th to 14th March 2022 at Deenbandhu Chhotu Ram University of Science & Technology, Murthal (HR.).

Palkin Kaur, Abiramasr Nidhi G., Tanish Kakotia, Srimathi R., Medha Chauhan and Arushi Kotwal in Chess Women's Team won Team Gold Medal in the North Zone Inter University Chess Women's Tournament 2021-22 held from 14th to 16th March 2022 at Bundelkhand University, Jhansi (UP).

Students who represented University of Delhi in the North Zone Inter University Tournaments (NZIUT) 2021-2022 in Men's and Women's are mentioned below

Chess (Men & Women):

Akshat Negi, Snehil Deota, Lokesh Hans, Dravv Jain, Aryan Garg Ansh Bhargava, Palkin Kaur, Abirama Srinidhi G, Tanishka Kotia, Srimathi R, Medha Chauhan and Arushi Kotwal.

Handball (Men):

Nitin Mann, Anuj Sharma Karan Singh Tushar Singh Ritik Raman, Garv Asrani, Sushant Sindhu, Shubham Sindhu, Harsh Kumar Shivam Kumar Patel, Sandeep Yadav, Amit, Surya Pratap Yadav, Kunal, Rahul Mor and Sehdev.

Hockey (Men):

Praveen Munda, Nakul, Md. Sarfaraz, Rahul Jha, Sheshnath, Abhishek Kumar Virender Pal, Vikas, Amar Verma, Tanmay Kaushik, Gurmukh Singh Md. Altaf, Gagan Kumar Yadav, Parveen, Harsh Tewatia, Priyanshu Mehta, Kushal Gahlawat and Mohit Rana.

Students who represented University of Delhi in the All India Inter University Tournaments (AllIUT) 2021-2022 in Men and Women are mentioned below:

Archery (Men & Women):

Madhur, Tanish Deep Singh Harnoor Singh Sagar Chopra, Monu Kumar Dhruv Bagga, Manish Bhati, Shivam Kumar Tejaswani, Riya Dagar, Subbiksha V K, Manvi Singh Breena Sharma Rishika, Ayushi and Shweta Singh.

Baseball (Men):

NeerajNegi, Yogesh, Kuldeep Singh Krish, Vishal, Shivender Kumar Sharma Amrit Pal Singh Vaibhav Ji, Vikash Maurya, Sumit Kumar Harsh, Ayush Rawat, Sunny, Ajmal Khan, Md. Raju and Nilesh Singh.

Chess (Men & Women):

Akshat Negi, Snehil Deota, Lokesh Hans, Dravv Jain, Aryan Garg Ansh Bhargava, Palkin Kaur, Abirama Srinidhi G, Tanishka Kotia, Srimathi R, Medha Chauhan and Arushi Kotwal.

Gymnastics (Men & Women):

Shayan Sharma Lakshya Sharma Tushar Kalyan, Shivam, Amit Rana, Jitender, Ankit, Nidhi Saini Ayushma Saherawat, Km. Kiran Yadav, Paridhi Jain, Srishti Manchanda, Aarti Rana, Mehak Preet Kaur and Simran Singh.

Judo (Men & Women):

Harsh Tokas, Vidhan Kumar Sushant Malik, Yash, Harsh Singh Jatin Tokas, Yash Kumar Chauhan, Aakansha Choudhary, Swaita, Isha, Jyoti Tokas, Prerna Tokas, Kajal and Kanika Singh.

Netball (Women):

Barkha Tyagi, Prachi, Ekagrata Vats, Sanjana Chaudhary, Kajal Tyagi, Ritu, Rudrika Rawat, Khushboo Dixit, Neetu, Khushi Kumar Mansi Tyagi and Riya Srivastav.

Shooting (Men & Women):

Harsh Gupta, Suryansh Singh Daksh Singh Pratham Rajput, Kabir Sharma Bhuvneshwar Singh Rathore, Varun Dubey, Shaurya Sarin, Paarth Makhija, Samarvir Singh Shivansh Saini Arpit Kumar Manu Baker, Ashima Ahlawat, Varda Sharma Tamanna, Aadya Tripathi, Sanjana Sood, Kirti Raj Rathore, Payal, Varsha



Singh Kirti Gupta, Dharini Sharma Rashi Mittal, Ramita, Kanchan, Sanchita and Alka Singh.

Softball (Women):

Sneha, Seema, Sujata, Vidhi Dogra, Dipti, Yogita Sharma Sandhya Gautam, Poonam, Gayatri, Bhawna, Shreya, Yashasvi Chaudhary, Komal Kataria, Isha and Bulbul, Ruby.

Squash (Men):

Abdur Rahman, Jaideep Singh Sethi, Prithvi Singh Sindhu, Tejas Chawla, Didar Joshua Joseph Rebello and Kabir Mario Dominic Rebello.

Taekwondo (Men & Women):

Anmol Yadav, Deepak Yaduvanshi, Umang Sharma Sagar, Prithvi Chakma, Chaitanya Keshav, Pritam Malik, Vivek Prasad, Pinky, Vanshika, Muskan Maheshwari, Trisha Khajuria, Shreya Rani, Ayushi Thangwal, Harshita Tomar and Hansika Singh.

Weightlifting (Men):

Nikhil Bhogal, Zaheer Khan and Arjun Sharma.

Wrestling (Men & Women):

Abhijeet Kumar Sahil Tripathi, Sudhir Nehra, Maninder Solanki, Manjeet Dahiya, Jatin, Rohan Tomer, Ravinder, Harsh Rana, Paramjeet Bishnoi, Kirti, Simran Pawar, Shalini Verma, Muskan, Manju, Kumkum Dhanges, Swati, Prachi Dhama, Mehak and Khushi.



Global Linkages - List Of Countries

Students from these countries (55) took admission in the University of Delhi in 2015-16 in various programs.

Afghanistan	Laos	Sri Lanka
Australia	Libya	Sudan
Bangladesh	Madagascar	Syria
Bhutan	Malaysia	Taiwan
Brazil	Maldives	Tajikistan
Canada	Mauritius	Tanzania
China	Mexico	Thailand
Congo	Mongolia	Tibet
Denmark	Mozambique	Trinidad & Tobago
Ethiopia	Nepal	Uganda
Egypt	Niger	U A E
Gambia	Nigeria	United Kingdom
Great Britain	North Korea	United States
Indonesia	Philippines	Uzbekistan
Iran	Rwanda	Vietnam
Iraq	Singapore	Yemen
Ireland	Somalia	Zambia
Japan	South Africa	
Kenya	South Korea	



FACULTY AWARDS/HONOURS

The academic endeavour of the faculty members is naturally reflected in the receipt of prestigious awards, honours, accolades, both at the national and international spheres. A glimpse of it is presented below but the list is non-exhaustive and does not in any way capture the full spectrum of the academic achievements of the faculty members.

Departments

Dr. Chakraverti Mahajan, Department of **Anthropology** was selected for Charles Wallace Fellowship (2021-2022) Queen's University, Belfast.

Dr. Shivani Ghildiyal, **All India Institute of Ayurveda**, was awarded FITM Post-Doctoral Research Fellowship on 22nd April 2021 for the proposal entitled "Survey and Study of Traded Crude Classical Ayurvedic Medicinal Herbs in Crude Drug of Markets of New Delhi, Rishikesh and Amritsar". She was also awarded with the Distinguished Scientist Award on Engineering Science and Medicine 28th to 29nd August 2021 at Trivandrum.

Dr. Rajagopala S **All India Institute of Ayurveda**, was awarded with "Bhishak Bhooshan Puraskaram" for Lifetime achievements by Vagbhatasarani on the occasion of Dhanwanthari Jayanthi Day.

Prof. Rupam Kapoor Department of **Botany**: Guest Editor Special theme 2022 "Arbuscular Mycorrhiza-Mediated Augmentation of Plant Secondary Metabolite Production" Frontiers in Plant Science – Plant Symbiotic Interactions; Additional Secretary (2021-25), International Society of Plant Morphologists.

Prof. Yashwanti Mudgi Department of **Botany**: Guest Editor Special theme 2022 "Abiotic Stress and Plant Immunity" Frontiers in Plant Science – Plant Membrane Traffic and Transport

Dr. Ajay K. Singh, Department of **Commerce** was conferred the title of Honorary Professor of John Von Neumann University, Hungary in June 2021.

Prof. Aditya Bhattacharjea, Department

of **Economics**: Distinguished Fellow (Non-Resident, Honorary) Indira Gandhi Institute of Development Research (IGIDR).

Prof. Shreekant Gupta, Department of **Economics**: President, Indian Society for Ecological Economics Somanathan, Rohini; Fellow of the Econometric Society; Fellow of the International Economics Association (IEA).

Prof. Pami Dua, Nishtha Dhriti Satyam Samman Department of **Economics**, University of Delhi 2021 (highest honour); Distinguished Fellow (Non-Resident, Honorary) Indira Gandhi Institute of Development Research (IGIDR).

Dr. Haris Qadeer, Department of **English**, Visiting Fellowship to King's College, London (Charles Wallace India Trust) 2022.

Prof. Rimli Bhattacharya Department of **English**, NEH Collaborative Research Grant for the Victoria Memorial Hall (VMH) project: From 2021 to 2023. Principal Investigators Romita Ray (project director), Syracuse University; Tim Barringer, Yale University; Jayanta.

Prof. Inderjit Singh, Department of **Environmental Studies** has been elected Fellow of Indian National Science Academy (FNA, INSA), New Delhi India.

Dr. Bharat G, Department of **Environmental Studies** has been awarded CSIR-Technology award by CSIR on 26th September 2021 for developing high rate biomethanation technology.

Prof. Pradeep Kumar Burma, Department of **Genetics** has been selected as a member, Task force on SERB-IRHPA National Biosafety Level 3 facilities (BSL/ABSL 3).

Prof. Tapasya Srivastava, Department of **Genetics** has been elected as a member National Academy of Medical Sciences and was awarded SERB-POWER grant Award in 2022.

Prof. S.C. Rai Department of **Geography**: Member of the Joint National Committee for International Union of Geodesy and Geophysics (IUGG) and International Geographical Union (IGU), Indian National Science



Academy (INSA), Department of Science and Technology, Government of India. He was also nominated Honorary President of the Centre for Military Historical Geography of the Republic of Moldova for the Development of Moldovan-Indian Scientific Relations.

Prof. G. V. R. Prasad, Department of **Geology** Awarded Fulbright-Nehru Academic & Professional Excellence Fellowship for six months to undertake research at the University of Chicago, Chicago, USA; Awarded Sepkoski Grant 2020 by the Paleontological Society, McLean, USA.

Prof. Anupam Chattopadhyay, Department of **Geology**, Expert Member, SERB-IRHPA Committee for promoting research in high-priority areas of Earth and Atmospheric Sciences.

Prof. Devesh K Sinha Department of **Geology**, Member – SERB DST Committee on Start-up Grant and NPDP.

Prof. N. C. Pant, Department of **Geology** (i) Deputy Chief Officer, Geosciences Group of the Scientific Committee on Antarctic Research (SCAR) (2017-2020). (ii) Chairman, INSA Committee on SCAR. (iii) Member, Research Advisory Committee, National Centre for Polar and Ocean Research, Goa.

Dr Sabrina Sareen, Department of **Home Science**: International Education Excellence Award conferred by Centre for Professional Advancement, Regd. under NITI Aayog, Govt. of India, 2021.

Prof. (Dr.) Usha Tandon, Campus Law Centre was re-nominated as Member, Delhi State Legal Services Authority from 03.03.2020 to 02.03.2022; Member, Legal Education Committee, Bar Council of India, 2022.

Prof. Tanmoy Bhattacharya Department of **Linguistics** was appointed Chairperson, Expert Committee on development of training program on Indian Sign Language, by the Rehabilitation Council of India.

Prof. Shobha Satyanath Department of **Linguistic** was Nominated as Member of the scientific committee for Sociolinguistic Symposium [SS24] and Scientific review Committee [SS24] Ghent

University; Nominated as a Member, Regional Advisory Committee GLOCAL (The global council on anthropological linguistics) at SOAS, University of London. She is also an editorial board member of the Journal of Sociolinguistics [JSLX], Wiley.

Prof. Monica Singhanian **Faculty of Management Studies**: Accountancy Fellowship (Worshipful Company of Chartered Accountants in England and Wales), Association of Commonwealth Universities Virtual Research Fellowship, United Kingdom, 2021-22.

Prof. Swati Saha, Department of **Microbiology** was elected Fellow of the National Academy of Sciences, India (NASI) in 2021 for pioneering work involving the Molecular and Cell Biology of Leishmania parasites.

Prof. Rajeev Kaul Department of **Microbiology** was elected to the fellowship of the 'Indian Virological Society' with effect from 01-Jan-2022.

Prof. Rajeev Kaul Department of **Microbiology** was conferred with the 'IVS Fellow Award' during the annual conference of the society VIROCON-2021 held at AIIMS Hyderabad on 26th March 2022.

Prof. Rajinder Kumar and Prof. Aleem Ashraf Khan, Department of **Persian**, were awarded Saadi Award by the Saadi Foundation Tehran Iran.

Prof. Paramjit Khurana, Department of **Plant Molecular Biology**, awarded Professor Har Swarup Memorial Medal (2021) by the Indian National Science Academy (INSA) for the year 2021.

Dr. SPK Jena, Department of **Psychology**, received the Dr. H. N. Murthy Oration Award, for Contribution to Behavioural Medicine, Indian Association of Clinical Psychologists, 28, May 2021.

Prof. Brajesh Chandra Choudhary, Department of **Physics & Astrophysics**: Member, Expert Committee, Department of Science and Technology (DST), Govt. of India, for reviewing research projects for award of scientific grants (2020-2021); Member, Mega Science Vision 2035; Member, Mega Sciences (Blue Sky) Committee to formulate Science, Technology and Innovation Policy 2020 (STIP-2020); Co-convener, SNOWMASS 2022 (USA).



Prof. Patrick Das Gupta Department of **Physics & Astrophysics**: President, Indian association of General Relativity and Gravitation (IAGRG) (continuing from 2020).

Prof. Samit Kr. Mandal, Department of **Physics & Astrophysics**: Member, Committee for updating equivalent discipline for recruitment, Defence Research & Development Organization (DRDO) (2018 onwards). Member, Planning Committee, SERB School on Nuclear Physics (2018 onwards). Member (with voting right), NUSTAR Council, FAIR-NUSTAR project, GSI, Darmstadt, Germany (2018 onwards). Co-convenor, FAIR-NUSTAR-INDIA Collaboration (2017 onwards). Member, Expert committee, SERB High-Risk High Reward Research (HRHR) (2017 onwards).

Prof. Shyama Rath, Department of **Physics & Astrophysics**: Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics (2020-2021). Member, Selection Committee, CSIR-SRF and RA (2020-2021). Member, Evaluation Committee, DST PhD Inspire Awards (2020-2021).

Prof. H.P. Singh, Department of **Physics & Astrophysics**: Member, DST-JSPS, Indo-Japan Science Council (2016 onwards).

Prof. Awadhesh Prasad, Department of **Physics & Astrophysics**: Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics (2020-2021). Member, Student Research Committee, Department of Applied Physics, Delhi Technological University, Delhi (2020-2022).

Prof. Rekha Saxena, Department of **Political Science**: Appointed as a member of the scientific committee for the international conference on Federalism held on May 24, 2022, in Paris by the

School of Advanced Studies in Social Sciences (EHESS), Paris.

Prof. Rekha Saxena, Department of **Political Science**: Nominated as a member of the editorial board of Indian Journal of Elections, published by Election Commission of India, New Delhi.

Prof. M. M. Chaturvedi, Department of **Zoology** Member, Indo Australia Biotechnology Forum Review Board, Department of Biotechnology, Govt. of India, New Delhi (2021).

Prof. Rina Chakrabarti, Department of **Zoology** Member of the Technical Expert Committee on "Aquaculture and Marine Biotechnology" of Department of Biotechnology, Government of India, New Delhi 2018 - 2021; Reviewer of Research Projects of Department of Science and Technology, DST, Govt. of India; Department of Biotechnology, DBT, Govt. of India; Indian Council of Agricultural Research, ICAR, Govt. of India; Council of Scientific and Industrial Research, CSIR, Govt. of India.

Prof. R. K. Seth, Department of **Zoology**, Advisor, Ministry of Environment and Forests, Govt. of India.

Prof. Rita Singh, Department of **Zoology**, LE STUDIUM Visiting Researcher award, from LE STUDIUM Scientific Council, LE STUDIUM LoireValley Institute for Advanced Studies 1, rue Dupanloup-45000 Orléans, France; Chairperson DBT- INDO-UK Newton Bhabha Fund for research collaborations from 2018 -2021.

Prof. Alok Chandra Bharti, Department of **Zoology** Reviewer of Funding Agencies: Department of Biotechnology (Govt. of India); Department of Science and Technology (Govt. of India); Indian Council of Medical Research, (Govt. of India); Council of Scientific and Industrial Research, (Govt. of India); Central Council of Research in Homeopathy (AYUSH, Govt. of India); Technology Development Board, (Govt. of India); Kerala State Council for Science, Technology & Environment.

CENTRES

Inderjit Singh **Centre for Environmental Management of Degraded Ecosystems (CEMDE)** won the Humboldt Research Award by the Humboldt Foundation,

Germany, April 2022 representing the amount of Euro 60,000.



Inderjit Singh **Centre for Environmental Management of Degraded Ecosystems (CEMDE)** elected Fellow of Indian National Science Academy (FNA, INSA), New Delhi India, effective from 1 Jan 2022.

Centre for Genetic Manipulation of Crop Plants SERB-National Science Chair awarded to Prof. Deepak Pental, May 2022

Centre for Genetic Manipulation of Crop Plants INSA Senior Scientist awarded to Prof. A. K. Pradhan, Sep 2021

Centre for Innovation in Infectious Disease Research, Education, and Training (Ciidret) Dr. Vijay Chaudhary is NASI Platinum Jubilee Senior Scientist at CIIDRET; Member of IP & Tech. Management Advisory Committee-BIRAC; Mentor, Nexus @ American Center, New Delhi; Co-Chairman of the DBT Task Force on

“Infectious Disease Biology”; Co-Chairman of the DBT NER Technical Expert Committee (TEC) Medical Biotechnology-II; Member of Scientific & Technical Appraisal & Advisory Group (STAG), Medical Biotechnology, DBT; Member of Scientific & Technical Appraisal & Advisory Group Medical Biotechnology, DBT NER; Member, DBT Expert Group on Technology Transfer Organization (TTO).

Professor Maharaj K. Pandit, **Centre for Interdisciplinary Studies for Mountain & Hill Environment**, International Member of the American Academy of Arts & Sciences; Ngee Ann Kongsi Distinguished Visiting Professor, National University of Singapore; Indian (INSA) representative at BRICS Academy of Sciences; Indian (INSA) representative at G20 Science Academies.

Dr. Anshul Singh **ANAESTHESIOLOGY, CRITICAL CARE AND PAIN MEDICINE (UCMS)** Dr Kusum Pandit Memorial award at UCMS for Best scientific paper in the year 2021

Dr Vibhor Gupta **ANAESTHESIOLOGY, CRITICAL CARE AND PAIN MEDICINE (UCMS)** Medical excellence award by Delhi Medical Forum for fight Against covid-19.

Dr. P Ganjoo **ANAESTHESIOLOGY (GIPMER)**: Chairperson Education, Training and Research Committee, Indian Society of Neuroanaesthesiology and Critical Care (ISNACC).

Dr. S Virmani **ANAESTHESIOLOGY (GIPMER)**: FIACTA teacher accreditation for Cardiac-thoracic Anaesthesia.

Dr. AH Choudhuri **ANAESTHESIOLOGY (GIPMER)**: Received Dr. Sarvapalli Radhakrishnan Distinguished Professor Award 2021 in Anesthesiology & Incredible Academicians & Researchers of India 2021.

Dr. Namita Kalra **DENTAL SCIENCES (UCMS)** Fellowship of National Academy of Medical Sciences

Dr Bhavishya Shetty **DERMATOLOGY (MAMC)** received 3rd prize in e-poster in Annual cuticon, 2021 and was declared 1st runner up in the zonal round-North zone Torrent Young scholar Award Dermatology, 2021.

Dr. Prabhav Aggarwal, **MICROBIOLOGY (MAMC)** Associate Professor: Awarded “Dr. S.R. Sengupta – Dr. A.M. Saoji Memorial Prize – 2021” for best paper in Immunology for paper titled “Utility of Fecal Calprotectin as biomarker in pediatric acute infectious diarrhea”, (co-author) poster presented by Dr. Masson Nathani (Senior Resident, Microbiology) at 44th National Conference of Indian Association of Medical Microbiologists held at Guwahati on 21.12.2021 to 24.12.2021.

Prof. Anuradha Chowdhary Department of **Microbiology (VPCI)** Elected Fellow, International Society of Antimicrobial Agents & Chemotherapy, 2021; Highly cited Researcher by Web of Science/Clarivate 2021 list of the 1 percent most cited scientists of the past ten years; \Secretary, European Fungal Infection Study Group (EFISG) of European Society of Clinical Microbiology & Infectious Diseases.

Dr Sanjeev Khanth P.E **PHARMACOLOGY (MAMC)** has received the second prize for presentation at 3rd National Biomedical Research Competition jointly



organised by AIIMS-Rishikesh, JNU-Delhi, PGI-Chandigarh, NIPER-Mohali, CDRI-Lucknow, IITR-Lucknow, and AIIMS-Jodhpur, 15th December-2021.



DEPARTMENTS

Faculty of Applied Social Sciences and Humanities

Department of Finance and Business Economics

Brief History

In 1973, the Department of Business Economics, pioneered a Masters Program in Business Economics, combining the fundamentals of economic analysis with the practical aspects of the business world.

With its illustrious history of 48 years, the Department boasts of its strong alumni base gleaming like stars all over the corporate skyline. The Department has also fostered strong alliances with big corporate houses and has retained its position as their preferred recruitment destination.

Major Activities and Achievements

Alumni Meet: The Department organized its Annual Alumni Meet on 2021, October 09. The Meet was organized virtually. About 100 students from all over the world participated and shared their corporate experience with the faculty and students of the department.

The Department organized the 34th Annual Convention of MBA (Finance) this year which was held virtually on October, 2021 with the theme of the event being "Next Evolution in Finance". The Opening Ceremony started with a Panel Discussion on "Financial Technology in India: Adoption, Growth & Changing Business Environment. The Panel consisted of Mr. Amit Tewari, Co-Founder & CEO, 4Fin; Mr. Anand Dalmia, Co-Founder, Fisdcom; Ms. Pooja Kheterpal; CFO Partner, CFO Bridge, and Mr. Akshat Saxena, Co-Founder, e-Paylater. Prof. Muneesh Kumar Advisor – International Relations, University of Delhi acted as Moderator for the Panel Discussion.

The Department organised 48th Annual Convention of MBA (Business Economics), Millennium: Honoring the Past, Treasuring the Present, Shaping the Future.

Publications

Research Articles

Sehgal, S., Mishra, R.K., & Jaiswal, A. (2021). A search for macroeconomic determinants of corporate financial distress, *Indian Economic Review*. 435-461.

Sehgal, S., Mishra, R.K., Deisting, F., & Vashisht, R. (2021). On the determinants and prediction of corporate financial distress in India, *Managerial Finance*. 428-1447.

Sehgal, S., & Pandey, A. (2021). Firm quality and stock returns: Evidence from India, *Firm quality and stock returns: Evidence from India*. 89-208.

Sobti, N., Sehgal, S., & Ilango, B. (2021). How do macroeconomic news surprises affect round-the-clock price discovery of Gold, *International Review of Financial Analysis*.

Sehgal, S., Sobti, N., & Diesting, F. (2021). Who Leads in Intraday Gold Price Discovery and Volatility Connectedness: Spot, Futures, or Exchange-Traded Fund, *Journal of Futures Market*. 1092-1123.

Banga, C., & Gupta, A. (2022). Analysing the Effects of Share Repurchases on Liquidity under Changed Legal Framework: Evidence from India. *Quarterly Journal of Finance and Accounting*, (1 & 2). 1-36.

Arora, P.M., & Dastidar, Ananya, G. (2022). Interlinkages between Credit and Housing Prices in Emerging Market Economies. *Prajnan*. 33-51.

Gupt, Y., & Kasana, S. (2021). Farmers' Perceptions of Climate Change, Its Associated Risks and Adaptation Methods: A Case Study of Ghaziabad, Uttar Pradesh, India., *International Journal of Research -GRANTHAALAYAH*. 50-63.



Books/Chapter in Books

Bhattacharyya, R., Dastidar, A.G., & Sikdar, S. (2021). *Corona Pandemic, India and the World: Economic and Social Policy Perspectives*. London: Routledge.

Bhattacharyya, R., Dastidar, A.G., & Sikdar, S. (2021). *Introduction: Corona Pandemic and the Changing Global Economy*, (pp.1-28). London: Routledge.

Kumar, S., & Pinki (2021). Farmer Suicides in India: A Geo-Comparative Analysis. In Kumar N., & Kant, V. (eds.), *Farmer Suicides in India: "भारत में किसानों की आत्महत्या दशा और दिशा"*, (pp: 298:315). Delhi: Nalanda Prakashan.

Research Projects

DST, 2021, Gender Advancement for Transforming Institutions, Rs. 7,99,200/-

Seminars/Conferences Organized

Ms. Sivani Nanda, Mr. Charles Godwin, Ms. Ashmita Bose, Mr. David Tandra, Ms. Manavi Pathak, Ms. Sandhya Goppalakrishnan, Associate Director - People, Tiger Analytics HR Leader, ZOHO Corporation HR Partner, Flipkart Senior Manager - HR, Infosys Talent Development, Training - Head, Trent Ltd. Associate Director - HR, Cognizant, One-Day HR Conclave, 2021, November 21.

Mr. Aditya Goel, Mr. Sampath Kumar, Mr. Rahul P R, Mr. Ravi Teja, Mr. Ayush Chadha, Lead Analyst, CRISIL Global Research and Analytics Associate Vice President, CredAvenue Associate Vice President, CredAvenue, Lead Data Scientist, PayPal, Associate, JP Morgan Chase & Co., Panel Discussion on Data Science, 2022, February 27.

Mr. Anuj Rahul Joshi, Mr. Suraj Kalra, Mr. Kawalpreet Sidana, Mr. Suraj Saini, Mr. Raj Prakash, Mr. Kush Chopra, Vice President-Talent Acquisition- HR Barclays Senior Vice President and Head, Vodafone, Program Manager, Clifford Chance Business Services, Project Lead, Bain & Company, Vice President,

EY, Associate Director – Analytics, CARS24, Genesis 2021, 21.08.2021.

Ms. Megha Gupta, Ms. Anita Bhatia, Ms. Aditi Jha, Ms. Jaya Laxmi, Mr. Bikram Mishra, Mr. Pradipta Sahoo, Ms. Rinki Garg, Ms. Saumya Pandey, Ms. Dipali Haithamwar, Mr. Colin Mendes, HR Director at Fiserv., HR Head at ET Money, Senior Talent Acquisition Specialist at HSO, HRBP at Ex-Max Bupa, CHRO at Asirvad, HR Consultant & Advisor to the Steering Committee of the Board on HR at Bank Of India, Senior Human Resources Manager at The Glitch, National Lead- Talent Channels at Perfetti Van Melle, (TA Specialist- Sales and Marketing at GEP Worldwide, Head of Human Resources Voltas Beko, Proximo Avenir 21 - Conquering the Future, 2021, September 25.

Ms. Christina A. D'Souza, Ms. Kasturi Paladhi, Heads the Healthcare Vertical at SPAG, Asia. Communications Lead at Xiaomi, India, PRisma, Topic: Taking the walk and walking the talk, 2021, October 30.

Mr. Rishabh Verma, Ms. Parul Soni, Mr. Pranesh Urs, Mr. Gagandeep Singh Dr. Rupesh Kumar Singh, Dr. Anish Aggarwal, Ms. Shailaja Gupta, Director Marketing, Samsung Electronics, Founder and Global Managing Partner, Thinkthrough Consulting, Director Sales and Marketing, JK Foods, Head of marketing, Weltech Group, Director (Technology Consulting) EY, Director, Natwest, Manager Business Consulting & Product manager, Big4, Synthesis '22: Keynote Address: Management Consulting: The Stepping Stone to Entrepreneurship, 2022, January 22.

Ms. Neha Satiya Sharma, Ms. Upasana Sethi, Ms. Dipika Jaikishan, Ms. Raina De, Ms. Shutapa Paul, Ms. Suhruta Kulkarni, Mr. Akshat Saxena, Mr. Reshabh Sharma, Mr. Aditya, Mr. Akash Garg, Mr. Gaurav Bhushan Sharma, Mr. Shobit Saxena, Mr. Chirag Agrawal, Ms. Midhula, Mr. Ankit Prasad, Founder, Infinite Locus, Founder, The Pitch Deck, Co-founder & COO, Founder, Marque, Basis, Founder, Dharma Media, Co-Founder, GoCrackit, Co-founder, Epaylater, Founder, Sparrow, Co-Founder, Credit Mate, Co-Founder, Brand



Hawkers, Founder, Stealth Startup, Co-founder, On Bikes, Co-Founder, TravClan, Founder, Mivi, Co-Founder, Bobble AI, Step Ahead- A New Age Entrepreneur Summit, 2022, January 29.

Ms. Achala Jethmalani, Ms. Meghna Shah, Ms. Prachi Priya, Mr. Prithviraj Srinivas, Mr. Radhika Piplani, Mr. Rishi Shah, Economist, Assistant Vice President at Mirae Asset Capital Markets (India) Pvt. Ltd. Economist & Macro Strategist, Vice President at Max Life Insurance Company Ltd., General Manager, Economist and Public Policy Expert at Hindalco Industries Limited., Chief Economist at Axis Capital Ltd., Economist and Vice President at YES Bank., Director & Economist at KPMG India, Budgetniti '22, Topic: The post budget session, 2022, February 05.

Mr. Himanshu Ghawri, Mr. Arun Goyal, Mr. Ashish Gupta, Ms. Archana Mangtani, Mr. Amit Jain, Mr. Jitendra Kanojia, Mr. Kamlesh Kumar Mr. Charit Agarwal, Mr. Sumit Suri, Mr. Rajkul Fulzele, Mr. Satyam Dwivedi, Mr. Vinal Reddy, Mr. Ramkumar Sundaram, Vice President, PwC, Vice President, CitiGlobal Analytics and Insights, Management consulting, Course Intelligence, Senior manager Analytics, Accenture, Global head of Analytics, Diebold Nixdorf, Head of Analytics, Shoppers Stop, Chief Technology Officer, Virtue Analytics, Executive Vice President, IndusInd Bank, Senior Analytics Manager, Kotak Mahindra, Senior GM Analytics, Lupin, Data Scientist, UHG, Analytics Head, Talent 500, Director, Strategic Planning & Analytics, Adobe, Vishleshan '22 Theme: Business Analytics: The futuristic Savior, 2022, February 27.

Mr. Nitin Pai, Mr. Rajeev Jain, Mr. Sushant Dayal, Mr. Charandeep Singh, Mr. Mayank Rastogi, Mr. Ritesh Bhatnagar, Mr. Saurabh Sharma, Mr. Varun Kulkarni, Mr. Bhuvana Subramanyan, Mr. Sahil Bhushan, Mr. Mahuya Chaturvedi, Mr. Himanshu Badlia, Ms. Sanchita Ganguly, Mr. Vivek Kumar Sinha, Ms. Nehal Vora, CMO & Chief Strategy Officer, Tata Elxsi, Category Head for Nutrition, Amway, Head - Marketing & CRM, TVS Credit Services Ltd., Director-Category, Blinkit (formerly Grofers),

Chief Marketing Officer/ Business Head, U2pia Mobile, Head, HT Brand Studio, HT Studio, Associate Director- Digital Marketing & Growth, NoBroker, Chief Marketing Officer, Randstad India, AVP & Head - Corporate Marketing, TO THE NEW, CMO and Online Business Head, Baggit, Marketing Manager, Aditya Birla Fashion and Retail Ltd., Brand Building Head - Vice President, UltraTech Cement, Chief Marketing Officer, Home Credit India, Head of Marketing, Mother Dairy Fruit & Vegetable Pvt Ltd, Markquest '22, Theme: Markigence, 2022, March 05.

Seminar/Conference Presentations

Dastidar, A.G. (2022, March 11). Pandemic, Economic Recovery and the Way Forward, *6th Biennial International Conference on The Financial Ecosystem: Disruptions & the Way Forward*, Guru Gobind Singh College of Commerce, University of Delhi.

Dastidar, A.G. (2022, October 04-05). OLS Regression and Dummy Variables in Regression Models. *Research Methodology and Data Analysis in Commerce, Management and Social Sciences*. Department of Commerce, University of Kashmir.

Gupt, Y., & Maggo, V. (2022, March 26). Effects of Urbanisation on Poverty and Inequality in Urban India. *Creating a Better Future: Mindful and Innovative Practices for Sustainability*. Lal Bahadur Shastri Institute of Management International Research Conference, Delhi.

Negi, C.M. (2021, August 31). Changes in Agrarian Structure and Agriculture Development in Himachal Pradesh, *International Conference on Agriculture Economics*.

Kumar, S. (2021, March 10). Geographical Analysis of Farmer Suicide in India. *Burning India of Farmer's Suicide: Problems & Challenges*. Chaman Lal Mahavidyalaya, Landhaura, Roorkee, Haridwar, Uttarakhand.

Kumar, S. (2021, November 20). Index Numbers. *Quantitative Techniques and*



Economics. UGC-HRDC, Doctor Harisingh Gour, Vishwavidyalaya, Sagar, Madhya Pradesh.

Kumar, S. (2021, March 10). Problem of Farmer Suicide in India. *National Seminar*. Chaman Lal Mahavidyalaya, Landhaura, Roorkee, Haridwar, Uttarakhand.

Kumar, S. (2021, January 15-16). Statistics in Education. *International Workshop*. Ramanujan College of Education, Palwal.

Kumar, S. (2022, April 28-29). Analysis of Impact of Covid-19 on Private Sector. *Indian Economy during Pandemic: New Challenges and Opportunities*. Department of Economics, Chaudhary Ranbir Singh University, Jind (Haryana) & Haryana Economic Association.

Placement Details

MBA (Finance)

Final Placements: 37 placed out of 45 (82.22%).

16 companies visited for campus recruitment.

Summer Placements: 47 placed out of 48 (97.91%).

14 companies visited for campus recruitment.

MBA (Business Economics)

Final Placements: 68 placed out of 69 (98.5%).

31 companies visited for campus recruitment.

Summer Placements: 46 placed out of 74 (62.1%).

25 companies visited for campus recruitment.

Extension and Outreach Activities

The Yoga Day was celebrated in the Department of Finance and Business Economics on 2021, June 21. Due to Covid lockdown and social distancing norms, the Yoga Day was celebrated from home this year. The Head of the Department, Prof. Sanjay Sehgal, Ph.D. scholars and non-teaching staff of the Department participated in the Yoga Session.

Breathing exercises like Pranayam, Kapalbhati, Anulom Vilom, Bhastrika and Bhramari were performed by the participants. The participants also performed yoga asanas like, Suryanamaskar, Tadasana, Vrikshasana, Adhamukhosavasana, Trikonasana, Naukasana and Bhujangasana.

Faculty Strength

MBA(Finance): 08

MBA(Business Economics): 04

Number of Ph.D. Degrees Awarded

Ph.D. (Finance): 02

Ph.D. (Business Economics): 01



Faculty of Arts

Arabic

Brief History

The Department of Arabic is one of the oldest departments in the University dating back to 1922, the year of the inception of Delhi University. However, the department was not independent until the late sixties when it got an independent entity. At first, the classes used to be held at St. Stephen College, a constituent college of the University of Delhi. To begin with, the renowned erudite personalities such as Shamsul Ulama Maulana Abdur Rahman and Maulana Saeed Ahmad Akberabadi rendered their services for the department. In the late fifties the department of Arabic with its sister department, the Department of Persian and Urdu- was shifted to the well-known Arts Faculty Building.

The Department of Arabic thus passed through three phases. At first it was working under the umbrella of Department of Arabic, Persian and Urdu. At the second stage the Department of Urdu became independent and the Department of Arabic and Persian remained combined. Afterwards the Department of Arabic got independent in the late sixties.

Major Activities and Achievements

The department has organized a two-day national seminar on “Role of Indian Madrasas in Promotion of Arabic Language and Literature” on 15.03.2022. Prof. K. A. Fariq Memorial Lecture Series-15 was also organized on the topic “Contribution of Awadh to the promotion of Arabic Language and Literature in India” on 15.03.2022 delivered by Prof. Masud Anwar Alavi, A.M.U.

More over three extension invited Lectures were conducted during this academic year as follows:

“Trends and movements of Modern Arabic Literature” delivered by Prof. Mujeebur Rahman JNU.

“Modern Arabic poetry” delivered by Prof. Fauzan Ahmad, J.M.I.

“Translation (Arabic-English) Methods & trends “delivered by Prof. Habibullah Khan J.M.I.

The three senior faculties of the department were felicitated and honored achievement awards by Ibn Sina Academy Aligarh.

The department has conducted during said academic year seven viva-voce for Ph.D. and five viva-voce for M.Phil. scholars.

The department is planning to organize; A special seminar on contribution of department Alumni to the promotion of Arabic Language & Literature, A national seminar in March, 2023 and Fariq Memorial Lecture in March, 2023.

Honours/Distinctions

The following three senior faculties of the department were felicitated and honored achievement awards by Ibn Sina Academy Aligarh:

Prof. Nauman Khan
Prof. Naimul Hasan (HoD)
Prof. Hasanain Akhtar

Publications

Research Articles

Akhtar, M. (April, 2021). Mahatama Gandhi aur Nelson m Mandela ki Islam dosti. AJKAL, 09, 79, 22-24.

Akram, M. (2021). Manhaj Tadrees al-qura’an ladal muallim al-farahi, 4, 10, 64-76.

Akram, M. (2022). Tasawaf Aur Maulana Abdul Majid Daryabadi, 1, 1, 22-27.

Mahmood, A. (2022). Abul Kalam Azad fi majal e shafate wa ttaleem. Naqeebul Hind, Jan-March, 06, 03-07.

Mahmood, A. (2022). Ameena Qutub wa rihlatuha maa sher wal adab. Journal of the



Indian Academy of Arabic, AMU, 2021-2022, XIL, 154-163.

Books/Chapter in Books

Akhtar, M. (2022). *Abdul Hameed Judah al-sahair wa Ishamatuhu fial-Qissah al-arabiah*. New Delhi: Markazi Publication.

Akhtar, M. (2022). *Maazuma-tul-Qiyam fi Rewayat Abdul Hameed Judah al-Sahair*. New Delhi: Markazi publication.

Akhtar, M. (2021). *Arab aur Jazeeratul Arab Unit-1*, Hyderabad: Directorate of Distance Education.

Akhtar, M. (June, 2021). *Jahili Daur mein Arbon ke samaji wa tamadduhi halaat*. Unit-III. Hyderabad: Directorate of Distance Education.

Akhtar, M. (June, 2021). *Jahili Daur mein Arbon ke seyasi halaat*. Unit-II. Hyderabad: Directorate of Distance Education.

Akhtar, M. (June, 2021). *Jahili Daur mein Arbon ke mazhabi halaat*. Unit IV. Hyderabad: Directorate of Distance Education.

Research Projects

NCPUL, 2021/24 Monthss, Hindustan Mein Arabi Sahafal (Al-Sihafa Al- Arabic Fial.Hind) ka Urdu Tarjuma by Prof. Mohammad Ayub, Rs. 1,05,000/-

Seminars/Conferences

Prof. Muhsin Usmani, Dean Faculty of Humanities & Languages EFLU; Prof. Mohmmad Ayub, Director India Arab Centre, JMI & Prof. Abdul Majid Qazi, Head Department of Arabic, JMI, NCPUL, "Role of Indian Madrasas in Promotion of Arabic Language and Literature" on 16.03.2022.

Seminar/Conference Presentations

Hasan, N. (2021, December 21 – 2021, December 22). Different aspects of research in Arabic language and literature, Department of Arabic, Jamia Millia Islamia, New Delhi.

Hasan, N. (2021, December 19). Role of Indian Universities in development of Arabic language and literature, International Seminar,

Department of Arabic, JMI on the eve of World Arabic Language Day.

Hasan, N. (2022, March 2-3). Walladah bint al-Mustakfi and her contribution to Andalusian Arabic Poetry, National Seminar on Role of Women in Arabic & Urdu Poetry: Creation & Inspiration, Department of Arabic, Jamia Millia Islamia.

Akhtar, M. (2022, March 2-3). Social and cultural life in pre-Islamic Arabia, National Seminar, India Arab Cultural Centre, Jamia Millia Islamia.

Akhtar, M. (2022, March 3). Fahmida Reyazek Simabi Shaksiyat Aur Rewayat Shikah Shairah, National Seminar on Role of Women in Arabic & Urdu Poetry: Creation & Inspiration, the Department of Arabic, Jamia Millia Islamia.

Akhtar, M. (2022, February 28). Al-adab al-Islamia Mufhumuha Wa Malamihahu Hamu thha Wakthu Utraha Al-Duklarab Lit. Prof. Wali Akhtar al- Nadwi, National Seminar on Prof. Wali Akhtar; Life and Work, National Human Development National Welfare Society, New Delhi Akram, M. (2022, March).

Akhtar, M. (2022, March). Nizar Qabbani ki shaeri mein ma'an ke tuden, National Seminar, Department of Arabic, Jamia Millia Islamia, New Delhi.

Akram, M. (2022, March). Manzar Azmi Ke Adabi Rujhanat, National Seminar, I.H.F. & NCPUL, New Delhi.

Akram, M. (2022, March). Kitab tayseerus sarf: Ek Mutala, National Seminar, NCPUL & Human welfare society, New Delhi.

Mahmood, A. (2022, March 2-3). Ameena Qutub wa Rihlatuha maa sher wal adab", National Seminar on Adab Mein Khwateen Ka Kirdar, Department of Arabic, Jamia Millia Islamia, New Delhi.

Mahmood, A. (2022, August 27). Wali Akhtar Nadwi wa ihtemamuhu be Taaleem auladihi al lughat al alArabiyyah, National Seminar,



Department of Arabic on Prof. Wali Akhtar; Life and Work, University of Delhi.

Other Inter-Institutional Collaborations

Two-day national seminar on “Prof. Wali Akhtar Life & Works” was organized in the Department of Arabic, DU in collaboration with JNU & National Human Development Welfare Society, New Delhi.

Placement Details

9% of the students have been placed in various government and private sectors in the year 2021-22.

Faculty Strength

08

Number of Ph.D. Degrees Awarded

08

Number of M.Phil. Degrees Awarded

06

Other Significant Information

Department is planning to:

Launch an online/offline Arabic Journal/magazine.

Organize an International Seminar on contribution of DU Alumnae in promotion of Arabic Language & Literature.

Organize a National seminar in March, 2023

Organize Fariq Memorial Lecture in March, 2023.

Buddhist Studies

Major Activities and Achievements

Collaborated with Mahamukut Buddhist University Thailand to organize an International symposium (online) on 16-17 October, 2022.

Publications

Research Articles

Sangai, G. (202A). Samatha and vipassana meditation: It's importance in Buddhism and Human well-being. A Worldwide International Inter Disciplinary Research Journal, N1, 41-46.

Sangai, G. (2021). The cultivation of Boudhicitta for the wellbeing of all sentient being. Shabadarnav International, 2, 321-324.

Sangai, G. (2021). Boudh dhram ek shantipriya dhram. Worldwide International Disciplinary Research Journal, 3, 56-61.

Sangai, G. (2021). Prachin Boudh dhram me mahilao ki sithti. International Journal of Social & Science Management Studies, 4, 54-56.

Sharma, N. (2022, Jan-Mar). Application of applied Buddhism and its impact on person's daily life. Shodh Ritu, 1.

Sharma, N. (2022, Jan-Mar). Nari asmita ka vivid aayam: ek etihaska pariprekshey. Naggani, 2, 40.

Pandey, S.K. (2022). Anatta to sunyata. International Journal of Multidisciplinary Trends, 1, 4, 17-20.

Pandey, S.K. (2022). Buddhavacana ke sanraksana mein sangiti ka mahattva: ek vimarsh. International Journal of Applied Research, 2, 8, 27-34.

Pandey, S.K. & Gyaltan, N. (2021). Anātmavāda. Worldwide International Inter Disciplinary Research Journal, XLVI, 1, 106-108.



Seminars/Conferences Organized

Prof. Subhra B. Pavagadhi Rev. Puzin, Prof. Mbu Thailand, International Symposium, 17-10-2021.

Seminar/Conference Presentations

Pandey, S.K. (2022, March 15). Relevance of Buddhism in world peace. International Conference on Relevance of Buddhism in the Contemporary world, Buddhist Studies & IQAC, Satyawati College, University of College.

Pandey, S. K. (2022, May 23-26). कोविड महामारी के परिवेश में बौद्ध-सिद्धांतों की प्रासंगिकता, 4 Day-International Webinar, Pali Society of India in collaboration with Sampurnanand Sanskrit University, Varanasi, U. P.

Susmita (2021, November 7– 09). Relevance of buddha's dhamma in the context of post-covid world with special

reference to brhama vihara, 6th Dharma-Dhamma Conference.

Susmita (2022, March, 25-26). Relevance of buddhism in the age of globalization. International Conference on theme Relevance of Buddhism in the Contemporary world, Buddhist Studies & IQAC, Satyawati college, University of Delhi.

Faculty Strength

07 out of 24

Number of Ph.D. Degrees Awarded

32

Number of M.Phil. Degrees Awarded

15

English

Brief History

The Department of English has the same year of inception as the University of Delhi, 1922. The Department offers degrees at MA, M.Phil. and Ph. D levels and oversees undergraduate teaching at the 79 Colleges which are affiliated to the University. The Department provides intensive mentoring to its students both in and beyond the classroom in a wide variety of forums; and its calendar makes up of ongoing lectures, film screenings, symposia, conferences, and colloquia on multiple themes. From 1970, the Department began functioning from two campuses: the Main Campus at the Arts Faculty, University of Delhi campus, North Delhi; and the South Campus, University of Delhi campus, Dhaula Kuan, South Delhi. The Department also oversees M.A. English Programme at the Non-Collegiate Women's Education Board.

Major Activities and Achievements

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The Department also oversees M.A. English Programme at the Non-Collegiate Women's Education Board.

Honours/Distinctions

Rimli Bhattacharya (from India), NEH Collaborative Research Grant for the Victoria Memorial Hall (VMH) project: From 2021 to 2023. Principal Investigators Romita Ray (project director), Syracuse University; Tim Barringer, Yale University; Jayanta.

Subarno Chattarji, Minor Research Grant, Faculty Research Project under Institute of Eminence Scheme, University of Delhi, 2021-2022. Project title: "Representing War and Conflict in India." Rs: 1,50,000/-

Subarno Chattarji, working on a Special issue on "War and Representation in India" for Revue LISA/LISA e-journal (<https://journals.openedition.org/lisa/>), published by the University of Le Mans and Rennes University Press, France. Haris Qadeer. Visiting Fellowship to King's College, London (Charles Wallace India Trust) 2022.

Publications

Research Articles

Bhattacharya, R. (2022). On the move. *Language and Language Teaching*, 21, vol. 11, 111-122.

Chattarji, S. & Kaul, A.N. (2021). The Domain of the Novel: Reflections on Some Historical Definitions. *The Book Review*, 4, XLV, 29-30.

Dubey, Y.K. (2022). Shakespeare's Women in *Much Ado About Nothing*. *ANVESAK*, 2(1), 52, 150 – 157.

Dubey, Y.K. (2022). Masculist separatism: A tool of gender subversion under the Taliban. *Journal of Education: Rabindra Bharti University*, 1, XXIV, 255 – 260.

Vats, N. (2021). Religious boutique or spiritual laboratory? A critical study of Namita Gokhale's *Gods, Graves and Grandmother*. *Anukriti*, 9, 11, 45-51.

Vats, N. (2021). Visualization of the urban landscape in Sarnath Banerjee's corridor. *Shodh Drishti*, 11.1, 12, 137-142.

Vats, N. (2021). Sohar in magahi: The celebration of the beginning of life. *International Research Journal of Commerce, Arts and Science*, 1, 12, 117-124.

Vats, N. (2021). Female subjectivity: A study of Manju Kapur's select novels. *International Research Journal of Management, Sociology & Humanities*, 8, 12, 250-257.

Singh, V.K., (2021). On beholding the overstretched stagecraft of Shakespeare's Antony and Cleopatra. *Kanpur Philosophers*, VIII.6, NA, 240-244.

Singh, V.K., (2021). Limits of Political Pragmatism in Shakespeare's King Richard III. *Shodhsamhita*. VIII,11.2, 163-166.

Singh, V.K. (2021). Macbeth: Shakespeare's presentation of an ideal king. *Journal of Education Rabindra Bharti University*, XXIV 12.2, 245-254.

Singh V.K. (2022). Male chauvinism in Ram-lore: A Reassessment. *Madhya Pradesh Journal of Social Sciences*, 27.1, 133-136.

Singh, V.K. (2022). From NPE (1986) to NEP (2020): The relevance of English education today. *Bengal, Past & Present*, 140.1, 200-203.

Singh, V.K. (2022). Shakespeare's political wisdom: A study from Indian perspective. *Anvesak*, 52.2 I, 146-149.

Books/Chapter in Books

Haris, Q., & Arafath, Y. (2021). In Sultana's Sisters. *Gender, genre, and genealogy in south tude muslim women's fiction*. India: Routledge.

Devadawson (2021). Obedient Daughters and the deployment of graphic stereotypes. In Sultana's Sisters. *Gender, genre, and genealogy in South Asian muslim women's Fiction* (179-190). India: Routledge.



Kumar, R. (2022). A Few Words for Dr. Jitmitra Singh Deo'. In Fanindam Deo, et al (Eds.). *Maragud to mahanadi kharia* (121-123). Khadial Gabeshana Pratistan.

Kumar, R. (2022). In Memory of Gail Omvedt. In M. Namishray (Ed.). *Gail Omvedt: First Ambedkarite woman writer*, (131-136). New Delhi: Apollo Publishers.

Kumar, R. (2022). The 'Other' Indians: reading dalit discourse. In S. Gupta, and B. Chakrabarty (Ed.). *Joseph Macwan's Angaliyat' in Dalit Writings: emerging perspectives*, (21-36). Jaipur: Rawat Publications

Kumar, R. (2022). Muli's life history as dalit testimonio. In S.S. Gupta, (Ed.). *Subalternities in India and Latin America: Dalit autobiographies and the testimonio*. London: Routledge.

Kumar, R. (2021). Remembering Prof. G.K. Das' in R.W. Desai et al (Ed.). *Staying connected: remembering Prof. G.K. Das* (78-81). Delhi: Aakar.

Bhattacharya, R. (2021). Rabindranath Tagore and the Pulse of Dance', In *Global Groove, An International Exhibition of Dance* (328-341). Germany: Folkwang Museum, Essen.

Dubey, Y.K. (2021). Literature and tribal issues. In P. K. Srivastava (Ed.) *Tribal literature and oral expressions in India* (95-107). Delhi: Sahitya Akademi.

Qadeer, H. (2021). Genre and genealogy in muslim South Asia. In Sultana's Sisters. *Gender, genre, and genealogy in South Asian muslim women's fiction* (11-30). India: Routledge.

Qadeer, H. (2021). Kurukshetra and Karbala: Mahabharata. In Intizar Hussain's fiction. *Religion in South Asian anglophone literature* (33-46). India, Routledge.

Seminar/Conference Presentations

Shormishtha, P. (2021, July). A New audience for Shakespeare in India: Vishal Bhardwaj's

Trilogy, Global Shakespeare Publics, Shakespeare Circuits, World Shakespeare Congress.

Devadawson, C. R. (2022, February). Losing One's Listener(s): The Visual Politics of Online Lectures, University of Kashmir.

Kumar, R. (2022, January 23). Translation as a Literary Genre', The English Language Teachers Association of India.

Bhattacharya, R. (2021, September 18). The Unfound at 'The Photo of Another': A Conversation on Shan Bhattacharya's Portal, Sher-Gil Sundaram Foundation.

Chattarji, S. (2022, June 14-22). Paradise of the Blind: Dương Thu Hương's representations of the Vietnam/American War, International Virtual Conference on 'Sharing War Memories – From the Military to the Civilian', Le Mans University.

Qadeer, H. (2022, February 11) The Long Partition", Department of Asian Studies, Cornell University, US.

Negi, P. (2022, January 11-20). Tracing the Roots and Routes of Kinnauri Folk Culture". International Conference on "Transition & Transmission in Oral Tradition, Department of Folkloristics and Tribal Studies, School of Social and Behavioral Sciences (Central University of Karnataka, Kalaburagi, India.

Antony, S. (2022, June 14–15) The Littoral in the Literary: Blue Humanities as a Heterotopia" in the Valedictory Session of the Two Day Virtual International Conference on "Maritime Footprints: Crafting the Cultural Landscape of the Littoral Zone", PG and Research Department of English, St. Mary's College (Autonomous), Thoothukudi.

Faculty Strength

18



Germanic and Romance Studies

Brief History

The Department of Germanic and Romance Studies has its origins in the Department of Modern European Languages which was established in 1948. The Department came into existence in 1988 when the original department was divided into two separate departments. Since the introduction of the M.A. programmes in 1988 in French, German and Hispanic Studies, the focus in teaching and research is on cultural studies with an emphasis on an interdisciplinary perspective and a broader European dimension. This focus has been enhanced through the restructuring of the M.A. programmes and the introduction of an M.A. in Italian Studies in 1995, the restructuring of the M.Phil. programmes in 1998 and the introduction of BA (Hons) programmes (in French, German, Italian and Spanish) in 2002.

Major Activities and Achievements

Annual International Seminar held in March 2022.

Honours/Distinctions

Prof. Minni Sawhney:
Editorial Board, IAFOR, International Journal of Arts and Humanities, Reviewer for Mitologías hoy, Autonomous University of Barcelona, Reviewer for Letras Hispanas, University of Texas.

Publications

Books/Chapter in Books

Sawhney, M. (2021). *Estilos, estrategias e identidades: Elmer Mendoza y la creación de una saga detectivesca*, editado por Flores

Badillo Herlinda. Universidad de Veracruz: Vernon Press.

Research Articles

Sawhney, M. (April 2021). Calderón on the Web”, in Renaissance and Reformation, April 2021. Early Modern Drama, Review, <https://jps.library.utoronto.ca/index.php/renref/article/view/36396>.

Seminars/Conferences Organized

Conflict and Literature: Narratives of struggle, 2022, March 12.

National/International MoUs Signed

University of Viene
University of Freiburg
Agreement with Institute of France in collaboration with Embassy of France.

Extension and Outreach Activities

17th Francophone festival 19.04.2022
Visit of the Ambassador and Ms. Yvonne Bonilla of El Salvador in Delhi on 25.06.2022 at 11:00 am.

Talk on “Identity terms: Latino (Latina, Latinx) and Hispanic. With which term do people identify?” by Emilia Alonso-Marks (Institute for the Empirical Study of Language, Ohio University) on 18.07.2022 at 11:00 am.

Faculty Strength

Around 150

Number of Ph.D. Degrees Awarded

02

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.

Publications

Research Articles

Kumar S., (2021). Yurop mein aadhunikikaran ki prakriya aur aadhunikta ki avdharna. Banas Jan, Delhi, 186-195.

Kumar S., (2022). Nav pragativad aur Rajesh Joshi ka pehala kavya sangrah. Banas Jan, Delhi, 204-212.

Rai, A., (2021). Geetikavya parampara aur Tulsidas. Gagananchal, Delhi, 39-45.

Rai, A., (2021). Mahaveer Prasad Dwived: bhasha samasya ke kuchh pahloo. Prayag, HiUniversity of Delhistani Academy, 7-9.

Rai, A., (2022). China mein hindi shikshan; Pravasi jagat. CHI, Agra. 28-36.

Negi, S., (2021). Adivasi samaj aur vachik parampara. Gondvana darshan patrika, Delhi, 17-20.

Negi, S., (2022). Krishnanath ka yatra sahitya aur pashchimottar Himalaya ka janjatiya samaj. Jankriti antarrashtriya patrika, Ranchi, 251-262.

Research Projects

University of Delhi, 2021-2022, Shiksha Mein Bhasha Ka Prashna aur Rashtriya Shiksha Niti, 1.5 Lac

University of Delhi, 2021-2022, Maukhik Sahitya aur Adivasi istri Ka Samajik-Sanskritik Adhyayan (Vishesh Sandarbha Kinnaur), 1.5 Lac

Seminar/Conference Presentations

Rai, A., (2021, July 6). Hindi sahitya mein dhanit azadi ka sawar, Shyamlal College Evening, University of Delhi.

Rai, A., (2021, July 7). Rashtra nirman mein yuva varg ki bhumika, National Webinar at AMU(Aligarh).

Rai, A., (2021, August 17). Hindi ke vikas mein technic ki bhumika, Online Workshop NTPC, Simhadri, Vishakhapatnam.

Rai, A., (2021, August 21). Aadikalin hindi sahitya ke adhyayan ki samasyen, National Webinar Satyawati College, University of Delhi.

Tiwari, V., (2021, September 14). Hindi shikshan aur shodh: chunautiyan aur sambhavnaein, Hindi Department, Rajasthan University.

Tiwari, V., (2022, February 19). Samkaleen hindi upanyas aur uska desh samaj, Dr. Hari Singh Gaur University, Sagar, Madhya Pradesh.

Tiwari, V., (2021, September 30). Bhranit aadmi ke liye ek kitab, Rabindranath Tagore University, Bhopal.

Negi, S., (2021, December 5). Nishankh ka rachna sansar, Online Seminar, Syahi Blue Books.

Negi, S., (2022, March 8). Adivasi samaj aur istri, Satyawati College (Eve.), University of Delhi.

Negi, S., (2022, March 9). Adivasi sahitya aur istri, Rachyita Manch, Delhi.

Faculty Strength

Permanent: 16

Number of Ph.D. Degrees Awarded

30

Number of M.Phil. Degrees Awarded

20



Library and Information Science

Brief History

The Department of Library and Information Science instituted in 1946, is organized in the Faculty of Arts with the efforts of (late) Dr. S. R. Ranganathan, Prof. S. DasGupta, and Sir Maurice Gwyer.

It was for the first time in the country that a Library Science Department was constituted on par with other teaching departments at this University and recognized as an Associated Project of UNESCO. For a long time, this was the only Department in the country which, in addition to the B.L.I.Sc., a degree, it was providing education and research facilities at higher levels leading to the MLISc, M.Phil, and Ph.D. degrees.

The Department during the past 75 years of its existence has played a vital role in Library Education in the country. Already 4049 students have taken their Library Science degrees from this Department, of which 100 Ph.D. degrees, 172 M.Phil. degrees, 1510 MLISc degrees, and 2648 BLISc & Diploma degrees (up to May 2022).

Department ever since its inception continues to play its role of leadership in Library and Information Science education with the changing and complex needs of libraries and documentation centers in the country. The Department took concrete steps in 1972 to introduce new areas of study in Information Science and Management, such as 'Computer and its Application in Libraries,' Information Storage and Retrieval,' and 'Library Systems Analysis & Statistical Methods' in its curriculum. Department revised its syllabi in 2004 both in BLISc & MLISc Programmes.

Again revised its syllabi in 2009 with more emphasis on Information and Communication Technology applications in Libraries in both BLISc. And MLISc. Programmes in each semester. A special paper on 'Information Literacy Applications in LIS' and exclusive paper on Marketing of LIS Products and

Services and Management Consultancy' in MLISc Programme.

The Department is adequately equipped with state-of-the-art ICT infrastructure for students not only for classroom teaching but also for hands-on practicals. It is providing free Wi-Fi connectivity and email facilities for all the bonafide students of the Department.

The Department has already established a very high reputation for itself in India and abroad. The Alumni of the Department consists of well-known professionals who are occupying very prominent positions not only in India but also in several other countries of the world. The faculty consists of teachers who are well known in the profession in this country as well as internationally. The Department provides facilities for Library, Hostel facilities for outside students, Medical facilities, Freeship and scholarships for meritorious students.

Every year the Department organizes visits to reputed Libraries/Documentation Centres in Delhi and outside Delhi in which participation by BLISc students shall be compulsory.

Major Activities and Achievements

"PLATINUM JUBILEE CELEBRATIONS (1946 – 2021)" When the whole country is celebrating the colours of extreme bills and contentment through 75 years of "Azadi ka Amrit Mahotsav" in consonance, the Department of Library & information Science, University of Delhi also celebrated its "Platinum Jubilee Year" (1946-2021) in high spirit and a grandeur manner through successful accomplishment of series of magnificent events.

The journey of joy, pride, sweat and incessant ordeals representing 75 glorious indelible footprints for Library development, leading the library profession, nurturing the future of generations of Library and Information Science professional, laying foundation of numerous abodes of knowledge across India, training and polishing the skills and competencies of professionals and numerous achievements, unsung sagas of professional development



eternally connected, with celebrations of Department of Library & Information science, university of Delhi.

Honours/Distinctions

On September 21st, 2021 the hard work and dedication towards profession of faculty members Prof. Shailendra Kumar (HOD), Prof. R.K. Bhatt, Prof. K.P. Singh Prof. M. Madhusudhan, Prof. Meera and Dr. Manish Kumar was duly felicitated by the Principal Prof. Swati Paul (Principal Janki Devi Memorial college, DU).

Publications

Research Articles

Bhatt, R. K. & Rohit, (2022). Use of social media during COVID 19 by the university libraries for providing the LIS product and services: A study. 10th International Library Information Professional Summit (I-LIPS) on Resilience, Reflection, and Innovation in Library Services and Practices. 36-46.

Kumar A. & Bhatt. R.K., (2022). The effect of marketing communication through Web 2.0 on the library users in India. 10th International Library Information Professional Summit (I-LIPS) on Resilience, Reflection, and Innovation in Library Services and Practices, 254-261.

Mondal, H.K.& Bhatt, R.K., (2022). Use of e-Book by postgraduate students at Daffodil International University of Bangladesh: A study. 10th International Library Information Professional Summit (I-LIPS) on Resilience, Reflection, and Innovation in Library Services and Practices, 487-497.

Gupta, P., & Mashusudhan, M., (2021). CCTV as an efficient surveillance system? An assessment from twenty-four academic libraries of India. Global Knowledge, Memory and Communication, 70, No.4/5, 355-376, 10.1108/GKMC-04-2020-0052.

Lamba, M., Kashyap, N. & Madhusudhan, M., (2021). Research evaluation of computer science publications using altmetrics: A cohort study of Indian central universities. Global Knowledge, Memory and Communication, 70

No.4/5,459-486, DOI(10.1108/GKMC-04-2020-0052).

Lohia, Pragya and Madhusudhan, M., (2021). Use of smartphones for enhancing digital information literacy skills: A study of library and information science students, University of Delhi. Library Philosophy and Practice, 6424, 1-11, SJR-0.29(2012).

Senthil, V. & Madhusudhan, M., (2021). Awareness and use of DRDO e-Journal consortium by the scientists of Bengaluru based DRDO labs in India. Library Philosophy and Practice, 6285 (2021): 1-18, SJR-0.29 (2012).

Bajpai, V.K. & and Madhusudhan, M. (2021). Library software skills: A case study of college libraries of Delhi. World Digital Libraries, 14.2,139-156. DOI:0.18329/09757597/2021/14208.

Senthil, V and Madhusudhan, M., (2021). Assessment of DRDO e-journals Consortium in India by Librarians: An Analytical Study. RBU Journal of Library & Information Science, 23, 70-79.

Gupta, P., & Madhusudhan, M., (2021). RFID technology as a potential electronic security system: an assessment from twenty-four academic libraries of India. Journal of Knowledge & Communication Management 11.2, 87-115, (SJIF-6.191).

Mahawariya, K., & Yadav, M., (2022). Collection and services of government libraries in Delhi". Desidoc journal of library & information technology, 42(2): 88-97, DOI: 10.14429/djlit.42.2.17254.

Bharti & Meera, (2021). International Journal of Innovation Scientific Research and Review, 3(7):1499-1502. <http://www.journalijisr.com/sites/default/files/issues-pdf/IJISRR-579.pdf>.

Yadav, Meera and Mahawariya, K., (2021). Growth and development of central secretariat library, Ministry of Culture, Government of India: A study. Library



Philosophy and Practice (e-journal). 6075. <https://digitalcommons.unl.edu/libphilprac/6075>.

Bharti & Meera, (2021). Bibliometric analysis for literature: An overview. *International Journal of Research in Library Science (IJRLS)*, 7(1) 92-97.

Mahawariya, K.& Yadav, M., (2021). Exploring needs and requirements of differently abled students at equal opportunity cell, University of Delhi. *Athens Journal of Social Sciences*, 8(1), 9-30 <https://doi.org/10.30958/ajss.8-1-1> doi=10.30958/ajss.

Singh K.P. (2022). Information products and services: marketing testing and test marketing. *IASLIC Bulletin*, 2, 67, 67-79.

Singh K.P. (2022). Trajectory of the platinum jubilee of library and information department, University of Delhi: setting a new agenda for academic excellence. *WE-A Multidisciplinary & Multilingual Peer-Reviewed Research Journal*, 01, 03, 1-14.

Singh, K.P., (2022). Journal of information system and technology management (2018-2022): A bibliometric Study. *WE-A Multidisciplinary & Multilingual Peer-Reviewed Research Journal*, 1, 3, 65-70.

Singh, K.P. (2022). Hundred years of University of Delhi (1922-2022): A glorious journey from take on to take off. *University News*, 30, 60, 1-15.

Singh, K.P. (2022). Towards understanding creative commons concept for sharing information on public domain. *Indian journal of information, Library and Society*, 1-2, 35, 132-141.

Singh, K.P. (2022). Information seeking behaviors of school students in delhi: a comparative study. *International Journal of Digital Content Management*, 4, 2, 1-14.

Singh, K.P. (2021). Citation analysis of Ph.D. theses awarded by University of Delhi during 2016 and 2017 in the field of Zoology. *WE-A Multidisciplinary & Multilingual Peer - Reviewed Research Journal.*, 2, 2, 1-8.

Singh K.P., Prof. K. P. Singh (2021), Library and information science education in india: growth, development, problems and prospects. *International Journal of Knowledge Processing Studies (KPS)*, 1, 1.

Singh K.P., (2021). Library services for person with disability during covid19 pandemic: an exploratory study. *Indian Journal of Information, Library and Society*, 3-4, 34, 153-163.

Singh, K.P. (2021). Role of Ranganathan's legacy in library education and research in India. *Library Herald.*, 2, 59, 1-18.

Singh K.P., (2021). Application of information and communication technologies in select private university libraries of north central Nigeria. *Journal of Indian Library Association*, 2, 57, 1-13.

Singh, K.P. (2021). Research productivity and research trends: a bibliometric study of library herald for the year 1958-1981. *International Journal of Information Dissemination and Technology*, 2, 11, 1-11.

Singh, K.P. (2021). Making India healthy and wealthy through health literacy: a futuristic model. *University News*, 33, 59, 15-25.

Singh, K.P. (2021). Exploring research excellence of the university of Delhi during covid19 period: a scientometric study. *WE-A Multidisciplinary & Multilingual Peer-Reviewed Research Journal*, 1, 2, 1-31.

Singh, K.P. (2021). Lotka's law and author productivity in Punjabi language books. *IASLIC Bulletin*, 1, 66.

Singh, K.P. & Verma, S., (2021). Modeling the growth of food science and technology



literature in India. *Library Philosophy & Practices* (e-journal), 4713, 1-13.

Kumar, M. & Yadav, S., (2021). Information seeking behavior of under graduate students of english discipline: a comparative study of Miranda House College and Vivekananda College, University of Delhi. *Library Philosophy and Practice e- Journal*, 5697, 1-25.

Bhatt, R. K., & Kumar M., (2021). Online classes during covid-19 lockdown in India: a study from students' perspective of University of Delhi. *Indian Journal of Information, Library & Society*, 1-2, 34, 111-119.

Kumar M., & Shyamnath, (2021). Marketing of Library Products and Services: A Study of Dr. Zakir Husain Library of Jamia Millia Islamia, Delhi and Central Library, Central University of Haryana, India. *VEETHIKA-An International Interdisciplinary Research Journal*, 4, 7, 1-8.

Kumar M. & Sharma S., (2021). Online classes during covid-19 period: a study of students' experience at Jamia Millia Islamia. *Library Herald*, 3, 59, 144-163.

Kumar M. & et al., (2021). Paving through the corridors of National Law University libraries of north India: an anthology of resources and services. *Library Herald*, 3, 59, 272-283.

Kumar M. & Gupta, D., (2021). Covid19 pandemic and online classes: student's experience of department of library and information science, Babasaheb Bhimrao Ambedkar University, Lucknow, India. *WE – A Multidisciplinary and Multilingual Peer-Reviewed Research Journal*, 2, 2, 9-19.

Books/Chapter in Books

Kumar M. et al., (2021). *Flying colours of platinum jubilee celebrations: a treatise of anthology of tested knowledge*. New Delhi: AKS Publishing House

Singh K.P. (2021). *Glorious Years, department of library and information science: pioneer in LIS teaching, research & innovation*. New Delhi: AKS Publishing House.

Singh, K.P. (2021). *A succinct: Kaleidoscopic voyage of academic excellence of department of library and information science, University of Delhi*. New Delhi: AKS Publishing House.

Singh, K.P. (2021). *LIS education: Pragmatic paradigm shift*. New Delhi: Today & Tomorrow's Printers and Publishers.

Seminar/Conference Presentations

Walia, P. & Kumar A., (2021, May 19). Public library system in India in the changing environment: challenges and opportunities, International Online Conference on the Role of Public Libraries in the Social, Economic and Cultural Development of Iran with Emphasis on European Countries' Experiences, AllamehTabataba'i University, Tehran, Iran.

Faculty Strength

07

Number of Ph.D. Degrees Awarded

05

Number of M.Phil. Degrees Awarded

05

Linguistics

Major Activities and Achievements

Considering that almost whole of the span period falls within the COVID-19 pandemic, the faculty members of the department were very active and as a result had distinctions of consistently publishing in journals and books

throughout the period. During the span period the faculty members published 10 research papers/ chapters and presented 21 papers at national/ international conferences. The department also managed to award 6 M.Phils and 03 Ph.Ds during the period. The



department also organized 01 online international conference during the same period.

Honours/Distinctions

Tanmoy Bhattacharya was appointed Chairperson, Expert Committee on development of training program on Indian Sign Language, by the Rehabilitation Council of India.

Tanmoy Bhattacharya became the editor of the journal Indian Journal of Critical Disability Studies.

Tanmoy Bhattacharya as an Associate Editor: Linguistic Variation (John Benjamins).

Shobha Satyanath was Nominated as Member of the scientific committee for Sociolinguistic Symposium [SS24] and Scientific Review Committee [SS24] Ghent University.

Shobha Satyanath was Nominated as a Member, Regional Advisory Committee GLOBAL (The global council on anthropological linguistics) at SOAS, University of London.

Shobha Satyanath is an editorial board member of the Journal of Sociolinguistics [JSLX], Wiley.

Publications

Research Articles

Bhattacharya, T. (2021). Awakening inherent linguistic structures: modification and order. *Language and Language Teaching*, 21, 11, 27-36.

Satyanath, S. (2021). Genealogies of sociolinguistics in India. *Journal of Sociolinguistics*, 5, 25, 762-784, 1.

Das M. (2022). The study of bilingual dyslexic children learning hindi and english at morpho-phonological level. *Journal of social science and humanities research*, 3, 7.

Bhatia, S., Dillon & Brian., (2022). Processing agreement in hindi: when agreement feeds attraction. *Journal of Memory and Language*, 104322, 125.

Krishna, P.P. & Mishra, R.K. et.al., (2021). The effects of short-term L2 training on components of executive control in Indian

bilinguals. *Cognitive Processing*, 2, 22, 339-351, 1.

Krishna, P.P. & Arulmozi, S. et.al., (2022). Do you see and hear more? A study on Telugu perception verbs. *Journal of Psycholinguistic Research*, 3, 51, 473-484, 1.

Kumar, N.K. (2021). A Phonemic inventory of vowels in Thoti. *Bhaveena*, 9, 18, 144.

Seminars/Conferences Organized

Shobha Satyanath, Prof., University of Delhi, CICS organized a seminar on Researching communication during police questioning minors, emergency medicine consultation and business communication: The challenges and opportunities of interdisciplinary research between linguists and practitioners in the field of institutional communication on 01.01.2022.

Seminar/Conference Presentations

Bhattacharya, T. (2022, March 21-26). Clause and sentences in 47tuden languages, Training Programme on Language Documentation held virtually at SPPEL, CIIL, Mysuru.

Bhattacharya, T. (2021, October 21). Questioning disciplinary normatives: Teachings from sign linguistics, Deccan College, Pune.

Bhattacharya, T. (2021, October 9). Relating Tibeto-Burman to Dravidian: An unfinished story", Special Talk Series of TiBLANEI (Tibeto-Burman Linguistics Association of North East India).

Bhattacharya, T. (2021, July 22). Syntactic Poverty" of the East: A Case of diversity at the periphery", invited talk delivered at the Language and the Problems of Justice conference.

Bhattacharya, T. 2021, (July 28) "The lack of argument indexation in some "inner" Tibeto-Burman languages", paper read at the International Conference of Tibeto-Burman Linguistics Association of North East India, Tezpur University.



Bhattacharya, T. (2021, June 28) 'Agree' in Kuki-Chin and Kiranti languages. Paper read at the International Conference of Tibeto-Burman Linguistics Association of North East India (jointly with Jyoti Sharma) Tezpur University.

Bhattacharya, T. Baisya, E., & Sharma. J., (2021, June 29). Comparing Embedded Clause and non-Nominative Subjects in Indo-Aryan and Tibeto-Burman, International Conference of Tibeto-Burman Linguistics Association of North East India, Tezpur University.

Satyanath, S., (2021, December 7). Language as a social-historical construct, University of Tezpur, Assam.

Satyanath, S., (2021, December 3). Towers of Babel: Language diversity and multilingualism in India, University of Ku Leuven, Belgium.

Satyanath, S., (2022, March 23). Multilingualism, language in NEP: What is there in it for us?, National Webinar on Language UGC-Human Resource Development Centre Mizoram University.

Satyanath, S., (2021, August 26-28). Caste and social differentiation of speech. Keynote speech (with Ranjan Kumar), Cross-cultural Sociolinguistics: Insights from Asia, Africa, and Latin America, NYU and University of Cologne (Sociolinguistics Lab: International Collaborations: research Workshops).

Satyanath, S., (2021, June 7-10). Expanding footprints of sociolinguistics in Asia-Pacific: Decolonising Sociolinguistics, Panel on decolonizing, unsettling and rebuilding

sociolinguistics at Sociolinguistics Symposium 23, The University of Hong Kong.

Bhattacharya, T., (2022, March 14-26). Research methods & techniques (in Bangla), Training program on Research Methodology in Language, Literature, and Culture- Bengali.

Bhatia, S. (2021, August). Preverbal syntactic complexity & local coherence effects. South Asian Forum on the Acquisition and Processing of Language, University of Potsdam, Germany.

Krishna, P.P. & Arulmozi, S., (2021, August 22-17). A cognitive study of tactile perception in Bilinguals, 43rd European Conference on Visual Perception, (ECVP) 2021.

Sharma V.M.S. & Rani, P.V., (2021, January 7-8). Documentation of Erukala, 2-day workshop on Research output 2020, (CenTra and ACSS) 2021.

Extension and Outreach Activities

Tanmoy Bhattacharya organized a Critical Disability Studies in India reading group with disabled scholars of Delhi University

Faculty Strength

01

Number of Ph.D. Degrees Awarded

03

Number of M.Phil. Degrees Awarded

06

Modern Indian Languages and Literary Studies

Brief History

The Department of Modern Indian Languages and Literary Studies was established in the year 1961. It is the first and only one of its kind in the Indian University system, in its institutional and methodological structure that enables a

dialogue among Indian Literature, Languages and Cultures. It runs Master Programmes in Bengali, Comparative Indian Literature and Tamil, and Certificate, Diploma and Advanced Diploma courses in 11 Indian Languages. The research programme in the field of



Comparative Indian Literature, Folklore and Indian Languages and Literature, initiated by the Department, have drawn the attention of scholars from India and abroad. The Department has produced a good number of scholars in these fields during these years. The Master programme in Comparative Indian Literature has also come to limelight for its unique design and its relevance in the multi-lingual and multi-cultural situation of India, where a wide variety of literatures are produced in different languages. Department has also undertaken various initiatives under the ongoing UGC-DRS assistance. Under this scheme, the thrust areas are: Comparative Indian Literature, Translation Studies and Indian Folklore and Tribal lore. A series of National level seminars on these thrust areas have been organized during these years and few volumes have been published. The department shares the legacy of scholars and literary figures of national and international reputation i.e. Prof. R. K. Das Gupta, Prof. Chandrakant Mehta, Prof. Sisir Kumar Das, Prof. Harbhajan Singh, Prof. Indira Goswami and Prof. Indira Parthasarathy.

Major Activities and Achievements

The department organized curriculum development workshops for the languages Assamese, Bangla, Gujarati, Tamil and Telugu and submitted the Syllabi for Undergraduate Programmes under NEP 2020.

Books/Chapter in Books

Rajagopal, G. (2021). *Re-reading of Classical Tamil Literary Works: Chronicles of Ancient Tamils' Life*. Chennai: Discovery Publications.

Seminars/Conferences Organized

Dr. Dinesh Tyagi & Dr. Namita Deka, Department of Psychiatry, Dr. Baba Saheb Ambedkar Hospital and Medical College, University of Delhi organized a seminar/conference on Effect of Covid Pandemic on Indian Educational Ecosystem and Role of our Culture on Psychological Resilience on 08.03.2022.

Seminar/Conference Presentations

Rajagopal. G. (2022, February 25). Mu.Va. Eṅṅum Pērāḷumai ("Mu.Va. – The Great

Personality"), Instituted in the name of Dr. Mu. Varadarājanār Memorial Endowment Lecture, Department of Tamil Language, University of Madras, Chennai.

Rajagopal. G., (2022, March 9). Camakāla Tamiḷiyal Ārāycci Āḷumaigaḷ - Prof. David Shulman" ("Contemporary Tamil Research Personalities – David Shulman"), Tamil Development Endowment Seminar organized by the Department of Tamil Language, University of Madras, Chennai.

Chakraborty, A., (2022, February 21). Delhi me Bhashashiksha aur Anubad ki Sambhavana", National Webinar on International Mother Language Day, Mahila Mahavidyalaya, Benaras Hindu University, Varanasi.

Chakraborty, A., (2021, July 6). Corona Atimari O Manab-Samparka", International Seminar on "Corona Atimari O Manabikata", Department of Bengali, Ambedkar College, Tripura.

Chakraborty, A., (2021, September 14). Ekush 49tudent naari swadhinata: deshe deshantare, Valedictory Lecture, International Seminar, Department of Bengali, Deshbandhu College, University of Delhi, International Society of Bengal Studies.

Chakraborty, A., (2022, March 5). Rabindra Kumar DasGupta,'s Idea of comparative Indian scholarship: Towards a 21st Century Re-formulation", International Conference on Comparative Literature: Frames, Methods and Practice, Department of English and Department of Marathi Shreemati Nathibai Damodar Thackersey (SNDT) Women's University and Calcutta Comparatists 1919.

No. Of Students Under Exchange Programme
02

Faculty Strength
11

Number of Ph.D. Degrees Awarded
11

Number of M.Phil. Degrees Awarded



07

Other Significant Information

Our department is preparing to introduce new courses Language, Literature, Culture and Translation on the basis of NEP 2020.

Persian

Brief History

Department of Persian got established with the inception of the University of Delhi in 1922 itself. The department got separated from an erstwhile combined department of Arabic, Persian and Urdu. The Dept. of Urdu was established as an independent dept. only in 1959. Later on the remaining departments too bifurcated into separate departments of Arabic and Persian in 1978.

It is a matter of great satisfaction that the dept. has succeeded to some extent in its mission, and today the department has to its credit more than 50 awarded Ph.Ds. For the exchange of views, periodical gatherings and meetings with distinguished academicians are arranged. The department conducts a seminar once a week for the benefit of students. Apart from this, the department also organizes seminars, conferences and workshops that provide a good opportunity for sharing views with different scholars of the field.

Major Activities and Achievements

The department organizes weekly seminars in which students actively participate and present their research papers. Department of Persian also organizes special lectures from time to time to impart and update our students regarding new mythologies of research and thesis writing. The department of Persian from time to time organizes special lectures related to the research topics of the students. During corona almost 18 such lectures were organized by the department.

Honours/Distinctions

Saadi Award by the Saadi Foundation Tehran Iran:

Prof. Rajinder Kumar

Prof. Aleem Ashraf Khan

Publications

Research Articles

Kumar R., (2021). Khairul majalis: manbay-e-tarikhe- seyasi-e- wa ijtemayi wa dini-e-qarn-e-chahardahum milady-e-hind. Persian Research Journal, Special issue, 60-64.

Kumar R. (2021). Realism wa naturalism der dastan-e-antari ke looteyash mudesh bud, 12-17.

Kumar R. (2021). Aalaviyeh kham: dastane reyalistiye Hedayat, Persian Research Journal, 16-20.

Kumar R. (2022). Khayabane gulistane kham arezo, Persian Research Journal, 18-22.

Khan, A.A. (2021). Qarn-e- chahardahum wa adab-e- akhlaqi dar Fawaidul Fuwad, Persian Research Journal, 07-18.

Khan, A.A. (2022). Muarrafah –e-Tarjamah-e- \bustan az Zahoor Bakhsh be zaban-e- Hindi. Persian Research Journal, 10-18.

Khan, A.A. (2022). Muhammad Husain Bahjat Tabrezi ya Shaharyar wa wizgi-e-Sher-e-ou. Persian Research Journal, 09-16.

Shah, A.A. (2021). Barrasi-I Mohtawa-I maktubat-I Syed Mohammad Husaini Banda Nawaz Gesudraz, Persian Research Journal, 90-97.



Shah, A.A. (2021), Naqd-o-barrasi-I Bazi az Asaar-I Razia Tujjar. Persian Research Journal, 60-69.

Shah, A.A. (2021), A comparative study of Sangeetratnakara and Lahjaat-I sikadar Shahi va Lataef-I Namootanahi a Persian translation. Persian Research Journal, 1-6.

Shah, A.A., (2022), Barrasi -I Mukhtasar-I tarz-I nigarish-I sharh-I bustan benaam-I anhaar-ul-Asraar. Persian Research Journal, 29-36.

Jahan, M. (2021). Tarikh-I Firozshahi Shams Siraj Afif: Baaztab-I Jamia wa Farhang-I Qarn-I Chahar4dahum-I Miladi. Persian Research Journal, 80-89.

Jahan, M. (2021). Fehrist-I Majalla-I Tahqiqat-I Farsi, Persian Research Journal, 31-39.

Jahan, M. (2022). Muarrafi-I Bagh-I Urdu: Tarjuma-I Gulistan-I Saadi az Mir Ali Sher Ali Afsos. Persian Research Journal, 23-28.

Journals

Persian Research Journal, Department of Persian

Faculty Strength

Permanent: 04

Adhoc: 2

Number of Ph.D. Degrees Awarded

04

Number of M.Phil. Degrees Awarded

01

Philosophy

Major Activities and Achievements

Lecture/conference organized by Dr. Sujata Roy and Dr. Reetu Jaiswal Worked as a member of the organizing committee in Two International Webinars on The Philosophy and Practice of Sri Aurobindo, Sponsored by ICPR in collaboration with Sri Aurobindo Ashram, New Delhi on 25th-26th February, 2021, and 29th-30th April, 2021.

Dr. Gautam Kalotra Organized Online Lecture on the 'PrathamBhāratīyaDārśanika Divas' celebrated Birth Anniversary of Adi Guru Shankaracharyaon 17th May 2021 as a Coordinator by University of Delhi and ICPR, Delhi.

Dr. Reetu Jaiswal was Course-coordinator of a 3-months online certificate course on "The Feminist Philosophy" (April, July, and August 2021), organized by the Department of Philosophy, University of Delhi under MAP project in collaboration with The Philosophy Project. Sponsored by ICPR.

Dr. Aditya K. Gupta, organised International Day of Yoga June 21st, 2021.

Publications

Research Articles

Gupta, A. K. & Saraf, K., (2021). Re-Religion in a globalized world: exploring advaitic dimensions-learning to be Human. WE, July, 2, 34-36.

Gupta, A.K. (2022). Meditation, consciousness and transcending biological limitations. Science India, March, 1, 37-39.

Books/Chapter in Books

Balaganapathi, (2021). *Justice and responsibility: Re-learning to be human*. Washington DC: The Council for Research in Values and Philosophy.

Jaiswal, R. (2021). *Journalistic Responsibility in the Age of Commercialism*. Washington DC: The Council for Research in Values and Philosophy.



Mitra, E. (2021). *On Consent as a Form of Living State of Democracy in India: Life and Politics in Contemporary Times*. Delhi: Manas Ray Sole Primus Books.

Research Projects

Institute of Eminence, Delhi University (Dr. Aditya K. Gupta,), 2021-22, on Seven Levels of Consciousness (Seven Chakras), 1.5 Lacs.

Institute of Eminence, Delhi (Dr. Reetu Jaiswal) University, 2021-22, The genealogy of veiling: Uncovering the 'covered' and the 'uncovered', 1.5 Lacs.

Seminars/Conferences

Sharma A.D. (2021, 17 May). I.C.P.R, PrathamBhāratīyaDārśanika Divas.

Rajeshwar, (2021, 21 June). Kaivalyadham, Ionawla, Self, International Yoga Day.

Seminar/Conference Presentations

Singh R.M. (2021, June 24). The modularity trouble, Kyoto University, Japan.

Mitra, E. (2021, June 24). Roots of ecological sensitivity in Gandhi's view of chaturvarṇa and niṣkāma karma, United Nations Sustainable Development Goals, 2nd Webinar on Revolutions in Renewable Energy in 21st Century (VirtualFOREN-21).

Chopra, N. (2021, June 3). Intentional neurodynamics of enactive being, 2021, ICPR, Delhi for the World Philosophy Day, Department of Philosophy, Panjab University, Chandigarh.

Kalotra, G. (2021, June 28). Reading Indian philosophical traditions, KMV College Jalandhar (Punjab).

Gupta, A. K. (2021, June 17). Dharma and possibility of interfaith dialogues, 3rd

International Conference on Religiosity and secularism in Futuristic Context, Buddhist and Pali University of Sri Lanka.

Gupta, A. K. (2021, June 27). The science of meditation' at 'world yoga festival', 'World Yoga Community, New York U.S.A.

Gautam, A. (2021, October 30). Philosophical foundation of information ethics, One Day National Webinar on the topic, Applied Philosophy: Some Contemporary Issues, Department of Philosophy, Ramanujan College.

Kumar K. (2021, October 27). Ambedkar's idea of democracy and ideal society, Sophia Society, Department of Philosophy, Lakshmi Bai College, University of Delhi.

Kumar, K. (2021, October 15-16). Ambedkar's conception of religion and its relevance, National Seminar on Dr. Ambedkar, Buddhism and the Post Pandemic World, organized by Nagarjuna Training Institute, Nagaloka, Nagpur.

Gupta, A.K. (2021, August 14). Importance of national integration in national building, Atmaram Sanatan Dharma College, Delhi University.

Faculty Strength

14

Number of Ph.D. Degrees Awarded

08

Number of M.Phil. Degrees Awarded

10

Other Significant Information

First ranking department in India by QS Ranking 2021-22.



Psychology

Brief History

Masters in Psychology was introduced in Delhi University in 1957 under the Department of Philosophy and Psychology. Prof. H.C. Ganguli established the Department of Psychology as an independent department in 1964. Founded in 1981, the Department has 2 units, 1 in North (offering M.A. Psychology, Ph.D. program) and 1 in South Campus (M.A. Applied Psychology). For its achievements in teaching-and-research, the UGC identified the department as Department of Special Assistance in 1989. The 2 thrust areas identified were Cognitive and Applied Social Psychology. In 2015 UGC recommended the Department for Special Assistance Programme. In Antardhwani-DU Cultural Fest (2013), the Department ranked "Second" in the "Awards for good practice" category. Among the innovative and constructive approaches adopted are multi-text, multi-method interactive-pedagogies, experiential-learning methods, audio-visuals, role-plays, simulations, field-work, workshops, dialogical methods, action research, and university-community models. Departmental facilities include Developmental Research Centre, Psycho-Physiological Laboratory, Psychological-Assessment Laboratory, Hybrid Classrooms, Counseling Centre, Department's Library.

Major Activities and Achievements

Department has set up a Developmental Research / Observation Center for children with an aim to work with children having special needs and learning disabilities.

Department has set up a counseling center "Manastha" to cater to the mental health needs of diverse students and other individuals facing challenges of adjustment, stress, etc.

Research Department of Applied Psychology (South Campus) successfully organized an Alumni meet.

Book-reading club and film club for all students; open to the other departments to create an interdisciplinary forum.

Anima Sen Memorial Lecture Series Go-Green Plantation Drive Student-run independent magazine.

Go-green Plantation Drive

Student-run independent magazine.

Honours/Distinctions

Dr. SPK Jena received the following awards: Dr. H. N. Murthy Oration Award, for Contribution to Behavioural Medicine, Indian Association of Clinical Psychologists, 28, May 2021.

Best Poster award for 'Effects of positive airways pressure therapy on cognitive functions of females suffering from obstructive sleep apnea', in 47th National Annual Conference of Indian Association of Clinical Psychologists, 28 May, Pune.

Publications

Research Articles

Mahakud, G.C., Arora, S. & Kaur, J., (2022). Marital adjustment and quality of life of spouses of alcoholics in relation to their socio-economic status. *Health and Population*, 2, 45, 79-85.

Mahakud, G.C., Kaur, J. & Arora, S., (2021). Psychological coping for the mistress, anxiety and depression in police. *The International Journal of Indian Psychology*, 4, 9, 1561-1571.

Kumar A., Mahakud, G.C. & Kaur, J., (2021). Comparison of status of on-the-job training and development between employees from public, private, and MNC organisations. *International Journal of Education & Management*, 4, 11, 206-212.

Prakash, N. & Radhakrishnan, S., (2022). Qualitative synthesis and systematic review: precarious employment, pandemic, and well-



being. *International Journal of Creative Research Thoughts*, 10, 3, 36-46.

Rao, P.A., Bhardwaj G., & Mishra, P.K., (2021). Clinical empathy and dispositional empathy among medical professionals. *The International Journal of Indian Psychology*, 9, 4.

Tripathi, P. & Gupta, V., (2021). Understanding lockdown experience and its relationship with psychological well-being in young married adults: An exploratory study during nationwide lockdown due to covid-19 pandemic. *The International Journal of Indian Psychology*, 9, 1, 1123-1134.

Kaushik, P., & Jena, S. P. K., (2022). Effect of cognitive-behavioral intervention on electroencephalographic band powers of children with learning difficulty under eyes-closed and eyes-open conditions. *Arquivos de Neuro-Psiquiatria*, 80, 3, 224-232.

Singh P. & Jena, S. P. K., (2022), Does cognitive load lead to delayed performance. *Journal of Positive School Psychology*, 48, 4, 1141-1149.

Mukund, B. & Jena, S. P. K., (2022). Qualitative analysis of school children's experience of receiving "Coping Cat Program": a cognitive-behavioral therapy program for high anxiety. *Psychology in Schools*, 6, 2, 1-21.

Yadav, K. & Jena, S. P. K., (2021). Mindfulness based therapy: in cancer patients: meta-analysis. *Asian Pacific Journal of Cancer Care*, 6, 3, 329-338.

Kaushik, P. & Jena, S. P. K., (2021). An evaluation of programme for enhancing academic and behavioural learning skills (peabls) for enhancing behavioral and cognitive skills among students with learning difficulty. *Education India Journal: A Quarterly Refereed Journal of Dialogues on Education*, 10, 2, 126-138.

Chaube, N. Oarekh, P. & Jena, S. P. K., (2021). Personality trait and paranormal beliefs of psy-experiments. *Indian Academy of Applied Psychology*, 47, 1, 102-111.

Yadav, N. & Jena, S. P. K., (2021). Psycho-economic impact of COVID-19. *International Journal of Indian Psychology*, 9, 2, 2348-3429.

Kaushik, P. & Jena, S. P. K., (2021). Self-regulation learning strategies and academic performance in students with learning difficulty. *International Journal of Behavioral Science*, 14, 4, 172-177.

Mukhija, K., Rawat, O., Baid, S., & Gupta, V., (2022). Impact of psychosocial and demographic factors on acceptance of disability. *Disabilities and Impairments*, 36, 1, 15-24.

Tripathi, P. & Gupta, V., (2022). Assessment of burnout and vaccination rates in doctors during onset of second wave of covid-19 in India. *International Journal of Indian Psychology*, 10, 2, 494-506.

Ralli, A., Guha, P. & Gupta, V., (2021). Death of a parent: understanding vulnerabilities and challenges of young adults using thematic apperception test. *International Journal of Indian Psychology*, 9, 1, 1742-1751.

Agarwal, S. & Prakash, N., (2022). When silence speaks: exploring reasons of silent treatment from perspective of source. *International Journal of Trend in Scientific Research and Development*, 3, 6, 1458-1472.

Books/Chapter in Books

Jena, S.P.K., (2021). *Indian journal of clinical psychology*. India: Indian Association of Clinical Psychologists.

Research Projects

DST (Cognitive Science Research Initiative), Govt. of India, 2019-present, To evaluate the effect of Neurofeedback Intervention Training Module (NITM) on emotional regulation, impulsivity and aggression in juvenile offenders, Major grant (Co-PI: Prof. SPK Jena).

Rajiv Gandhi National Institute of Youth Development, Govt. of India, 2016-2021, Developing Resilience and Entrepreneurship



Skills in Underprivileged Youth Below Poverty Line (PPL): A Randomized Controlled Trial, Major grant (PI: Prof. SPK Jena).

Faculty Research Program (FRP) Grant – Institution of Eminence, University of Delhi, 2021-2022, Back to the Classroom: Understanding attitudes and emotions of Teaching Faculty as They Return to In-Campus In-Person Teaching Modality Post Pandemic, Rs. 1,32,500/- (PI: Dr. Nidhi Prakash).

Seminar/Conference Presentations

Jena, S.P.K., (2021, May 28). Effects of positive airways pressure therapy on cognitive functions of females suffering from obstructive sleep apnea, 47th National Annual Seminar of Indian Association of Clinical Psychologists.

Jena, S.P.K., (2021, May 28). A 10-week' Tele-mental health counseling services in a university during COVID 19: An interim report, 47th National Annual Seminar of Indian Association of Clinical Psychologist.

Faculty Strength

Permanent Faculty:

North campus: 08

South campus: 02

Ad-hoc Faculty: 03

Number of Ph.D. Degrees Awarded

2 Ph.D. – 1 Supervised and 1 Co-supervised by Dr. Alka Bajpai;

1 Ph.D. – Supervised by Dr. SPK Jena

Punjabi

Major Activities and Achievements

The Department of Punjabi has started an online lecture series under “Theory Contemplation Series”. In this series the Department has organized lectures of eminent scholars on the topics “Modernity and Modernism”, “Post Modernity and Post Modernism”, Feminism and Dalitism etc. The Department of Punjabi also started to celebrate various days of importance which are also declared by UNESCO like International Mother Language day, World theater day, International Day of Yoga, International Woman’s Day and World photography day.

The Department of Punjabi also started a series “Meet the Authors” under which eminent Punjabi Poet Swami Antar Neerav, Gurtej Koharwala and Satpal Bikhi and short story writer Sanwal Dhami addressed the students and research scholars of the Department of Punjabi.

Publications

Research Articles

Ravinder, R. (2021). Sach de talash da chintan-badit. Samkali Sahit, 105, 105, 144-149.

Ravinder, R. (2021). Punjabi sbhiyachar: atet ton samkal tak. Tasman, 1, 1, 135-144.

Singh N. (2021). Pachchmi viyakaran parampraa de sandarabh vich kiriyi visheshanh di sathiti. PARKH, 2, 2, 82-90.

Singh N. (2022). Punjabi kirya visheshan vakansh di sahitak bhomika. Samdarshi, 178, 178, 13-24.

Singh, Y. (2021). Bol mardania: brahmandi nizam da kaynati tassavar. Sanvad, 13, 13, 85-91.

Singh, N. (2021). Puran Singh: kaynati jashan di kavita. PrePoetic, 1, 1, 73-87.

Singh, Y. (2021). Hashiyagat adhiyan: bharti drishti ate pasar. Kaav Shastar, 25-26, 281-288.

Singh, Y. (2022). Hashiyagat adhiyan: kammiyan de vehrhe. Sanvad, 15, 119-127.

Singh, Y. (2022). Punjab: jinnah rahan di main saar na jaana. Sanvad, 16, 172-175.



Singh, Y. (2022). Parvas ate punjabi lok man. *Kaav Shastar*, 28, 95-102.

Bala, R. (2021). 'Shashi Pal Samundra Di Naari Drishti'. *Samdarshi*, March-June 2021, 91-107.

Bala, R. (2021). Shameel di kaav-pustak 'dhoof' di pathgat padat. *SHEERAZA*, 7-22.

Singh B. (2021). The Novel of magical realism. *Goshet*, 6, 6, 31-37.

Singh B. (2022). Kamame anthoni apiha's book-cosmopolitanism-ethics in a world of strangers. *Sirjana*, 203, 71-78.

Books/Chapter in Books

Ravinder, R. (Ed.) (2021). *Guru Tegh Bahadur: ik pustakavali (punjabi-angrezi-hindi)*. New Delhi: Arsee Publisher, New Delhi.

Ravinder, R. (2021). *Lok sahit ate punjabi sabhiyachar (55-72)*. New Delhi, IGNOU.

Kaur, J. (Translator), (2021). *Haneri Ate Hor Kahania*. New Delhi: Sahitya Akadmi, New Delhi.

Singh N. (2021). *Punjabi bhasha ate Gurmukhi lipi da Nikas ate Vikas*, Viyakaran, Viharak Punjabi (05-36). New Delhi: IGNOU.

Singh N. (2022). *Punjabi Bhasha Aur Sahit*. In *Bharat ki Pramukkh bhashaen Samkaleen Pravirtean (405-418)*. Lucknow: Uttar Pradesh Hindi Sansthan.

Dr. Yadwinder Singh (Translator), (2022). *Panjab: jinah rahan di main saar na jaana* (Panjab: Journey Through Fault Lines by Amandeep Sandhu. Amritsar: Singh Brothers.

Gojra, K. (Translator), (2022), *Lahore da pagalkhana*. Patiala: Autumn Art.

Bala, R. (2021), *Madhkali punjabi kaav (103-120)*. New Delhi: IGNOU.

Research Projects

IOE, 01-11-2021 to 30.06.2022, Dhavni Sidhant De Prasang vich Nanak Vani, Rs. 1,07,000/-

Seminars/Conferences

01 Day Harbhajan Singh Centenary Seminar organized by Vanita, Surjit Patar, Harbhajan Singh Bhatia, P.C. Joshi, Manmohan, Anupam Tiwari, Satish Kumar Verma, Jaspal Singh Jaswinder Singh Saini Jaswinder Singh Ishwar Dayal Gaur, Madan Gopal Singh Jagbir Singh Prof.s of Different Universities, Chancellor of Central University of Punjab, Bhatinda, PVC, University of Delhi, Registrar University of Delhi, University of Delhi on 2021, December 01.

01 Day Seminar on Punjabi Language and Computer organized by Prof. Ravinder Kumar Dr. Gurpreet Singh Lehal, Dr. Nachhattar Singh Dr. Tejinder Singh Saini Dr. Rajni Bala, Dr. Ankur Rana, Dr. Yadwinder Singh Er. Manpreet Singh Budhail, Teaching and Technical Faculty of the Department of Punjabi, University of Delhi and Punjabi University, Patiala, University of Delhi on 2022, January 24.

Seminar/Conference Presentations

Kumar R. (2022, February 18). Ru-b-Ru program with Swami Antar Neerav (a poet of Jammu and Kashmir), Department of Punjabi, University of Delhi.

Kumar R. (2021, October, 27). Shri Guru Tegh Bahudar ji di bani vichon ubhardi samajak-sabhyacharak ate adhiyatmak vichardhara', Maitreyi College, University of Delhi.

Kumar R. (2021, June 29). Punjabi bhasha, sahit ate sabhyachar: ateet, vartman ate bhavikh, Hindi Workshop, IIT Ropar (Punjab).

Kaur, J. (2022, March 9). Maat bhasha di hara: sabhiacharak jashan, Sri Guru Govind Singh College of Commerce, University of Delhi, India.

Singh B. (2021, June 7). Punjabi yuva parvas, Khalsa College, University of Delhi, India.



Singh B. (2021, June 22). Punjabi cultural transformation, Gopichand Arya Mahila College, Ahrhas.

Singh B. (2021, October 7). How to write fiction, creative writing workshop, Mata Sundri College, University of Delhi.

Bala, R. (2021, May 21). Virtual learning-challenges and future, Department of History in collaboration with IQAC, S.D. College, Hoshiarpur (Punjab).

Bala, R. (2021, July 13-14). Kulwant Singh virk da kahani sansar; jeevan mullan di talash, Two Days International Webinar (13-14 July 2021) on Kulwant Singh Virk Janam Shatabadi, Department of Punjabi & Departmental Literary Committee, Punjabi University, Patiala.

Bala, R. (2021, Nov 30- Dec 1). Dr. Harbhajan Singh da sampadan karaj: saroop te vidhi-vidhan, Two Days Centenary Seminar (30th November-1st December 2021) on Harbhajan Singh Department of Punjabi, University of Delhi, Delhi.

Singh Y. (2021, July 13-14). Kulwant Virk: nave mulk di nabaz tohndian', Two days International Webinar on the Birth Centenary of Kulwant Singh Virk, Department of Punjabi, Punjabi University, Patiala.

Singh Y. (2021, July 21). Panjab: scattered leaves of a sacred book, Online extension lecture at Punjab Darshan.

Singh Y. (2022, February 17). Revisiting Prof. Puran Singh Online extension lecture at Bhai Vir Singh Sahitya Sadan, Delhi.

Placement Details

The University of Delhi had organized a placement fair; Students of the Department does not have a record about the placement.

Faculty Strength

07

Number of Ph.D. Degrees Awarded

09

Number of M.Phil. Degrees Awarded

12

Sanskrit

Brief History

The History of the Department of Sanskrit, DU begins with the history of the University itself. The Department came into existence in 1922 when the University had come into existence.

During the first two years of its commencement, the Department ran without postgraduate students. It was only in 1924 that the Department had one student in its M.A. program. Following the practice of the time Mahamahopadhyaya Pandit Lakshidhar Kalla, the senior most of the teachers among the constituent colleges of the University occupied the position of Teacher-in-charge of the Department. As the Department had no faculty members of its own officially recognized some of the senior teachers from the colleges as Readers.

Pandit Lakshmi Dhar Shastri Kalla, the first in-charge of the Department belonged to St. Stephen's College. Those days the Postgraduate classes of the subject of Sanskrit were held at St. Stephen's College. Pandit Kalla pioneered the research programs in the Department of Sanskrit. He had come to the department with an illustrious background to his credit. After completing an archeological apprenticeship under Sir John Marshal, he had joined St. Stephen's College as a lecturer in October 1916. He was an elected member of the Royal Asiatic Society. Apart from being well-versed in several Indian languages, he had the knowledge of Persian, Arabic, Greek, Latin, German, French, Russian and English. His books 'The Birthplace of Kalidasa' and 'The Homeland of Aryans' got high accreditations



from the scholars across the globe. It goes without saying that his contributions in building the Department are unparalleled.

Dr. N.N. Choudhuri of Ramjas College took over as Head of the Department in the year 1949. A full-fledged University Department saw its inception only in the year 1953 when a post of Reader in Sanskrit was created and filled up.

Dr. N. N. Choudhuri of Ramjas College, who was already working as the Head of the Department, was appointed in the said position of Reader and was asked to take over as the first regular Head. In 1955 a position of Prof. was created. Dr. N. N. Choudhuri was appointed as the first Prof. For a long time, the principal focus of the Department was to provide instructions to Undergraduate and Postgraduate courses. Research occupied prime attention only few years later. Dr. Ram Gopal was the first Ph.D. student of the Department in the academic year 1953-54.

Even in the late fifties, there used to be only five or six students in its M.A. program and one or two students in Ph.D. program. This situation continued for a number of years. It was only during the early sixties that a marked improvement in the numbers of students was seen. From being a small Department, it has now grown to be one of the biggest Departments in the University with more than four hundred postgraduate students, more than one hundred fifty research scholars and more than one hundred fifty teachers in colleges and the University Department.

The Department of Sanskrit enjoys the pride of having some of the stalwarts in the subject as its faculties in the past. Prof. R V Joshi, an internationally acclaimed Sanskritist introduced the modern European research methods to the Department. He is the recipient of Sahitya Academy award and 'Pravasi Bhartiya Sammana'. The special feature of the creative strength of Prof. Joshi has been his ability to author in Hindi, Sanskrit, French, Spanish and Latin with equal ease. He has the credits of publishing books and articles in all these languages. He has published the

books from USA, Europe and India. He has composed fifteen Kāvya and Mahākāvya in Sanskrit and has edited and translated several books with detailed introductions and critical notes. Dr. Joshi has published more than thirty-eight books and hundreds of scholarly articles in national and international journals. Some of his major works are 'Satyam' – The Eternal Truth, Radhāpanchashati, Upasanacintamani (A book in eight volumes consisting of 400 pages), Swarnamala – An Encyclopedia in four volumes, Bhaktimimansa in four volumes, Shivalinga Rahasya, an epic Ramapratapacaritam in two volumes, Yogsutra Patanjali (in Spanish), Laxmi-nrsimha-sahasranama-stotras, Vide di un Saggio Parma, Italia etc. Prof. Satyavrat Shastri, former Prof. and Head of the Department is another highly acclaimed Sanskrit scholar, writer, grammarian and poet. He has written three Mahakavyas, three Khandakavyas, one Prabandhakavya, one Patrakavya and five works in critical writings in Sanskrit.

During his career he has won many national and international awards including the Sahitya Akademi Award for Sanskrit. Sahitya Academy conferred on him an award in the year 1968 for his poetry work, Srigurugovindasimhacharitam. He became the first recipient of the Jñanpith Award in Sanskrit language. He also served as Vice-Chancellor of Shri jagannath Sanskrit University, Puri, Odisha.

Dr. S S Rana, Former Reader of the Department served as Dean of the Colleges, University of Delhi for more than 12 years. He also served as Principal of Shivaji College, University of Delhi. Prof. Vachaspati Upadhaya, the former Prof. and Head of the Department served as Vice-Chancellor of Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeeth, New Delhi for a longest period of time (1994 to 2011). Prof. Satyapal Narang, Former Prof. and Head of the Department served as Director, Institute Francaisede Indologies, Pondicherry. Former Prof. and Head of the Department Dipti Sharma Tripathi served as Director of National Manuscript Mission, Government of India for two consecutive terms -2010-2014. Dr. Shashi



Prabha Kumar former Prof. of the Department served as Founder Vice-Chancellor, Sanchi University of Buddhist-Indic Studies, Sanchi, MP. She also served as Chairperson, School of Sanskrit and Indic Studies, JNU, New Delhi.

Major Activities and Achievements

Celebrating Swatantrytra Amritostava Sanskrit Diwas on 21.08.2021 through online google meet link Department of Sanskrit, Delhi University, Delhi.

The Department of Sanskrit, University of Delhi, Delhi is organizing a three day National Seminar on Science & Technology in Vedic Literature and It's Relevance In Modern Perspective (वैदिक साहित्य में विज्ञान एवं प्रौद्योगिकी : आधुनिक संदर्भ में इसकी प्रासंगिकता) in collaboration with Maharshi Sandipani Rashtriya Veda Vidya Pratishthan, Ujjain on 23-25 October, 2021.

The Department is organized One day lecture on Epoch-making changes in Sanskrit Language Teaching in the light of NEP-2020 was held on 18.11.2021, Department of Sanskrit, Delhi University, Delhi.

The Department is organized One Day Memorial Lecture Dr. Indra Chandra Shastri Memorial Lecture उपनिषदों का संवाद-सौन्दर्य was held on Monday, 27 December 2021, Conference Centre, University of Delhi, Delhi-110007.

The Department is organized One day National Seminar on "Rewriting of Indian History in the Light of Archaeology and Epigraphy" was held on 29th March, 2022 (Tuesday), in Conference Hall, University of Delhi.

Honours/Distinctions

Re-appointed as University Representative on the Governing Body of Mata Sundri College for Women, w.e.f 26.02.2022.

Appointed as Executive Council Nominee on the Managing Committee of Meghdoot Hostel for two years w.e.f. 18.01.2022.

Appointed as Executive Council Nominee on the Managing Committee of W.U.S. working women Hostel for two years w.e.f. 06.10.2021.

Prof. Ranjan kumar Tripathi Nominated as Joint Dean of Colleges, University of Delhi, w.e.f. 17.12.2021(Office order no – Estab.II(i)/2021/2240 dated 17.12.2021).

Chairman (GB) Shyama Prasad Mukharjee College, University of Delhi wef.14.09.2021. Member of NEP Cell, University of Delhi (The committee constituted by competent authority, University Delhi, Notification no - Acad.I/NEP2020/2021/912 dated 23.11.2021).

Member of B.A. Program, University of Delhi (The committee constituted by the honourable Vice Chancellor, University of Delhi, Notification no- Acad.IB. A. Prog.Com/2021-2022 dated 02December 2021).

Nominated as a Chairperson for translation (Hindi & Sanskrit) committee of UGCF 22, University of Delhi, the committee constituted by Competent Authority, University of Delhi (Notification no Aca.1/UGCF 22/2022/R-2887 Dated 10.02,22.

Member of Board of Studies in the Department of Sanskrit & Vedic Studies, BBAU (Central University) Lucknow wef 23.07,2021 to 22,07.2024.

Member of Board of Studies at Amity Institute for Sanskrit Studies and Research, Amity University, Noida, UP wef.18.02 2021 to 17.02.2023.

Member of Research committee (As an external subject expert) at Shri Lal Bahadur Shastri National Sanskrit University, New Delhi (From 2019 to 2021).

Member BRS, Faculty of Arts, University of Delhi.wef. January 2021 to January 2023.



Nominated as VC Representative (Member of Governing Body) at SPM College, University of Delhi, Delhi w.e.f. 25.02.2021 to 24.02.2022.

Prof. Ranjit Behera Member, Research Board & Publication Committee, Central Sanskrit University, Jankpuri, New Delhi.

Member, Editorial Committee, Bharatavani Project, Govt. of India, CIIL, Mysore, Karnatak Member, Executive Committee, Delhi Sanskrit Academy, Delhi Convener, Central Admission Grievance Committee, University of Delhi 2021-22.

Member, Governing Body, Deshbandhu College, University of Delhi from 10.2.2021 to till date.

Member, Board of Studies for Veda, Faculty of Vedic Studies, Kavikulaguru Kalidas Sanskrit University, Ramtek, Maharashtra w.e.f. 19.5.2021 for two years.

Chairperson, WUS University Hostel for Women, University of Delhi from 26.10.2021. Member, NAAC Committee to implement and promotion of Assessment and Accreditation of Sanskrit Universities and Colleges w.e.f. 19.08.2021.

Publications

Research Articles

Dwivedi, M. (2021). Bhārtīya jñāna-sanskrit-sevi svātantrya-senānī. Paṇḍita-hīrālāla-śāstrī. Swaramaṅalā, April- Sept 202, 21-34.

Dindoriya, V.P. (2021-2022). National sentiment in modern 60 student 60 dūtakāvya: An overview. Prācyaprajñā, (A Refereed Research Journal), 34, 174-179.

Shukla, B. (2021). भारतीय ज्ञान परम्परा का सातत्य, *उन्मीलन*, 34, 2, 05-90.

Shankar, U. (2022). Vedang-jyotish aur panchvarshatmak yuga ganana. Shodhsamhita, I(VI), VIII, 179-182.

Shankar, U. (2021). Krishiparasharokt disha beej sanskar- vapan vidhih. Shodhsamhita, 12(I), VII, 66-71.

Shankar, U., (2021). Vishnuvikrantmurtyabhilekhe sahiykaprayogah. Shodhprabha, 04, 46, 185-191.

Shankar, U. (2021). Yagya-karm prakriya mein vedic jyotish ka mahtvapurn yogdaan. Jyotirved-Prasthanam, 10, 5, 6-10.

Meenakshi (2021). Vedic avestiyoh yajnavidyoh samyavaisyamya. VVRI, journal, June-December, LVI-VII, 10-17.

Books/Chapter in Books

Dindoriya, V.P., (2022). *Purāṇetihāsadarpaṇa*. Delhi: Vaksudha Publication.

Dindoriya, V.P., (2022). *Suvrttilakam*, Varanasi: Chaukhamba Surabharati Prakashan, Varanasi.

Dindoriya, V.P. (2022), *Aucityavicāracarcā*. Delhi: Shivalik Prakashan.

Dindoriya, V.P. (2022), *Meghadūta*. Delhi: Upasana Publication.

Dwivedi, M. (2021). *Bhārtīya jñāna-pramparā meṁ Paryāvaraṇa evam Pāristhītikī*. Delhi: Vidyanidhi Prakashan.

Dr. Mohini Arya, (2022, संस्कृत साहित्य का आलोचनात्मक विश्लेषण, Delhi: IGNOU.

Journals

Prof. Balram Shukla, Editor, (2021), हिमांजलि, *भारतीय उच्च अध्ययन संस्थान*, June-December, 25, 1-108.

Prof. Balram Shukla, Editor, (2022), हिमांजलि, *भारतीय उच्च अध्ययन संस्थान*, January-June, 26, 1-123.



Dr. Mohini Arya (2022), शाब्दबोधः तत्सहकारि कारणानि च, *Ananta*.

Dr. Mohini Arya, (2021), व्याकरणदर्शने शब्दस्वरूपम्, *शोधप्रभा*.

Dr. Mohini Arya (2022), Innovation the research concept, *न्याय मत में लक्षणा का स्वरूप*.

Dr. Mohini Arya (2022), उदात्तादि स्वरों का स्वरूप तथा वेदार्थज्ञान में उनकी उपयोगिता, *MANAVIKI*.

Research Projects

Prof. Meera Dwivedi ICPR, 03 years (w.e.f. 2021), Bārtīya Darśana men pratipādita guṇa-trya kī avdhāraṇā kā Sanskrit kāvyāśāstra para prabhāva, 5 Lakh.

Prof. Ranjan Kumar Tripathi, Institute of eminence, university of delhi, 01, स्वातन्त्र्योत्तर संस्कृत काव्यों में अभिनव प्रयोग, 1 Lakh.

Dr. Meenakshi, Institute of eminence, university of delhi, Dec.2021-June2022, a revisit to proto Indo-European language theory in the light of recent textual and archaeological researches, Rs. 1,35,000/-

Seminars/Conferences

“Rewriting of Indian History in the Light of Archaeology and Epigraphy”, (2022, March 29). University of Delhi & ICSSR.

Science & Technology in Vedic Literature and Its Relevance in Modern Perspective (2021, October 25). Maharshi Sandipani Rashtriya Veda Vidya Pratishthan, Ujjain.

Seminar/Conference Presentations

Dwivedi, M. (2022, March 15). Kāvya-guṇa-sandrbhe Kaṇḍana-maṇḍana-vicāra, National seminar, Shri Lalbahadur Shastri Central University.

Dwivedi, M. (2022, March 3). Ādhunika Sanskrit sāhitya men nārī smvednā, Online National Seminar in Light of Shastra-

Vimmarsha, Sanskrit Department, Hindu College, University of Delhi.

Dwivedi, M. (2022, February 24). Sāhitya me strī vimrśa: strī-prayon ke sandarbha men, Online Faculty Develop Program, Miranda College, University of Delhi.

Dwivedi, M. (2022, January 30). Gītā-nāma-rahasya based on Geeta vijnana Bhashya, Online National Seminar, Shri Shankar Shikshayatana, Delhi.

Dwivedi, M., (2022, January 29). Kalidas ka pada-pratyabhijñāna”, National E-lecture Series, Vaishvika Sanskrit Manch, Uttar-Pradesh.

Dwivedi, M., (2021, November 25). Kālidās kī racnāon mem pryāya Vakratā, 4th Refresher Course in Sanskrit, by HRDC JNU.

Dwivedi, M. (2021, November 19). Rasa-Siddhānta, Sanskrit Department, Satyawati College University of Delhi in Satyawati Vyakhyana Mala.

Dwivedi, M. (2021, November 16). Kālidāsasya būgolavrṇanam in the Kalidas-jayanti saptahika-mahotsava organized, Uttarakhand Sanskrit Academy, Rajakiya Adrsha Mahavidyalay Devidhura Dist Campavat (UK).

Dwivedi, M. (2021, October 29). Kāvya-tma-vimarśa, Sanskrit Department, Satyawati College, University of Delhi in Satyawati Vyakhyan Mala.

Dwivedi, M. (2021, October 21). Śvetāśvatropaniṣad men yoga kī avadhāraṇā, Faculty Development Pogram, Hansaraj College, Delhi University.

Dwivedi, M. (2021, October 1). Ādhunika mahilā Sanskrit nāṭakakaron kī jīvana dṛṣṭi in rashtriya e-sammelan, Rajkiya Bangada Sntakottar Mahavidyalay, Pali, Rajasthan.

Dwivedi, M. (2021, September 23- October 14). Amrit-Dhara – (Bharat ki sahitya-sanskritik yatra programme) Programme, Mahakavi



Kalidas Aur Unaka Srijan Sansar, Sahitya-Mela-Manch, Delhi.

Dwivedi, M. (2021, August 29). Sanskrit-sanskriti -samarakṣaṇe mahilānām yogdānam, Webinar, Delhi tate Sanskrit Bharti and Hansraj College of University of Delhi.

Dindoriya, V.P. (2021, June 10). लोकव्यवहार में शब्दशक्तियों का प्रयोग at Department of Sanskrit, DAV College, Jalandhar, Panjab.

Dindoriya, V.P. (2021, June 21). योग द्वारा मानसिक स्वास्थ्य, Department of Sanskrit, SSM College, Dinanagar, Panjab.

Dindoriya, V.P. (2022, January 8). UpaniṢadoĒ meĒ traitavĀda organized by Gurukul Gautam Nagar, New Delhi.

Dindoriya, V.P., (2022, February 28). वैदिक शिव का स्वरूप, Department of Sanskrit, DAV College, Hoshiarpur, Punjab.

Behera, R., (2021, November 30).

Vedabhashyaparampara, 4th Refresher Course in Sanskrit organized, UGC-HRDC, JNU New Delhi.

Tripathi, R. K., (2021, August 2). Guru-shishya-parampara', BSM Delhi Prant & Bhagini Nivedita College, University of Delhi.

Tripathi, R. K., (2022, March 28-29). Shiksha niti (2020) Men Sanskrit Shikshakon Ki Bhumika, Department of Sanskrit, University of Guahati.

Dwivedi, V.S., (2021, November 24-25). Vedo mein krishi vijjan ek paryalochan, National Seminar, SCERT Uttarakhand.

Arya, M., (2022, January 13-15) वैदिक गुरुकुल शिक्षापद्धति की उपादेयता, Three Days International Ved Seminar, Gurukul Prabhat Ashram & Uttar Pradesh Sanskrit Santhanm, Lucknow Uttar Pradesh.

Arya, M., (2022, May 16-17) रामायण में प्रतिपादित मानवाधिकार, Two Days International Seminar, Global Sanskrit Forum.

Arya, M., (2021 October 23-25) वेदों में प्रतिपादित सूर्य चिकित्साविज्ञान, Three Days National Seminar, Deptt of Sanskrit, University of Delhi & Maharshi Sandeepani Ved Vidya Pratishthaan, Ujjain.

Arya, M., (2022, March 1) Wider concept of vedic-teaching on equality, Maitreyi College, University of Delhi

Faculty Strength

28

Number of Ph.D. Degrees Awarded

39

Number of M.Phil. Degrees Awarded

14

Slavonic and Finno-Ugrian Studies

DEPARTMENT OF SLAVONIC AND FINNO-UGRIAN STUDIES UNIVERSITY OF DELHI



Brief History

The Department of Slavonic and Finno-Ugrian Studies is one of the oldest and reputed centers of Russian language and literature studies. The department runs full-time Ph.D., M.Phil., M.A. and one-year Intensive Advanced Diploma courses in Russian language. The department also conducts courses (part-time) in Bulgarian, Czech, Croatian, Polish and Hungarian languages. These courses are hugely popular as the department is the only institution providing teaching of these courses. Having an added diploma in foreign language also enhances the employability of the students of the University of Delhi. This gives the Department an opportunity to conduct a variety of activities beyond classroom teaching. As a routine the Department regularly collaborates with the Cultural Centers of the foreign countries to organize lectures and other activities of visiting specialists and experts, which gives the students an international exposure and widens their outlook. The Department draws a large number of students for its foreign language courses.

Honours/Distinctions

Prof. Ranjana Saxena was nominated member of the International Conference on 'Достоевский в мировой и русской философской мысли: предвестие герменевтики и экзистенциальной аналитики' organized by Tomsk State University, Gorky Institute of World Literature Academy of Sciences and the Losev House, Arbaat, Moscow held on 17-19 June, 2021.

Munjal, Girish nominated as the member of the Editorial board, The Journal of Russian Studies, an international peer-reviewed scientific journal, Registered with the National ISSN Agency of the Russian Federation, ISSN number: 2713-2501 (Print). PUBLISHER: "Institute of Cultural Heritage", Kazan, Republic of Tatarstan, Russian Federation.

Munjal, Girish (Dr.). Member of the Editorial & Referee board, Russian Philology (No. 38-42), a publication of the Department of Russian, English & Foreign Languages University (EFLU), Hyderabad. ISSN 2231-1564.

Publications

Research Articles

Munjal, G., (2021). **Leo Tolstoy's abode "yasnaya polyana": in search of peace & happiness.** A Multidisciplinary and Multilingual Peer-Reviewed Research Journal of Faculty of Arts, DU "WE", 2, 2, December 2021.

Munjal, G., (2022). History of development of translation studies of 20th century on theory and practice of literary translation (Тема статьи: **История развития переводческих исследований XX века по теории и практике художественного перевода**). Russian Philology (No. 41, 2022), a publication of the Department of Russian, CIEFL, Hyderabad.

Saxena, Ranjana (2021). **Актуальность учения Толстого и Ганди в период «пост-правды»** in Critic No. 18,1-11.



Rani, A., & Yadav, S., (2021). **Metaphorical Depiction of Migration in the work of b Denis Gutsko 'Russophone'** Shodh Haastakshep, Journal of the society for Educational Empowerment Varanasi U.P. Vol. 10-11, July 2020-June 2021.

Yadav, S. K., (2022). " **Взгляд на проблему кассового неравенства в стихотворениях Н.А. Некрасова <вор>, <размышление у парадного подъезда>, <железная дорога> и фильме Л.А. Кулиджанова по роману Ф.М. Достоевского <преступление и наказание >** Assonance- A Journal of Russian and Comparative literary studies, 22.

Resslová, V., (2021). **Pollution Diaries: kolektivní text, environmentální 64tudent64re nebo čítanka autentických textů 64tudent českého jazyka na Dillíské univerzitě?** In: Krajiny češtiny, 13, s. 46-48.

Resslová, V., (2022). **Překvapilo mě, že jsem musel víc pracovat.** Krajiny češtiny, 14, s. 38-40.

Margit, K., (2021). **The Call of India: Rabindranath Tagore, Elizabeth Sass Brunner and Elizabeth Brunner**". Karakalpa, IGNC, VI,1, 41-56.

Margit, Köves. (2021). **Tímár Zsófi muskátlija Indiában, Klasszikusok és kortársak újraírása és fordítása tanulás közben**"(Tímár Zsófi's flowers in India. Rewriting Classics and Contemporaries in India during Translation). Tanulmányok (Újvidék) 2021/2, 1-13.

Margit, K., (2021). **Magyar Masala: Magyar nyelvtanítás és kultúra Delhiben**" (Hungarian Masala Hungarian Language Teaching and Culture in India) in: Kultúrdiplomácia Ázsiában szerk. Gulyás Csenge és Szilágyi Zsolt, L'Harmattan, Budapest, 109-126.

Publications (Other than Research Articles)

Szurlej, Tatiana. (2022) Co-edition of a collective volume of **Polish poems translated into Hindi** (translation of some of them), "Sadaneera", Spring 2022.

Szurlej, Tatiana. (2021). **बीस साल बाद: दिल चाहता है**, हंस, सितंबर

Szurlej, Tatiana. (2021) **इरफान खान: जिससे हिन्दी सिनेमा सम्मानित होता था**, हंस, माय 2021 Bulgarian.

Margit, K., (2021). **From Hungary with love.** Frontline, 38, 23 Nov.6-19, 73-75.

Margit, K., (2021). **Steeped in history.** Frontline, 38, 25, December 04-17, 79-80.

Research Projects

Resslová, Veronika, **Specifika a specifické metody výuky českého jazyka ve skupinách indických 64tudent (rodilých mluvčích hindštiny nebo mluvčích hindštiny jako druhého jazyka)**in Engl.: **Specific methods of teaching Czech to native speakers of Hindi (or to speakers Hindi as a second language)** in India Charles University in Prague, Faculty of Arts, 2022/23 – 2025/202.

Exchange Programmes

ERASMUS+ Key Action – Mobility for learners and staff – Higher Education Student and Staff Mobility Inter-institutional agreement 2019-2021 between institutions from Programme and Partner Countries between University of Rijeka Trg braće Mažuranića 10 HR-51000 Rijeka, Croatia Department of Slavonic and Finno Ugrian Studies (Croatian Section), University of Delhi.

Faculty Strength

Number of Sanctioned posts			Present strength of Permanent faculty			Vacant Positions		
Prof.	Associate Prof.	Assistant Prof.	Prof.	Associate Prof.	Assistant Prof.s	Prof.s	Associate Prof.s	Assistant Prof.s
03 (2- Russian/ 1-Slavic)	03	09 (08- Russian\0 1- Bulgarian)	01	-	-	03	03	08

*Three Assistant Prof.s (On ad-hoc basis) working in the Department

*Five visiting faculty from Bulgaria/Croatia/Czech Republic/Hungary/Poland under Cultural Exchange Programme

*09 guest lecturers working in the Department

Number of Ph.D. Degrees Awarded

01

Number of M.Phil. Degrees Awarded

01

Urdu

Publications

Research Articles

Omair, S. (May 2021). Khwateen-e-karbala: kalama-e-dabeer ke aaine mein. Ajkal, 10, 79, 13-15.

Omair, S. (July 2021). Punch tantra: tahzeeb-o-tareekh ke aaine Mein. Urdu Duniya, 07, 23, 11-13.

Seminar/Conference Presentations

Omair, S. (2022, February 13). "Adab-e-Atfal aur Delhi", Wisdom Educational & Welfare Trust with collaboration of NCPUL (MHRD), New Delhi.

Omair, S. (2022, March, 22). Trannum riyaz ki afsanvi inferadiyat, Ekiswein Sadi Ki Khwateen Fiction Nigar, Dream India Research Foundation with collaboration of NCPUL

(MHRD), New Delhi.

Omair, S., (2022, March 7). Urdu shairi ki maujooda surat-e-haal (Ghazal ke Hawale se), National seminar on "Urdu Adab-O-Sahafat ka Haliya Manzernama", Al Hind Taleem Jadeed Foundation with collaboration of NCPUL (MHRD), New Delhi.

Placement Details

ONE: Join as lecture in Inter College, UP.

Number of Ph.D. Degrees Awarded

03

Number of M.Phil. Degrees Awarded

06



Faculty of Ayurvedic & Unani Medicine

All India Institute of Ayurveda

Brief History

The All India Institute of Ayurveda (AIIA) was inaugurated and dedicated to the nation by the Hon'ble Prime Minister of India, Shri Narendra Modi on 2017, October 17. AIIA is a holistic tertiary care Ayurveda treatment center and hospital supported by the latest biomedical tools for diagnosis. Being originally conceived as an Apex Institute for Ayurveda, its objectives include bringing synergy between traditional Ayurveda wisdom and modern tools and technology through scientific validation of fundamental principles and human resource development programs.

AIIA, under the Ministry of Ayush, works with a dedicated vision to be an outstanding center of excellence for Ayurveda Education, Research, and Healthcare. It is a perfect blend of ancient wisdom and modern technology, attracting global attention and expected to boost medical tourism in India in the coming years.

The establishing stones of AIIA are also in line with 'The Triple Billion' targets of the World Health Organization (WHO), an ambitious initiative to improve the health of billions by 2023. All three aspects of the targets - universal health coverage, addressing health emergencies, and maintaining better health and well-being – are being addressed by AIIA through its all-inclusive services that are rendered at a nominal fee.

Major Activities and Achievements

It is a matter of great pride that under the guidance of Ministry of Ayush, the Financial Year 2019-20 was marked by great milestones and accomplishments:

During the celebration of grand event of 'AYUR UDYAMAHA' on 2021, October 29 at Vigyan Bhawan, AIIA iCAINE – All India Institute of Ayurveda – Incubation Centre for Ayurveda Innovation and Entrepreneurship – the first of its kind incubation centre under

the Ministry of Ayush to promote startups was launched.

To provide holistic tertiary healthcare facilities to the people of nation, Blood Bank at AIIA was inaugurated on 2021, October 30 by Hon'ble Minister of State, Ayush Shri Munjpara Mahendra Bhai in presence of Hon'ble Minister of Ayush, Shri Sarbananda Sonowal. Moreover, Bal Raksha Kit, Immunity boosting 'Swarnprashan' drops for children and Qualification Packs under Ayush sub sector Skill Council (HSSC) were also launched. Further, Rasayana and Vajikaran Clinic was established at AIIA on 2022, March 10 to provide healthcare facilities.

National and International MoUs with reputed institutions/organizations were signed bilateral collaboration and cooperation in education, training and research.

A Covid-19 Helpline for handling of queries related to the disease was launched in AIIA in 2020. The same remained functional during 2021 also.

Honours/Distinctions

Dr. Shivani Ghildiyal was awarded of FITM Post-Doctoral Research Fellowship on 2021, April 22 for the proposal entitled "Survey and Study of Traded Crude Classical Ayurvedic Medicinal Herbs in Crude Drug of Markets of New Delhi, Rishikesh and Amritsar".

Dr. Shivani Ghildiyal awarded with Distinguished Scientist Award on Engineering Science and Medicine 2021, August 28-29 at Trivandrum.

Dr. Rajagopala S was awarded with "Bhishak Bhooshan Puraskaram" for Life time achievements by Vagbhatasarani on the occasion of Dhanwanthari Jayanthi Day (2021, November 02).



Dr. Shalini Rai was awarded best Speaker Award by Jupiter Ayurveda College, Nagpur in Transitional Curriculum.

Bhishak Bhooshan Puraskaram to Prof. Dr. Kalpana D. Sathe on the occasion of 16th sastramadhanam November 01-03, organised by Vagbhatsarani and co-organised by Pratinja, University of Hyderabad.

Publications

Nesari, TM., Bhardwaj, A., Shri Krishna R., et. al., (2021). Neem (*Azadirachta indica* A. Juss) capsules for prophylaxis of COVID-19 infection: a pilot, double-blind, randomized controlled trial. *Alternative Therapies in Health and Medicine*, 27(7), 196-203.

Kulkarni, MS., Kakodkar, P., Nesari, TM., Dubewar, AP. (2021). Combating the psychological impact of COVID-19 pandemic through yoga: Recommendation from an overview. *Journal of Ayurveda and Integrative Medicine.*, -(12), 100-433.

Harti, S., Mahapatra, A.K., Gupta, S.K., & Nesari, T. (2021). All India AYUSH post graduate entrance exam 2019–AYURVEDA MCQ item analysis. *Journal of Ayurveda and Integrative Medicine*, 12 (2)(1), 356-358.

Joshi, SS., Bhide, B., Nesari, TM. (2022). Therapeutic efficacy of Guduchi wsr to Madhyama Khanda of Sharangdhar Samhita. *Journal of Ayurveda and Integrated Medical Sciences.*, (3)(7), 150-61.

Pandey, M., Kajaria, D., Sharma, C., & Kadam, S. (2022). Ayurvedic management of pregnant woman infected with SARS-CoV-2 – A case report. *Journal of Ayurveda and Integrative Medicine*, 13(1)(1), 100423.

Choudhary, A., Vyas, M., Bhojani, M.K., & Pathak, P. (2021). Practical application of Langhana therapy in the management of dyslipidaemia: A case reports. *Journal of Ayurveda Case Reports*, 4(3), 4 (3)(1), 111.

Nesari, T.M., Vyas, M., Bhojani, M.K., et. al., (2021). “Surviving the storm through the

shelter of Ayurveda”–International webinar on integrated approach to combat COVID-19– A conference report, *Indian Journal of Ayurveda & Integrative Medicine KLEU*, 2(2)(1), 91.

Nesari, T., Kadam, S., Vyas, M., et. al., (2022). AYURAKSHA, a prophylactic Ayurvedic immunity boosting kit reducing positivity percentage of IgG COVID-19 among frontline Indian Delhi police warriors: A non-randomized controlled intervention trial. *Frontiers in public health*, 2597.

Journals

Prof. Tanuja Manoj Nesari. (2021, April-June). Journal of Ayurveda Case Reports. *Quarterly*, 4(2), 40.

Prof. Tanuja Manoj Nesari. (2021, July-September). Journal of Ayurveda Case Reports. *Quarterly*, 4(3), 44.

Prof. Tanuja Manoj Nesari. (October-December 2021). Journal of Ayurveda Case Reports. *Quarterly*, 1(4), 46.

Prof. Tanuja Manoj Nesari. (2022, Januray-March). Journal of Ayurveda Case Reports. *Quarterly*, 5(1), 45.

Research Projects

Ministry of Ayush, 02 years, Development for early diagnosis of cancer and Assessment of Ayurvedic Drug response in cancer – An Exploratory study (IIT-D), Rs. 10,00,000/-

Ministry of Ayush, 2021, June, Management of Musculoskeletal pain through ayurvedic interventions, Rs. 1,50,00,000/-

ICMR, 2021, October, “Clinical validation of synergistic effect of Vardhamana Pippali Rasayana along with conventional treatment after unraveling its complex molecular mechanism of action in Breast cancer: From Experimental model to Clinical trial”, Rs. 1,50,00,000/-



CCRAS, Ongoing, Validation and Reliability Testing of Ayurveda Diagnostic Methods, Rs. 1,50,00,000/-

AIIA, Ongoing 02 year, Development of Pectin Based Biocomposites of Herb Gojihva (*Launea Nudicaulis* Linn.) for Wound Dressing & its Clinical Evaluation on Chronic Wounds: An Exploratory Study (IIT-D), Rs. 10,00,000/-

Patents Filed/Granted

South Africa Patent (2021/10333) on dated 2022, March 30 and “Clinical competence of Medhya Rasayana combination in mild to moderate Intelligent Quaficient deficit children”.

Granted (grant details - gebrauchsmusters nr 20 2022 101 828, IPC- A61K36/39) on date 2022, May 05 and “A hydroalcoholic composition of Swarna Prashan formulation for pediatric age group”.

Seminars Organized

Dr. Shivakumar Harti, Associate Prof., AIIA, New Delhi, Startups in Ayush Sector, National Seminar on ‘Startups in Ayush Sector – Scope and Opportunities’, 2021, October 29.

Prof. R R Diwedi, Prof. IPGT & RA Jamnagar, Das Vidha Parikshya Bhava, National Seminar as Part of Charak Jayanti Celebration 2021-, 2021, August 09.

Pro. Hitesh vyas, Prof. IPGT & RA Jamnagar, Concept of Disease manifestation in Charak Samhita, National Seminar as Part of Charak Jayanti Celebration 2021-, 2021, August 10.

Dr. Kamini Dhiman, Associate Prof., AIIA, New Delhi, Food Fortification – Myth & Reality, National Seminar of “Rashtriya Poshan Maha”, 2021, September 22.

Dr. Anil Wali, Managing Director, Foundation for Innovation and Technology Transfer (FITT), IIT Delhi, Role of Incubators in nurturing incubatees, Ayurveda Food Expo, 2021, October 30.

Conferences Organized

Hamara Ayush Hamara Swasthya, 2021, August 08, Ministry of Ayush.

Workshop on Management on Musculoskeletal Disorders (2022, Octoer 27-28), 2021, October 27, Ministry of Ayush.

Contributed as Coordinator in Continuing Medical Education (CME) for integrative Oncology organized by Centre for Integrative Oncology, AIIA, New Delhi (2022, February 04-11), 2022, February 02, Rashriya Ayurveda Vidyapeetha.

National Workshop on Prameha on “Development of Transdisciplinary Holistic Ayurveda Research Protocol for Management of Prameha”, 2022, March 28, AIIA, New Delhi.

CME on Basics and clinical applications of radiology at HIMSR, Department of Radiodiagnosis organised by Department of Rog Nidan, AIIA, New Delhi (2021, October 08-09), 2021, October 08, Rashriya Ayurveda Vidyapeetha.

Seminar/Conference Presentations

Dr. Meena Deogade and Dr. Bhargav Bhide, as a co-chairperson participated in the International Conference Ayuryog Expo & Arogya Fair 2021 on 2021, September 25.

Dr. Shivakumar Harti attended the Ayurveda Ahara in Enhancing Poshana as Resource Person which was conducted by Morarji Desai National Institute of Yoga, New Delhi on 2021, October 02.

Dr. Meera K. Bhojani, Resource person for the Workshop & Hands on training on CCRAS Standardized Prakriti Assessment Scale and AYUR Prakriti Web Portal, 2022, February 01-04.

Dr. Kalpana Sathe, Teachers Training Program on Kriya Sharir organized by RAV & NIA, Jaipur. Topic- USE of BMD in academic, patient care and research in Kriya sharir, 2022, March 25.



'Developmental Pediatrics - An Ayurvedic Perspective' at "DASHAHA SAMEEKSHA" – CME, Organized by Dept of Kaumarabhritya, Govt. Ayurveda College, Pariyaram, Kannur, Kerala on 2022, February 21 by Dr. Raja Gopapla S.

National/International MoUs Signed

MoU between AIIA & Delhi Pharmaceuticals Sciences and Research University, New Delhi, Delhi Pharmaceuticals Sciences and Research University, New Delhi on 2021, July 09 - 3 years Collaboration in the education, training and research in health sciences.

MoU between AIIA & National Cancer Institute (NCI) at All India Medical Sciences, Jhajjar regarding Establishment of Centre of Ayurveda and Integrative Oncology at NCI of AIIMS, Jhajjar National Cancer Institute (NCI) at All India Medical Sciences, Jhajjar, 2022, January 28, Establishment of Centre of Ayurveda and Integrative Oncology at NCI of AIIMS, Jhajjar.

MoU between AIIA & Indraprastha Medical Corporation Ltd for Cooperation in Research & Development in the field of Evidence based treatment protocols, Indraprastha Medical Corporation Ltd, 2022, February 02, Cooperation in Research & Development in the field of Evidence based treatment protocols.

MoU between AIIA & VMMC S. J. Hospital regarding establishing of Integrative Medicine Department at VMMC & S. J. Hospital, VMMC S. J. Hospital, 2022, March 25, Establishing of Integrative Medicine Department at VMMC & S. J. Hospital.

MoU with NICM Western Sydney University, Australia, 2021, September 02.

Other Inter-Institutional Collaboration

Project Specific Biparty Clinical Trial agreement b/w AIIA & Institute of Liver and Biliary Sciences (ILBS) Institute of Liver and Biliary Sciences (ILBS), 2022, March 23, Undertaking the Molecular mechanism of

Guduchyadi Tablet in Combating COVID-19 infection-in-Vitro & In-vivo Study.

IIT Project-Design & Development of Fumigation Device to be used as disinfectant Collaborative with AIIA and IIT Delhi ongoing project.

Collaboration with Central Council for Research in Ayurvedic Sciences (CCRAS) for skill development.

Collaboration with National Institute of Unani, Bangalore: NIUM Bangalore.

Collaboration with National Institute of Siddha, Chennai: NIS, Chennai.

Collaboration with International Cupping Therapy Association.

Collaboration with International Sujok Association Therapy Association.

Collaboration with International National Institute of Ayurveda, Jaipur for skill development initiatives.

Collaboration with ITRA, Jamnagar for skill development initiatives.

Placement Details

100%

Extension and Outreach Activities

Camps in different areas for the Delhi police personnel and their family persons of Dhanvantari Rath Department of Stree Roga evam Prasuti Tantra organized, "International Women's Day" on 2021, March 08. The celebration was done throughout the week by arranging Health camps for females in AIIA (staff and OPD patients).

The department of Kayachikitsa celebrated it on 2021, November 17. The programme included the inauguration, patient's diabetes screening health camp with free blood sugar check-up, skit on diabetes awareness, comic presentation on diabetes, rapid fire round



with patients, PowerPoint presentation, and essay competition.

Library Development

Our vision is to kindle the knowledge and support the education and research programs of the institution by providing physical and intellectual access to the information of library.

Faculty Strength

46

Financial Allocation and Utilization

Fund Allocated = Rs. 3,42,82,00,000/-

Fund Utilized = Rs. 3,42,82,00,000/-

Ayurvedic & Unani Tibbia College

Brief History

Ayurvedic & Unani Tibbia college was started by Hakim Abdul Majeed Khan in 1883 in Qasimjan street, in the old part of the Delhi city and was named as Madarsa e Tibbia. It was formally inaugurated on 1889, July 23, by Mr. R. Clark, the then Deputy Commissioner of Delhi. Study of Modern Medicine and Science was a part of syllabus. After his death, his younger brother Hakim Wasil Khan took over the institution in 1903, and later, in 1911 the youngest of the brothers Hakim Ajmal Khan got the reins of the college. Hakim Ajmal Khan, a great nationalist and freedom fighter decided to establish a world class institution of Ayurveda and Unani in Delhi. He travelled to various European Countries including England and Germany for this. He then shifted Madarsa e Tibbia to the present site in Karol Bagh, New Delhi on a 33.33-acre plot of land purchased by him. It was renamed as Ayurvedic & Unani Tibbia college which later came to be known as Tibbia (Medical) College. Lord Harding, the then Viceroy of India laid the foundation stone of the college on 1916, March 29. The college was inaugurated on 1921, February 13, by the Father of the Nation, Mahatma Gandhi. It was run by a managing board established as a trust by Hakim Ajmal Khan. After independence, it was managed by a board established under Tibbia College Act, 1952, which was replaced by a new act known as Delhi Tibbia College (Take Over) Act, 1998. Under this Act the college was taken over by the Government of N.C.T. of Delhi w.e.f. 1998, May 01. The college is affiliated to the University of Delhi since 1973 and is under the Faculty of Ayurvedic & Unani Medicine.

Major Activities and Achievements

College successfully organized various academic and cultural events in the last session. College celebrated an International Yoga Day on 2021, June 21, organized several virtual seminars in different academic disciplines, various outreach health camps were organized, celebrated National Ayurveda Day in 2021, October, National Unani Day and Founder's Day Celebration in 2021, February. An Intra-college sports competition and other cultural activities were also organized in 2021, February. Hospital housed a 100 bedded dedicated COVID Health Centre and a vaccination centre catering the essential health needs of people during the pandemic. A separate 100 bedded makeshift hospital was also established which was inaugurated by the Hon'ble Health Minister of Government of N.C.T. of Delhi on 2022, March 29. Two PSA plants have also been installed in the hospital. More than 100 activities were taken up under the Azadi ka Amrit Mahotsav campaign. All these activities were organized as a collective team effort under the dynamic leadership of Director (AYUSH)/ HoD (Tibbia College).

Students with Distinctions

Sana Khan, Ayesha Khan, Rubina Saifi, Priya Tyagi and Safia Choudhary of BUMS final year secured distinction among others.

Publications

Raghubanshi, Adnan, M., Saleem, M. N., Idris, M. (2022). Physicochemical Standardization of Sufoof Dama Haldi Wala: A Classical Unani



Formulation. *Journal of Bio Innovation*, 2(11): 42-461.

Ansari, M. A., Rahman, R. U. (2021). A clinical study on ziaabetes shakri qism doem (Diabetes mellitus type 2) and its management with Unani formulation, a randomized standard controlled study. *International Journal of Unani and Integrative Medicine*, 2(5): 180-187.

Hashmi, I., Siddiqui, S., Jamal, Y. (2022). Depression Symptomatology Correlation with Mizaj in Young College Students During the Lockdown. *International Ayurvedic Medical Journal*, 6(4): 361-365.

Hashmi, I., Jamal, Y. (2021). An Assessment of the Relationship Between Mizaj and Happiness in College Students During and After Complete Lockdown. *Psychosomatic Medicine Research journal*, 4(3).

Hashmi, I., Jamal, Y. (2022). To Compare the Pattern of Depression Symptomatology and Mizaj During the Lockdown and After Lockdown in Young College. *International journal of Indian psychology*, 2(10): 183-188.

Hashmi, I., Jamal, Y. (2022). 7. Evaluation of relationship of physical fitness index (PFI) with Mizaj in young individuals. *International Journal of Multidisciplinary Research and Growth Evaluation*, 3(3): 18-22.

Khan, F., Nayab, M., Ansari, A. N., Zubair, M. (2021). Medicinal Properties of Māsh (Vigna mungo (Linn.) Hepper): A Comprehensive Review. *Journal of Drug Delivery and Therapeutics*, 3(11): 121-124.

Rajan, S. (2022). The Surging Trend of Meditation in Mental health in Present Scenario: A Review. *International Journal of Ayurveda and Pharmaceutical Chemistry*.

Jindal, N., Rajput, S., Yadav, B., Mundada, P., Singhal, R., Varshney, S., Nimbalkar, K., Rana, R., Khanduri, S., Rao, B.C.S., Mata, S., Bharti, Srikanth, N., Manchanda, R. K., Dhiman, K. S. (2021). Chyawanprash as add on to the standard of care in preventing COVID-19 infection among

apparently healthy health care workers – A single arm, longitudinal study. *Annals of Ayurvedic Medicine*, 3(10): 204-219.

Panda, A.K., Kar, A., Gupta, N., Ramakanta Yadav, Gouri Shankar Prasad Mishra, Suwendu Rout. (2021). A Consensus driven statement for Ayurvedic Nomenclature of Various liver diseases (Yakrit Roga). *International Journal of Ayurveda and Traditional Medicine*, 5(3): 16-21.

Research Projects

A Clinical Study on the Comparative Assessment in the Treatment of Gouty Arthritis (Niqris) with Extract and Crude Form of the Unani Polyherbal Formulation, A Randomized Controlled Trial. Project undertaken during 2018-2021.

A Clinical Study On Oligozoospermia and Its Management with Single Unani Herb- A Randomized Controlled Trial. Project undertaken during 2018-2021.

A Randomized Standard Controlled Clinical Study on Overactive Bladder and Its Management with Majoon Qust. Project undertaken during 2018-2021.

Pharmaceutical Design and Development of Unani Nanogel for Topical Application in Skin Diseases. Project undertaken during 2018-2021.

Pharmaceutical Design and Development of a Unani Sunscreen Formulaion. Project undertaken during 2018-2021.

Conferences Organized

Conference organized on 'Unani System of Medicine for Public Health' on 2022, February 12.

Conference organized on 'Creating Awareness on Viral Hepatitis B & C', on 2022, February 02.

Extension and Outreach Activities

Several outreach health camps were organized by the college.

Library Development

New books and journals purchased.

Faculty Strength

50



Financial Allocation and Utilization

Fund allocated = Rs. 38,26,00,000/-

Fund utilized = Rs. 31,97,38,048/-



Faculty of Commerce and Business Studies

Department of Commerce

Brief History

The Department of Commerce, formally set up as a separate entity in 1967, has imbibed the DSE tradition of exploring new frontiers of knowledge and innovation in academics. The Department has the legitimate claim and pride of being the premier institution in India for course curriculum development, teaching and research in Commerce discipline. The rapid growth of the Department is reflected in its expansion as well as novelty in its academic programmes.

In addition to the traditional M.Phil., Ph.D., and flagship M.Com. programme, the Department of Commerce initiated two master degree level professional programmes, Master of International Business (MIB) and Master of Human Resource and Organizational Development (MHROD) as a response to market imperatives in 1995. Both the courses, viz. MIB & MHROD have been well received by the industry till date. The nomenclature of these two professional courses has been recently changed to MBA (IB) and MBA (HRD).

Major Activities and Achievements

The Department is best known for its research activities, faculty, and enthusiastic students. During year 2021-2022 department contributed towards academia and research through regular classroom teaching and publications in leading national and international journals by the faculty members.

The Department offers M.Com., MBA (IB), MBA (HRD) M.Phil. and Ph.D. programmes. In 2021-22, 451 students were admitted in M. Com including 13 foreign students, 66 in MBA (IB) and 79 in MBA (HRD) programme. A total of 31 and 21 students were enrolled in M.Phil. and Ph.D. programme respectively. The Department has successfully placed 91.55% of MBA(IB), and 95.52% of MBA (HRD) in reputed corporate jobs.

Honors/Distinctions

Dr. Ajay K. Singh was conferred the title of Honorary Prof. of John von Neumann University, Hungary in June 2021.

Prof. Ritu Sapra received the best paper award in International Conference conducted by Krupa Nidhi College, Bangalore on 2021, June 06. to 2021, June 06.

Prof. Ritu Sapra received the best paper award in International Conference organized by GD Goenka, Gurugram on 2021, June 20 to 2021, June 21.

Prof. Amit Kumar Singh was awarded as IIF Laureate 2021 with the IIF Research Prof. Award 2021 for his unparalleled contribution to the field of commerce at an International Research Conference hosted by Indian Institute of Finance (IIF) in Nov-Dec 2021.

Prof. Amit Kumar Singh received the best paper award in the National Conference on 'The Rising Era of Entrepreneurship: Discover an Entrepreneur and Skill Enhancement' organized by Department of Commerce and Entrepreneurship Cell, Ramanujan College, University of Delhi, India on 2022, March 24 to 2022, March 25.

Prof. Amit Kumar Singh received the best paper award in the International E-Conference on Advances in Business and Management organised by Department of Commerce, Shaheed Bhagat Singh College, Delhi University, India on 2022, January 20 to 2022, January 21.

Prof. Amit Kumar Singh received the best paper award in the International Conference on Emerging Issues in Business and Economic Research organized by Department of Commerce, Rajdhani College, University of Delhi on 2021, December 17 to 2021, December 18.



Prof. H.K Dangi (Coauthors- Kaur G, Deshwal) received the best paper award for paper titled "Customer Engagement in the Era of Covid-19: A Prisma-Compliant Systematic Literature Review and Bibliometric Analysis" presented in International Doctoral Research E-Conference organised by USMS, Guru Gobind Singh Indraprastha University, Delhi 2021 on 2021, July 30 to 2021, July 31.

Prof. Niti Bhasin (coauthors: Prof. Surender Munjal and Prof. Sumit Kundu), Paper titled "Innovation Capabilities of Emerging Market MNEs and Host Country Innovation Systems: A Comparative Institutionalism Perspective" officially nominated for the 2022 FIU/AIB Best Theory Paper Award at the AIB 2022 Miami Conference".

Publications

Research Articles

Kumar, V., Jain, S., & Singh, A.K. (2021). A nomological network study of employer branding with CSR, motivation and intention to stay. *Asia-Pacific Journal of Business Administration*, 13(4), 553-573. DOI: <https://doi.org/10.1108/APJBA-12-2020-0450>

Makkar, S., & Singh, A.K. (2021). Development of a spirituality measurement scale, *Current Psychology*, 40(3), 1490 -1497. <https://doi.org/10.1007/s12144-018-0081-7>

Singh, A.K., Kumar, M., & Meena. (2022). Challenges of virtual classroom during COVID-19 pandemic: An empirical analysis of Indian higher education, *International Journal of Evaluation and Research in Education (IJERE)*, 11(1) 207-212. DOI: <http://doi.org/10.11591/ijere.v11i1.21712>

Singh, A. K. & Sabharwal, S. (2021). Talent Management: An Empirical Analysis of Its Antecedents and Consequences Applying Structural Equation Modeling. *Purushartha*, 13(2) 1-16. <http://journals.smsvaranasi.com/index.php/purushartha/article/view/816/612>

Aggarwal, S., & Singh, A.K. (2022). Mediating Role of Psychological Capital between

Dimensions of Organisational Culture and Employees' Performance: A Study of Select Organisations. *Ramanujan International Journal of Business and Research*, 7(1), 82–92. doi:

<https://doi.org/10.51245/rijbr.v7i1.2022.589>

Meena, M. K., Shrotryia, V.K., & Singh, A.K. (2021). Do Human Resources have more Value than the Cost incurred on them by the Organisation? An Empirical Analysis of Infosys Ltd. using Contribution-Based Model. *Ramanujan International Journal of Business and Research*, 6, 73–86.

<https://doi.org/10.51245/rijbr.v6i1.2021.354>

Ramchandani, S., & Singh, A.K. (2022). Pathway to Corporate Sustainability: Drivers & Dimensions – A Review Study. *Delhi Business Review: An International Journal of SHTR*, v23, n1, 33-42. DOI: 10.51768/dbr.v23i1.231202204.

Kó1kai, E., Singh M. K., Zoltánc, W., Sárközyd, H., & Singh, A. K. (2021). Higher Level Dual Education at John von Neumann University: Model Studies for the Corporate Sector at Central Automotive Region of Hungary. *Delhi Business Review: An International Journal of SHTR*, v22, n2, 1-8.

Singh, A. K. & Mohanty, V.L. (2022). Engagement of Universities with Society to Realise SDGs. *University News*, 60(12), 46-57.

Singh, A. K. & Mohanty, V.L. (2021). Contribution of Higher Education Institutions towards Promoting Peace, Justice and strong Institutions. *University News*, 59(49). https://www.aiu.ac.in/documents/AIU_Publications/University_News/UNIVERSITY%20NEWS%20VOL-59,%20NO-49,%20DEC%2006-%20DEC%2012,%202021.pdf

Sapra, R., & Gupta, R. (2021). Testing of Five Factor Asset Pricing Model in India and Thailand Stock Market. *Review of Professional Management*, 19(2), 30-51.



- Tripathi, V., Sapra, R., & Gupta, R. (2021). Testing of Five Factor Asset Pricing Model in Indian and South Korean Stock Markets. *LBS Journal of Management & Research*, 19(1), 1-21.
- Sapra, R., Goel, R. & Gupta, R., (2021). A Bibliometric Analysis on Asset Pricing Models. *Empirical Economic Letters*, 20(2), 85-100.
- Tripathi, V., Sapra, R., & Gupta, R. (2022). Are Fama–French Factors Relevant? A Sub-Sectoral Analysis. *IIMS Journal of Management Science*.
- Sharma, K., & Lalandala, E. E. (2021). Facebook ad engagement: A cross-cultural analysis. *Global Business Review*.
- Sharma, K., & Lalandala, E. E. (2022). OTT platforms resilience to COVID-19—a study of business strategies and consumer media consumption in India. *International Journal of Organizational Analysis*.
- Singh, D. P., & Sharma, K. (2021). Motivations for youth's political participation on social media: implications for political marketers. *International Journal of Indian Culture and Business Management*, 22(1), 19-36.
- Kanojia, S., Gupta, S. (2022). Bankruptcy in Indian context: perspectives from corporate governance. *Journal of Management and Governance*. <https://doi.org/10.1007/s10997-022-09630-z>.
- Kanojia, S., Bhatia, B.S. (2021). Corporate governance and dividend policy of the US and Indian companies. *Journal of Management and Governance*. <https://doi.org/10.1007/s10997-021-09587-5>.
- Singh, A.K., and Goel, T. (2022). Does Regulation Impact the Initial Returns of Initial Public Offerings? – Evidence from Indian Capital Market. *The Indian Economic Journal*, 70(2), 313–330.
- Singh, A. K., Agarwal, R., & Shrivastav, R. K. (2022). Returns and Volatility Spillover Between BSE SENSEX and BSE SME Stock Exchange of India. *SEDME (Small Enterprises Development, Management & Extension Journal)*.
- Singh, A. K., Kota, H. B., Sardana, V., & Singhanian, S. (2021). Does Gender Diversity on Board Promote Corporate Social Responsibility? An Empirical Analysis of Sustainable Development Goals. *Australasian Accounting, Business and Finance Journal*, 15(5), 22-40.
- Rana, S., Singh, A. K., Singhanian, S., Verma, S., & Haque, M. M. (2021). Revisiting the Factors Influencing Teaching Choice Framework: Exploring What Fits with Virtual Teaching. *Global Business Review*.
- Singh, A.K., Mohapatra, A.K., Kumar M., & Saxena, A.(2021). Influence of the Selected Behavioural Biases on Intermediaries in Initial Public Offerings Market: A Survey. *Indian Journal of Economics and Business*.
- Singh A. K., Bansal, P., & Haque, M. M. (2021). Should Leverage Models Employ Time Varying or Time Invariant Firm Factors? An Empirical Analysis of Indian Listed Firms. *FIIB Business Review*.
- Singh, A. K. (2021). A New Modus Operandi for Determining Post - IPO Pricing: Analysis of Indian IPOs using Artificial Neural Networks. *Indian Journal of Finance*, 15 (1), 8-22.
- Singh, A. K. (2021). Moderating Impact of Foreign Financing Government Ownership, Firm-Liquidity and Size on Leverage. *Finance India*, 35 (2).
- Singh, A. K., & Maurya, S. (2021). Analysis of Historical Trend and Determinants of ESG Index Performance in India. *Corporate Governance Insight*.
- Jamaleh, M., & Shukla, A. (2021). Financial internationalization of emerging country multinationals: evidence from India. *Qualitative Research in Financial Markets*.



Garg, R. & Shukla, A. (2021). The impact and implications of SWFs: a systematic review of literature. *Qualitative Research in Financial Markets*, 13 (5), 580-607.

<https://doi.org/10.1108/QRFM-08-2020-0171>

Mittal, S. & Shukla, A., Covid 19: Implications for Indian Health insurance industry. *Journal of Health Management*.

Dhun, & Dangi, H. K. (2022). Influencer Marketing: Role of Influencer Credibility and Congruence on Brand Attitude and eWOM. *Journal of Internet Commerce*, 1-45.

Dhun, & Dangi, H. K. (2022). Sentiment Analysis - A Potent Tool for Evaluating Social Media Influencers. *Pacific Business Review International*. 13 (11), 43-56.

Shrotryia, V.K., Saroha, K. & Dhanda, U. (2022). Why employee engagement matters? Evidences from Delhi Metro Rail Corporation in India. *Personnel Review*. 51 (2), 501-527.

Shrotryia, VK. (2021). Prioritizing Human Well-Being over Growth-led Model: Politics and Possibilities. *Mizoram University Journal of Humanities and Social Sciences*. 7(2). 1-18.

Dhanda, U. & Shrotryia, VK. (2021). Corporate Sustainability: The new organizational reality. *Qualitative Research in Organizations and Management*. 16(3-4), 464-487.

Munjal, S., Bhasin, N., Nandrajog, D., & Kundu, S. (2022). Examining the evolution of emerging market multinational enterprises' competitive advantages: Evidence from India. *Journal of Business Research*, 145, 732-744.

Bhasin, N., & Kapoor, K. (2020). Impact of outward FDI on home country exports. *International Journal of Emerging Markets*. 16 (6), 1150-1175. DOI 10.1108/IJOEM-05-2017-0160.

Jhunjhunwala, S., Sharda, S., & Sharma, J. P. (2021). Translating Innovation into Performance: Understanding Role of the

Board. *Indian Journal of Corporate Governance*, 14(1), 9-26.

Lal, M. (2022). Growth and instability in foreign direct investment inflows to India since 1991. *Pragati: Journal of Indian Economy*, 9(1), 98-124. DOI 10.17492/jpi.pragati.v9i1.912206.

Books/Chapter in Books

Sharma K., & Aggarwal, S. (2021). *Principles of Marketing*, 2nd Ed., India: Taxmann Publishers.

Journal

Journal of Commerce and Business Studies

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

Prof. Ashish Chandra, Member of Editorial Board Trinity Journal of Management, IT & MEDIA (TJMITM) Publisher: Trinity Journal of Management, IT & Media (TJMITM) Print ISSN: 2320-6470.

Prof. Kavita Sharma Reviewer: *Journal of Business Research*, *Industrial Marketing Management*, *Qualitative Market Research-An International Journal*, Sage Publication, *Vision-Journal of Business Perspective*, *Global Business Review*.

Member of the Executive Board, International Conference of Marketing, Strategy & Policy organised by New Castle University.

Prof. Niti Bhasin, Editor- *FOCUS: Journal of International Business*.

Prof. Ritu Sapra, Member Editorial Board of 'Journal of Third Concept: International Journal of Ideas'.

Member Advisory Broad of 'Integral Review - A Journal of Management' (Integral University). Member Advisory Broad of 'Journal of Intellectual Resonance - DCAC'.

Prof. R. K Singh Member of the Editorial Board, *Delhi Business Review*. Member Editorial Board, *Journal of Management spirituality and religion*.

Reviewer, *Management Decision*, *Journal of Organizational Change Management*,



International Journal of Organizational Analysis, Quality Assurance in Education, Journal of Business Ethics.

Prof. Sunaina Kanojia, Member of the Editorial Review Board of Business Analyst, a Refereed Journal of Shri Ram College of Commerce. Editor, Corporate Governance Insight, International Journal published by Global Research Foundation for Corporate Governance, Dec 2019, Vol I, No II.

Research Projects

Prof. Kavita Sharma - Cognitive Dissonance of Mobile Application (App) Usage – A Study of Its Antecedents and Behavioural Outcomes. 2021 (Minor) funded by The Faculty Research Programme (FRP) grant by the Institute of Eminence, University of Delhi.

Prof. Hamendra Kumar Dangi is working on Institute of Eminence sponsored FRP on Healthpreneurship (on going).

Prof. Madan Lal is working on a minor project sponsored by Institute of Eminence, University of Delhi, under Faculty Research Program grant on the title 'Mediating Effect of Health Risk Perceptions on Air Pollution Control Intentions. (2022).

Prof. Madan Lal completed a minor project sponsored by Institute of Eminence, University of Delhi, under Faculty Research Program grant on the title "Thematic Analysis of Public Participation Behaviour (PPB) in Air Pollution Control (APC) in Delhi" (2021).

Seminars / Guest Lectures Organized

Prof. Amit Kumar Singh organized a two-day conference "International E-Conference on Advances in Business & Management" in collaboration with Department of Commerce, Delhi School of Economics and Shaheed Bhagat Singh College on 2022, January 20 to 2022, January 21.

Prof. Amit Kumar Singh organized a 6th Biennial International conference 2022 titled "The Financial Ecosystem: Disruptions and the Way Forward" in collaboration with

Department of Commerce, Delhi School of Economics and Sri Guru Gobind Singh College of Commerce on 2022, March 10 to 2022, March 11.

Seminar/Conference Presentations

Sapra, R. (2021, November 25-26.) The Cross-Section of Expected Stock Returns – A study on India and Thailand Stock Markets. *Virtual International Conference on Innovative Practices in Commerce & Management during Pandemic Era*. Department of Commerce, School of Commerce and Management, Central University of Rajasthan, Ajmer.

Sapra, R. (2022, February 10 – 2022, February 11). Pricing of Common Risk Factors in Stock Returns of Select Nations. *HSB 14th Annual National Conference on Business and Management*. Haryana School of Business, Guru Jambheshwar University of Science & Technology, Hisar.

Sapra, R. (2021, March 04 – 2021, March 06). Testing of Five-Factor Asset Pricing Model in India and Thailand Stock Market. *International E-Conference on Advances in Business and Management*. Shaheed Bhagat Singh College, Department of Commerce, University of Delhi.

Sapra, R. (2021, May 22). Testing of Five-Factor Asset Pricing Model in Indian and South Korean Stock Market. *4th Finance Seminar on Unlocking Financial Growth After Lockdown: Issues and Challenges Post Pandemic Covid-19*. Prestige Institute of Management, Gwalior.

Sapra, R. (2021, November 25 – 2021, November 26). Investigating Corporate Environmental Reporting in India. *Virtual International Conference on Innovative Practices in Commerce and Management during Pandemic Era*. Department of Commerce, School of Commerce and Management, Central University of Rajasthan.

Singh, A.K. (2022, January 20 – 2022, January 21). Understanding the Evolution of ESG Research: A Bibliometric and Network Analysis. *International E-Conference on Advances in*



Business and Management. Shaheed Bhagat Singh College, University of Delhi.

Singh, A.K (2021, November 27 – 2021, December 02). Do Indian IPO flippers possess Disposition Bias? *IIF-IRCAS November-December 2021 Conference*. India.

Singh, A.K (2021, November 27 – 2021, December 02). Are Institutional Investors the cause for Volatile Stock Markets? *IIF-IRCAS November-December 2021 Conference*. India.

Singh, K. (2022, March 24 – 2022, March 25). Industry Characteristics, Exchange Rate Exposure and Excess Returns: Indian Perspective. *International Conference on Emerging Management Trends: Financial Literacy, Financial Inclusion and FinTech [3Fs]*. Faculty of Management and Commerce, Manipal University Jaipur, Rajasthan, India.

Singh, A.K. (2021, December 17 – 2021, December 18). Performance of and Investor Behaviour towards biggest Indian Initial Public Offerings (IPOs) ever: A Literature Review. *1st International Conference on Emerging Issues in Business and Economic Research*. Department of Commerce, Rajdhani College, University of Delhi.

Singh, A.K. (2021, December 17 – 2021, December 18). Ushering into a New Age Banking: The Era of FINTECH. *1st International Conference on Emerging Issues in Business and Economic Research*. Department of Commerce, Rajdhani College, University of Delhi.

Singh, A.K. (2021, November 19 – 2021, November 20) Influence of Demographics and Investor Sophistication on Investment Behaviour in Initial Public Offerings Market (RCEF21040). *3rd Rajagiri Conference on Economics and Finance*. Rajagiri Business School and Rajagiri College of Social Sciences (Autonomous), Kochi.

Singh, A.K. (2021, November 19 – 2021, November 20). Changing Dynamics of Leverage Determinants: A Comprehensive Study of

Firms Listed in India (RCEF21051). *3rd Rajagiri Conference on Economics and Finance*. Rajagiri Business School and Rajagiri College of Social Sciences (Autonomous), Kochi.

Singh, A.K. (2021, November 19 – 2021, November 20). Foreign Exchange Risk and Stock Return: A Three-Layered Approach to Abnormal Gain (RCEF210). *3rd Rajagiri Conference on Economics and Finance*. Rajagiri Business School and Rajagiri College of Social Sciences (Autonomous), Kochi.

Singh, A.K. (2021, February 17 – 2021, February 19). Do BRICS Stock Markets Follow Random Walk Movement? *21st International Business Horizon (INBUSH) 2021 Conference*. Amity University, Noida.

Singh, A.K. (2021, February 17 – 2021, February 19). Does Regulation Impact the Short-Term Returns of Initial Public Offerings? Empirical Evidence from Indian Primary Markets. *21st International Business Horizon (INBUSH) 2021 Conference*. Amity University, Noida.

Dangi, H.K. (2021, January 22 – 2021, January 23). Social Networking sites and civic participation: analyzing the mediating role of online bridging social capital. *Strategizing for Future: The Post COVID Economic Order organized by Vivekananda Institute of Professional studies and CoB*. University of Buraimi, Oman.

Dangi, H.K. (2021, January 22 – 2021, January 23). Information search behaviour for healthcare service: An empirical enquiry. *Strategizing for Future: The Post COVID Economic Order organized by Vivekananda Institute of Professional studies and CoB*. University of Buraimi, Oman.

Bhasin, N., Munjal, S., Kundu, S., and Divya. (2021, June 28 – 2021, July 02). Examining the Evolution of Emerging Market MNEs through Ownership Advantages: Evidence from Firms in India. *Academy of International Business*.

Placement Details

MBA(IB): 65 and 91.55%



Number of Companies visited for campus recruitment: 95

MBA(HRD): 64 and 95.52%

Number of Companies visited for campus recruitment: 65

M.Com: 87 and 17.68%

Number of Companies visited for campus recruitment: 09

Extension and Outreach Activities

Prof. Niti Bhasin

Invited as a resource person to speak on 'Economic Policy of India: Evolving Dimensions' by University of Delhi for the Four Week Training Programme for Assistant Registrar/Administrative Officer, on 2022, March 04.

Invited as a Speaker by the Ph.D. Chamber of Commerce and Industry, New Delhi, for a Webinar on 'Industry Expectations from New Foreign Trade Policy, 2021-26', held on 2022, January 25.

Invited as a speaker by IP College for Women, University of Delhi for an interactive Webinar on 'Changing dynamics of global trade and investment during Covid-19', on 2022, January 22

Invited as a speaker by Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi for Refresher Course in Economics, Commerce and Business Management to speak on 'Global trade and Investment, on 2022, January 08.

Invited as a speaker by National Institute of Communication Finance (NICF), Department of Telecommunications, Ministry of Communications, for the National seminar on 'Telecom Ecosystem: Challenges and Opportunities', on 2021, November 28.

Invited as a speaker by SDAM College, Punjab for National Webinar on 'Intellectual Property Rights' held on 2021, May 14.

Prof. H.K. Dangi

Delivered a talk on 'Basics of Research Methodology and Issues in plagiarism (An Interdisciplinary Approach)' in association with Guru Angad Dev Teaching Learning Centre under the Ministry of Education, Government of India (Pandit Madan Mohan Malaviya

National Mission on Teachers and Teaching) from 2022, May 31 to 2022, June 06.

Delivered a talk on "Careers prospectus in Analytics" in National Webinar on New Paradigms in Business and Technology: A Careers Perspective organised by Sri Venkateswara College, Delhi on 2021, September 23.

Delivered a talk on "Bibliometric Analysis & Sentimental Analysis" in an online FDP "MOOCs, E-Content Development, Research Methodology and Statistical Tools in Open Education World" organised by Kalindi College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College on 2021, August 05.

Delivered an invited talk on "Exploratory Factor Analysis", "Multiple Regression", "SEM-Measurement & Structural Model" and "Moderation & Mediation" at the International Faculty Development Programme, organised by MERI College, New Delhi during 2021, August 03 - 2021, August 09.

Delivered a talk on "Motivation and Methods for Research" in a webinar organised by Mata Sundri College for Women on 2021, April 03.

Delivered two lectures on "Introduction to research with focus on qualitative research (Sentiment Analysis through NVivo) and Literature Review; Research paper writing based on Systematic Literature Review" in One Week Short Term Training Program on 'Decision Making using Data Analysis' organised by Jagan Institute of Management Studies on 2021, June 25 – 2021, June 26.

Delivered two lectures on "Sentiment Analysis" and "Bibliometric Analysis" in the 2-week Online Refresher Course in Business Studies(Commerce/Management/Tourism/Economics) on the theme "Redesigning Business and Education in Post Pandemic Era" organized by UGC-Human Resource Development Centre in collaboration with Department of Commerce, Kurukshetra University, Kurukshetra on 2021, September 04.

Delivered a talk on "Hypothesis testing (hands on session)" in AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "AICTE Sponsored FDP on Research Methodology- Techniques & Software for Social Sciences" organised by Department of



Business Administration, Assam University on 2021, August 27.

Delivered a talk on “Sentiment Analysis and Designing the Questionnaire” in the one-week Interdisciplinary Faculty Development Program on "Basics of Research" organized by Mahatma Hansraj Faculty Development Center under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) on 2021, June 19.

Delivered a talk on “Basics of research” in the one-week Interdisciplinary Faculty Development Program on "Hypothesis testing and data analysis" organized by Acharya Narendra Dev College and Mahatma Hansraj Faculty Development Center under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) on 2021, April 06.

Prof. Amit Kumar Singh Delivered a Lecture as a Resource Person on the topic “How to get into the Corporate World” organised by Internship Cell and IQAC of Swami Shradhanand College, University of Delhi on 18.06.2022. Delivered a session on One Week (Online) Interdisciplinary Faculty Development Programme on “Research Methodology” organised by the Mahatma Hansraj Faculty Development Centre, Hansraj College from 2022, April 18 to 2022, April 24. Delivered a lecture as a Resource Person in Online National Webinar on “New Paradigms in Business and Technology: A Careers Perspective” organized by Department of Commerce, Sri Venkateswara College, University of Delhi under the aegis of Department-College Interface on 2021, September 23.

Delivered a lecture as a Resource Person on the Topic “New Education Policy 2020 and Commerce” in the Online National Webinar organized by Department of commerce, Rajdhani College on 2021, September 02.

Prof. Ashish Chandra

Resource Person in one week FDP on "Implementation of National Education Policy 2020 using Innovative Teaching Methods", organised by Department of Commerce, Sri Venkateshwara College and Hansraj College under MHRFDC, Hansraj College, University of Delhi.

Member of Selection Committee of various colleges for the Promotions from the post of Assistant Prof. to Associate Prof. and Associate Prof. to Prof.

Prof. Madan Lal

Delivered a lecture on “Measurement and Scaling” in the 2-week (2021, August 31 to 2021, September 13) Online Refresher Course in Business Studies on 2021, September 07 at UGC-Human Resource Development Centre in collaboration with Department of Commerce, Kurukshetra University, Kurukshetra.

Delivered a lecture on “Measurement and Scaling” in the 2-week (2021, August 09 to 2021, August 21) Online Refresher Course in commerce and management on 2021, August 13 at UGC-Human Resource Development Centre H.P University, Shimla.

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

Ph.D.: 26

M.Phil.: 19

Faculty Strength

Permanent: 15

Adhoc: 10

Other Significant Information

Media Cell, a student-led editorial society of M.Com., with its flagship work 'Drishti', the official magazine of Department of Commerce, has also launched 'Beyond the Classroom' - a series of sessions for the students that aims at bringing the experiences of experts in various fields.



Blooming Insights, the official Blog of Media Cell, was launched in February 2021. Since then, it has been providing its readers with quality and well-researched content, interesting and engrossing topics, and up-to-date news. Every week we post new articles to keep our readers entertained and updated with what's going on in the world.

THE CORPORATE ECCLESIA 2021: The Delhi School of Economics, Department of Commerce, successfully hosted the second season of its prestigious Corporate Panel Discussion event "The Corporate Ecclesia '21" on 2021, September 25. The theme for this year's event was "Startup: From Ideation to reality".

HORIZON 2021: A platform with esteemed HR aficionados to unleash the unexplored avenues of the HR domain and ignite the series with brainstorming discussions held on "The future workplace: HR's Role".

Inquizzitive is the weekly quiz series conducted by HighQ, a committee of MBA- HRD. This contains various questionnaire rounds where students cross question each other in respective groups and actively participate in discussions on topics related to HR and management.

GEMS OF UNIVERSITY LECTURE SERIES (GULS): Prof. Ujjawal Kumar Singh Department of Political Science, delivered an informative, insightful and interesting talk to scholars of Commerce Department on 2020, November 05 on virtual platform.

Power BI Workshop: HighQ team of MBA(HRD) got a deal with Excel Prodigy where DSE MBA HRD students had the exclusive chance to get free courses and certificates to gain some skills which are deemed mandatory in current corporate world (August 2021).

Annual Management Fest, SYNERGY (April 2022): The flagship fest was organized by Student Development Cell via Online mode. The fest saw participation from students of elite institutions like FMS, MICA, IIT Delhi, ISB,

IIMs and many more. The fest has offered a weeklong of enriching experience with a host of interesting events.

Team Sankalp took following initiatives that culminate in social development:

Project SAHYOG: Fundraiser for JP Tea Stall
A campaign is initiated through a third party i.e. Milap foundation which helped the owner of JP Tea Stall to tide over the hardship of pandemic. (2021, September 08).

Plant a Plant: initiated a "Plant a Plant" activity wherein all had to plant a sapling. (2021, October 18).

Mind Over Matter: A Gender Equality workshop held in collaboration with Center for Social Research (2021, October 29).

Sharebox-A Winter Clothes Donation Drive: an initiative to donate winter clothes for the needy families around nearby localities (January, 2021).

Horizon: Annual alumni conference, in which panels of our alumni discussed the prevailing impediments, and recommend new solutions to overcome them, as well as potential avenues in the HR sphere that may arise in future (2021, September 17 – 2021, September 18).

Bandhan: This programme attempts to leverage the experience and expertise of the alumni to address the mentoring needs of the students seeking professional and personal development (2021, November 20).

Edify'20: This series aims to further familiarize the students with the field of HR and the recent trends & developments and assist them in expanding their HR dimension and reach (September – April).

Rewind: The annual newsletter of MHROD provides information about the college's current batches' accomplishments, alumni achievements, and anecdotes by alumni (2022, January 22).



Guest Lectures were conducted throughout the session i.e., April 2021 - March 2022 by various Committees to make students industry ready and enhance their knowledge base.

The resource persons for these guest lectures include Mr. Danish Shaikh (Travel Food Services, Head L&D), Mr. Shiv Rawat (DTDC Express Ltd, VP and Head HR), Mr. Sanjeeb Lahiri (GRP Ltd, CHRO), Mr. Hitesh Khurana (Amazon, WFS Lead), Ms. Shivani Malhotra (Positive Vibes Consulting, Partner & MD), Mr. Ravi Teja (India Health Action Trust, Senior Team Member).

HighQ- The HR Club, Shastrartha Series

The speakers for this series were: Ms. Megha Thapar (Moody's corporation, AVP Lead D&I), Mr. Mohit Kumar (Hindalco, President HR & Head L&D), Mr. Siddharth Mavinkurve (NXP Semiconductors, Head HR & Operations), Mrs Annie Acharya (NXP Semiconductors, Associate Director- HR), Mr. Sidharth Tuli

(People Sculptors, Founder and CEO), and Mr. Atulya Goswami (General Mills, HR Director).

Alumni Committee, Edify Series

The speakers for this series were: Mr. Rohit Mani Tiwari (Ministry of Labour, Deputy Director), Ms. Neetu Sonthalia (hapag-Lloyd AG, Senior Manager), Ms. Vijayanti Margassery (OLA, HR Director), Mr. Suhrid Chaudhuri (Al Ghurair, Group Head OD and Culture), and Ms. Ishita Gupta, (Deloitte UK, Manager).

Corporate Relations Team, Pragyata Series

The speakers for this series were: Mr. Kushal Dubey (Dehaat, Sr HR Manager), Mr. Srikanth Kalayansundarm (John Cockerill, Deputy GM HR OD), Mr. Katyayani Krishna (Maersk, Regional people partner Head), Ms. Charu Sharma (Infogain, HR Manager & OD Professional), Mr. Kumar Prashant (Accenture, AVP Talent Fulfillment), and Ms. Manvi Sushil (Avery Dennison, Lead HRBP).



Faculty of Education

Brief History

The Department of Education, University of Delhi, earlier known as CIE, is perhaps the first major institution of professional learning and research in Education that was established since independence. The first Prime Minister of India, Pandit Jawaharlal Nehru, and his first Education Minister, Maulana Abul Kalam Azad took considerable interest in its establishment in 1947 and activities and progress in those early years. Over these past decades, the Department has grown into a pace-setting institution in Teacher Education and Educational Research. Recognized as the Institute of Advanced Studies in Education (IASE) and having launched the Maulana Azad Centre for Elementary and Social Education (MACESE), the Department has shaped its unique philosophy, which finds reflection in its all the programs through inculcating core values of democracy, freedom, dedication, creativity, social responsibility, diversity, inclusion, collaborative and experiential learning, innovation, sincerity, and excellence.

Major Activities and Achievements

Around 122 students got their B.Ed. degree, 64 students got their M.Ed. degree. 11 Scholars were awarded M.Phil. degree in the course of the year, and 26 scholars received their Ph.D. degrees in the University Convocation.

The Department celebrated International Yoga Day on 21st June 2020. There was a yoga expert who demonstrated different Asanas and Pranayam. He also gave tips on diet, lifestyle and how to be happy.

In Field Observation, B.Ed. 1-year students visited National Handicrafts Museum, Gandhi Smriti, and National Science Center. A Heritage Walk was organised to Lodhi Garden with geographer-historian Sohail Hashmi.

Honors/Distinctions

Arora, P. Member of the Departmental Advisory Board (DAB), Planning and Monitoring Division, NCERT, 2020-2023.

Publications

Research Articles

Arora, P., (अगस्त, 2021), बिना गुण के मात्रात्मक प्रसार, न्यूज़ टाइम्स पोस्ट, हिंदी पाक्षिक, वर्ष 6, अंक 01, 01-15, www.newstimespost.com.

बैनीवाल, वि., (2021), शिक्षा में शैक्षिक प्रौद्योगिकी, न्यूज़ टाइम्स पोस्ट, 6(7), 32-33.

Varma, S., (2022), Women empowerment in changing India, Scholarly Research Journal for Humanity Science & English Language, *International Peer Reviewed*, E-ISSN-2348-3083, P-ISSN-2349-9664, Vol.9/31, SJIF-(2021)7.278.

Kumar S., (2022), Cognition as Coming into Being: A Contextual Perspective, *National Journal of Education*, 17(1&2), 11-30.

Kumar S., (2021), A Critical Historiography of History of Psychology, *Sambodhi*, January-March, Vol 44(1), 80-88, ISSN: 2249-6661.

Kumar S, (2021), Critical Pedagogy: Perspective and Classroom Implications, *Pedagogy in School. Atlantic Publication*, In Basantia, T. (Eds), India: ISBN:978-81-269-3234-4 (41-64).

Kumar S., (2021), Becoming Psychological Well-being: Do's and Don'ts., *International Journal of Education and Psychological Research*, Vol 10 (1), 111-117, ISSN: Print-ISSN: 2349-0683, e-ISSN: 2279-0179.

Books/Chapter in Books

Arora, P. (Ed), (2020), National Education Policy-2020: Paving ways for Transformational Reforms, *New Delhi*, Shipra Publications.

Arora, P. (Ed), (2020), 'राष्ट्रीय शिक्षा नीति 2020: रचनात्मक सुधारों की ओर', *New Delhi*, Shipra Publications.

Chaudhari, P., (2022), Teaching-Learning Resources for Science Teachers, *New Delhi*, Ansh Book International, 978-81-956930-1-6.



Ingole, M., (2021), "Meta-cognitive Strategies and Learning Approaches: Usability in the Educational Context", *Hillsborough St, Raleigh, NC 27607, United States*, Lulu Publication.

Kumar S., (2021), Reflective Practices and Professional Development in Teaching, *New Delhi*, Shipra Publication, 978-93-88691-73-4.

Research Projects

GATI, 2021-2024, Major Research Project on Gender Advancement for Transforming Institutions.

Seminars/Conferences

International Conference on Philosophical Counselling', 2022, January 16.

Virtual seminar on Human Rights perspective and Medical Perspective of disabilities, 2021, December 10.

Seminar/Conference Presentations

Arora, P. Resource person for National webinar on Curriculum for Preparing School Teachers and Decoding Vision of NEP-2020, organized by Jamia Millia Islamia, Delhi, 2021, June 5.

Arora, P. resource person for various Webinars/ workshops/ FDPs on National Policy of Education-2020, Organised by Central University of Gujrat, Mizoram University, Panjab University, JMI, RIE-Ajmer, CIC, SPM College, MGHV Wardha, HNBCU, FITE, CUHP, AKU, AMU, Allahabad University, BHU, etc. July 2020- July 2021.

Chaudhari, P. (2022) Some Thoughts On National Education Policy-2020 And Implementation of Integrated Teacher Education Programme (ITEP). National Seminar On National Education Policy-2020: Strategies for Implementation 2022, March 14-15. Msu, Vadodara.

Niwas, R. (2021). आनंदमयी शिक्षा की चुनौतियाँ: नई शिक्षा नीति 2020 के संदर्भ में presented a paper as resource person/invited speaker in 'Three Days Multidisciplinary International Conference (Sponsorship by DGHE, Haryana) organized on New Policy Imperatives - NEP 2020 of India Role

of Education, Teachers and Academic Administrators: w.e.f. 2021, November 11 to 2021, November 14 organized by RKSD College Kaithal.

Kumar S. (2021). Invited lecture on 'National Education Policy: A Critical Perspective' at International Multi-Disciplinary Seminar on Emerging Challenges and Concerns in Education. Mahilpur, Punjab. 2021, October 31.

Kumar S. (2021). Invited Lecture on 'NEP 2020: Future Possibilities' at National Seminar on National Education Policy-2020: Vision to Action at PMC college of Education, IP university. 2021, November 9.

Extension and Outreach Activities

Yoga, Heritage Walks and Music for B.Ed. and M.Ed. students

Faculty Strength

37

Number of Ph.D. Degrees Awarded

26

Number of M.Phil. Degrees Awarded

11

Other Significant Information

Arora, P.
Dean Students' Welfare and Director, Institute of Life Long Learning, University of Delhi.
Member, Committee for selection of Post Doctoral Fellow and Doctoral Fellow- Dr. Ambedkar International Centre (DAIC), Ministry of Social Justice & Empowerment, Dept. of Social Justice & Empowerment Government of India.
Member, Expert Panel for the evaluation of research project/Post-Doc Fellowship reports, ICSSR, Delhi.
Valedictory address at two-day National e-Conference, Actualizing NEP 2020 for Resurgence of Bharat as 'Viswa Guru' organized by Amity University, 2021, November 18.
Keynote speaker, Indian Education: Tradition and Transformation in the context of NEP-2020 on the occasion of National Education Day Celebration at Central University of Kerala, 2021, November 11.



Resource Person for Online Faculty development Programme on MOOCs and e-learning in the context of National Education Policy organized by Institute of Eminence, University of Delhi 2021, 22 October.

Resource person for Developing Administrative Skills and Leadership in One Week Online Training Workshop organized by Shyam Lal College, University of Delhi. 25th September – 2021, October 01.

Expert Consultation Talk for Implementation of NEP at Shivaji College with NEP Implementation Committee, Shivaji College, University of Delhi. 2021, October 22.

Resource Person in the Faculty Induction Programme - V: Understanding the Concept of Pedagogy in the New Education Policy organized by HRDC-JNU. 2021, September 27.

Resource Person for lecture on Integrated Teacher Education Program: possibilities and Challenges One Week Interdisciplinary (Online) Faculty Development Programme National Education Policy 2020: Implementation and Challenges organized by Aditi Mahavidyalaya, University of Delhi, 2021 September 10.

Resource Person for expert talk on the theme DIGITAL LITERACY FOR YOUTHS AND ADULTS organized by the Department of School Education and Literacy, Ministry of Education, Government of India, 2021, September 8.

Guest Speaker for a talk on New Challenges and the Needs of Young People to celebrate International Youth Day, organized by Faculty of Education, The Women University Multan, Pakistan. 2021, August 12.

Eminent Speaker for a lecture on Multiple Entry Multiple Exit on the occasion of first anniversary of National Education Policy, organized by the Department of Teacher Education, School of Education, Central University of South Bihar, 2021, August 06.

Resource Person for External Review Workshop for research project Construction and Standardisation of Workplace Happiness Scale for Teachers' under the aegis of the Indian Council of Social Science Research (ICSSR), organised by CASE, Baroda, 2021, June 30.

Resource Person for FDP Teacher Education: Future Road map in the context of NEP 2020, organized by Department of Education, Sri Guru

Granth Sahib World University, Punjab, 2021, June 24.

Convener, National Consultation Meeting on Higher Education Commission of India as proposed in NEP 2020, Jointly organised by University of Delhi, Jindal Global University, Centre for Education and Social Studies, under the aegis of Vidhya Bharti Uccha Shiksha Sansthan, New Delhi, May 2021.

Member, National Focus Group on Gender Education, NCERT, New Delhi.

Visitor Nominee, Central University of Punjab, Bhatinda

Member, NEP Cell, University of Delhi.

Ingole, M.

"Disability and Women in the Realm of Supreme Science". Research work presented with Co-author at Homi Bhabha Centre for Science Education 11th Annual Research Meet 2021. Held on 2021, September 23 to 2021, September 25.

Resource person in AICTE Training Learning (ATAL) Academy Online Elementary FDP on "Educational Technology- Integration and Interaction from 6th June 2021 to 10th June 2021 at Aligarh Muslim University Centre, Malappuram, Kerala.

Keynote Speaker during Online Faculty Development Program on "Enhancing Qualitative Approach in Education" Organized during 7th June -13th June 2021. session on "Qualitative Methods in Teaching and Training".

Kumar S.

Member, Drafting National Inclusive Education Policy for Open Schooling' under the aegis of NIOS and UN Woman.

Curriculum Designed on 'International Education' for Ph.D. Programme, Texila American University.

Curriculum Designed on 'Adult and Childhood Learning Theories' for Ph.D. Programme, Texila American University.

Curriculum for FDP designed on 'Pedagogical Imperatives for Capacity Building in Higher Education' for Institute of Life Long Learning, University of Delhi.



Faculty Strength

Prof.: 11

Assistant Prof.: 04

Asst. Prof. (ad-hoc): 06

Number of Ph.D. Degrees Awarded

10

Number of M.Phil. Degrees Awarded

14



Faculty of Homoeopathic Medicine

Nehru Homoeopathic Medical College & Hospital

Brief History

Nehru Homoeopathic Medical College & Hospital under Government of NCT of Delhi, is affiliated to University of Delhi since 1992 and offers 5.5 year-long Bachelor of Homoeopathic Medicine and Surgery (B.H.M.S.), 3-year Post Graduate course since 2009, viz. M.D. (Homoeopathy) in subjects of Practice of Medicine and Organon of Medicine and Materia Medica from 2018-19 session. The College is recognized by Central Council of Homoeopathy (CCH) and is regulated by its Guidelines.

This Institution has a 100 bedded attached hospital that provides medical care facilities with fully functional OPD and IPD.

Major Activities And Achievements

COVID Testing Centre started functioning in the same premises since 2020, July 01 in which RAT and RT-PCR tests are being conducted as per extant guidelines of Govt. of NCT of Delhi.

Hospital runs IPD services in which patients are provided Homoeopathic treatment with standardized case records and diagnostic facilities.

The Hospital has been pro-actively involved in immune booster homoeopathic medicine distribution as part of Immunity Campaign. The institute is also ensuring IEC display and staff sensitization for COVID-19 appropriate behavior as part of Public Health response.

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.

The institute actively participated 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.

Honors/Distinctions

Hospital received Kayakalp Commendation Award in year 2021.

Letter of appreciation received from Secretary, Ministry of Health for serving the general public during COVID-19 pandemic.

Research Projects

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.

Conferences Organized

Conferences were organized on Clinical Management Guideline for COVID-19, Standard Operating Procedures for Nursing officers and support staff, BMW Management and IPC Protocol.

Seminar/Conferences Presentation

Dr. Thankaraj, B.

LMHI Global Colloquium 2021 held on 10th – 12th December.

Individualized Homoeopathic treatment on Mild cases of Covid 19 on Home Isolation, an observational study- Primary author and presenter of paper.

Usage of Arsenicum album 30 in Covid 19 frontline Healthcare worker in Government Hospital Delhi, India-Co-author.

Assessment of Homoeopathic Competence in Benign Prostatic Hypertrophy-A retrospective observational study –Co-author.



Homoeopathic Therapeutics of Omicron/ Covid 19 presented a KGMOA seminar on February 2022 Primary author of “Guideline for setting up of Post-Covid clinic at NHMC&H” Published on September 2021.

Dr. Rekha

Usage of Arsenicum album 30 in Covid 19 frontline Healthcare worker in Government Hospita Delhi, India-LMHI Global Colloquium 2021 held on 10th – 12th December 2021.

Individualized Homoeopathic treatment on Mild cases of Covid 19 on Home Isolation, an observational Study-Co-author. LMHI Global Colloquium 2021 held on 10th – 12th December. Received Outstanding Poster Award in LHMI Global Colloquium 2021.

Co-author of “Guideline for setting up of Post-Covid clinic at NHMC&H” Published on September 2021.

Dr. George Mathew

Panelist from India for IFPH (International Forum for Promoting homoeopathy) Discussion- Zoom session on 2021, June 07. “Topic what needs to be done to make Homoeopathy the no. 1 Medicine in the world?”

As part of Azaadi ki Amritmahotsav”- given presentation of “Scope of Homoeopathy in Cancer” for UG & PG students & teaching faculty at NHMC & H, on 2021, October 26.

Delivered an Oral Presentation on “Neuroblastoma stage IV with multiple hepatic metastases in a 5 month old and its complete remission through Homoeopathic treatment: A case report” in the LHMI Global Colloquium

2021 held virtually from December 9th to 11th, 2021.

Dr. Sapna Gupta,

Presented Poster Titled “Treatment of Severe Psoriasis by Individualized Homoeopathic approach” Evidence based case reports” in LMHI Global.

Received outstanding Poster Award in LMHI Global Colloquium 2021.

Dr. Abdul Motin Molla

Review of the Protocol of “Comparative Study of Homoeopathic Medicine & Antehelmenthics in cases of Soil-Transmitted Helminthes in children: and an open level Randomizes Pragmatic Trial” – A study Protocol of CCRH.

Working as Assistant Project Incharge of “Efficacy of Homoeopathic Treatment in Pediatric Diseases” at NHMC&H.

Dr. S.K. Mishra,

Effectiveness Dactylography DHA fingerprinting in the Field of Forensic Medicine. Journal of Forensic Chemistry & Toxicology by AIIMS Vol.-7, Number-2, July-Dec., 2021 Pear Review, Journal in AIIMS, FMT.

Dr. Dhananjay Shukla

Clinical Characteristics and Remedy Profiles of patients with COVID 19: A Retrospective Cohort study. Homoeopathy 2021, 110:86-93. Post COVID-19 complications and their Homoeopathic Management. The homoeopathic Heritage, Vol. 47. No. 10.

Faculty Strength

22



Faculty of Interdisciplinary and Applied Sciences

Department of Biochemistry

Brief History

The Department of Biochemistry was established in 1983. One of the commendable contributions of the department has been the creation and sustenance of a rigorous, dynamic and vibrant Master's program in biochemistry that imparts conventional and new knowledge to young students in an innovative manner with utmost emphasis on hands-on training. The Department is well equipped with modern and sophisticated scientific equipment and also offers Ph.D. research opportunities in different areas of life sciences. The laboratories are well recognized nationally and internationally. Many faculty members are working in close collaboration with industry or institutions, which are responsible for taking leads to the next level in the process of product development. Several research initiatives in the area of host-virus interaction, drug discovery, and mechanistic insight to combat Cardiovascular diseases, Cancer, Malaria, Tuberculosis, Obesity, and others are ongoing.

Major Activities and Achievements

The Department continued to improve its teaching-learning activities through hybrid modes during the trying times of Corona pandemic. Dissertations and practicals were held physically, along with online classes with the new batch followed by OBE-based exams. Slowly the department resumed in the physical mode with academic as well as other activities such as holding physical seminars, online workshops/ training and sports day and farewell. The faculties continued with their cutting-edge research endeavours leading to the signing of MoUs, filing of patents and several high-end research publications. They were also invited to deliver lectures, serve as Chairs at conferences, and serves as experts in various national scientific committees as well as selection committees.

Honours/Distinctions

Prof. Debi P. Sarkar
Conferred Excellence Awards for Teachers in Service by the University of Delhi, 99th Foundation Day, 28th June 2021.

Mr. Subrata Ghosh
Conferred Distinguished Service Award for Retired Non-Teaching Staff, 99th Foundation Day, 28th June 2021.

Publications

Research Articles

Cheema, P.S., Nandi, D. and Nag, A. (2021). Exploring the therapeutic potential of Forkhead box O for outfoxing COVID-19, *Open Biology*, 11(6). 210069.

Sharma N.R., Gadhave, K., Kumar P., Khan, M.S.M., Sarkar, D.P., Uversky, V.N. and Giri, R. (2021). Analysis of the Dark Proteome of Chandipura Virus Reveals Maximum Propensity for Intrinsic Disorder in Phosphoprotein, *Scientific Reports (npg)*. Online 24th June 2021, 11, 13253.

Aggarwal, D.D., Rybnikov, S., Sapielkin, S., Rashkovetsky, E., Frenkel Z., Singh M., Michalak, P., Korol, A.B. (2021). Seasonal changes in recombination characteristics in a natural population of *Drosophila melanogaster*, *Heredity*, 127, 278-287.

Dasauni, P., Chhabra, V., Kumar G. and Kundu, S. (2021). Advances in mass spectrometric methods for detection of hemoglobin disorders, *Analytical Biochemistry*, Available online 23 July 2021, 629, 114314.

Singh P.P., Tamang, R., Shukla, M.K., Aggarwal, D.D., Chaubey, G. (2021). The association of ABO blood group with the asymptomatic COVID-19 cases in India. *Transfusion and Apheresis Science, Transfusion and Apheresis Science*, 60, 103224.



Kumar G., Dey, S.K. and Kundu, S. (2021). Herbs and their bioactive ingredients in cardio-protection: underlying molecular mechanisms and evidences from clinical studies, *Phytomedicine*, DOI: <https://doi.org/10.1016/j.phymed.2021.153753>, 92, 153753.

Dey, S.K., Saini M., Dhembala, C., Bhatt, S., Rajesh, A. S., Anand, V., Das H.K., Kundu. S. (2021). Suramin, Penciclovir and Anidulafungin exhibit potential in the treatment of COVID-19 via binding to nsp12 of SARS-CoV-2, *Journal of Biomolecular Structure and Dynamics*, DOI: <https://doi.org/10.1080/07391102.2021.2000498>, 1, 17.

Chand, V.*, Kapoor, A.*, Kundu, S.# A.# (*Equal Contribution; #Joint Corresponding Authors).(2022). Identification of a peptide that disrupts hADA3-E6 interaction with implications in HPV induced cancer therapy, *Life Sciences*, DOI: <https://doi.org/10.1016/j.lfs.2021.120157>, 288, 120157.

Nandi, D., Cheema, P.S., Singal, A., Bharti, H. and Nag, A. (2021). Artemisinin mediates its tumor-suppressive activity in hepatocellular carcinoma through targeted inhibition of FoxM1, *Frontiers in Oncology, section Cancer Molecular Targets and Therapeutics*, 11, 751271.

Repurposing the Pathogen Box compounds for identification of potent anti-malarials against blood stages of Plasmodium falciparum with PfUCL3 inhibitory activity. (2022), Hina Bharti, Singal, A., Saini M., Cheema, P.S., Raza, M., Kundu, S. and Nag, A., *Scientific Reports*, doi: 10.1038/s41598-021-04619-4, 12(1), 918.

Books/Chapter in Books

Khan, M. A., Uppal, S., & Kundu, S. (2021), Novel Hemoglobin from *Synechocystis* sp. PCC 6803: Shedding Light on the Structure-Function Relationship and Its Biotechnological Applications. In *Cyanobacteria-Recent Advances in Taxonomy and Applications*. IntechOpen. (London, England), ISBN 978-953-

51-0841-2, DOI: <https://doi.org/10.5772/intechopen.97699>.

Patents Filed/Granted

4 and Quinolone-Based Anti-Hypertensive Cardio-Protective Composition, Suman Kundu, Sanjay Kumar Dey, BK Thelma, Pankaj Prabhakar, Subir Kumar Maulik, Provisional Indian Patent applied (ID 20211102677), June 16, 2021.

Novel Anti-Hypertensive Cardioprotective Composition Comprising of Dispiro [1H-Perimidine-2(3H),2''(3''H)-[1H] Perimidine, Suman Kundu, Sanjay Kumar Dey, Gaurav Kumar Vikash Kumar Surya Ramachandran, Chandrasekharan Cheranellore Kartha, Provisional Indian Patent applied (ID 202111026998), June 16, 2021.

A Furan-Based Anti-Rheumatoid Arthritis Composition, Suman Kundu, Manisha Saini BK Thelma, Sanjay Kumar Dey, Richa Arya, Provisional Indian Patent applied (202121026835), June 17, 2021.

Prof. Alo Nag - "Novel anti-malarial liposomal formulation", Prahlad Chandra Ghosh, Alo Nag, Mohsin Raza, Aakriti Singal and Hina Bharti, Final Indian patent submitted (ID 201711016131), February 15, 2018; Published in November 2018; Hearing defense for the patent on 9th June 2021, final draft filed on 22nd June 2021.

Seminars/Conferences

Prof. Baron Chanda, Washington University School of Medicine, St. Louis, USA, Energetics of ligand and temperature activation in voltage-gated ion channel superfamily, 10-03-2022.

Prof. Dulal Panda, Director, NIPER, Mohali, Challenges and Opportunities of Microtubule-Targeted Chemotherapy, 2022, January 28.

Dr. Garima Khare Organized (online) Training Programme on "Advanced training course on TB research in BSL3 and protocols", 2021, November 01.



Organized (online) Training Programme on “BSL-3 Laboratory Training and Handling Practices for Mycobacterium tuberculosis”, 2021, July 25.

Organized (online) Training Programme on “Working in BSL3 Laboratory and Practices for Handling Mycobacterium tuberculosis”, 2021, March 28.

Prof. Amit Singh Prof., Indian Institute of Science, Bengaluru, Decoding Redox Language underlying HIV Latency: From Molecular Mechanism to Therapeutic Implications, 2021, December 03.

Prof. Subhash C. Lakhotia, Distinguished Prof. (BHU) & SERB Distinguished Fellow, Integrity and Ethics in Research, 2021, November 30.

Seminar/Conference Presentations

Prof. Suman Kundu

Invited plenary talk: “Structural Proteomics: Engineering Heme Stability in Artificial Oxygen Carriers”,

Proteomics Day Symposium, CSIR – Indian Institute of Chemical Biology (IICB), March 21, 2022. Kolkata, India.

Chief Guest and Invited Talk “Chemistry, Physics, Biology: Proteins, Hemoglobin” National Science Day on the theme Integrated Approach in Science and Technology for Sustainable Future, Chaudhary Bansi Lal University, Bhiwani, Haryana, February 28, 2022.

Invited Talk “Development of Strategies to Combat Human Diseases: Identification of Inhibitors of ARL15 with Potential to treat Rheumatoid Arthritis”, for Hirosaki Agriculture and Life Science Workshop, 2022, February 21-22, 2022 (talk on Feb 21, 2022), Hirosaki University, Japan.

Chief Guest, Valedictory session, International Conference on “Evolving Business Strategies in a Transforming Global Environment”, Jesus and Mary College, University of Delhi, January 20-21, 2022.

Invited for Talk on “Novel Plant Hemoglobin Proteome from Arabidopsis thaliana: What do their Structure and Fold Unfold?”, Delhi University Botanical Society, Department of Botany, University of Delhi, Plant Proteomics Workshop on Next Generation Proteome Mining and Nano-Bio Interactions for Better Plant Growth, December 29, 2021.

Chaired a session at the 48th National Seminar on Crystallography (NSC-48), Indian Institute of Technology, Roorkee, 25th-27th November, 2021.

Invited Talk: “Hemoglobins – The Red Goldmine” at Miranda House, University of Delhi, in collaboration with the Teaching Learning Center, Ramanujan College for Refresher Course in Life Sciences. September 13, 2021.

Invited Talk: “Hemoglobins – The Red Goldmine”, at the Department of Biochemistry, Dr. N.P.G. Arts and Science College, Coimbatore, Tamil Nadu on June 4, 2021.

Prof. Alo Nag

Invited as a distinguished speaker at 15th International Symposium on “Recent Trends in Cancer Prevention and Interception – Bench to Bedside” organized by School of Life Sciences and Special Centre for Systems Medicine, JNU on 23rd February 2022. Title of the talk: “Anaphase Promoting Complex/ Cdh1- a novel target of HPV16E7”.

Invited as Chief Guest to address the participants and the organizers in the valedictory session of an Online Workshop on SLR Meta-analysis and Bibliography Research, organised under the aegis of DBT Star College Scheme (SCS) by the Department of Biochemistry, Shivaji College from November 12-16, 2021.

Invited as a Chief Guest for Inaugural address on “Significance of Research Methodology” during Inter-College Online Summer Training Program on RESEARCH METHODOLOGY 2.0 at Shivaji College (June 21-July 19, 2021).



Prof. Debi P. Sarkar

Invited as a Chief Guest to address and inaugurate a 3-day online workshop on the theme "Green synthesis of nanoparticles and their biomedical applications" organised under the aegis of DBT Sponsored Star College Scheme, Govt. of India by the Shivaji College, DU on 4th February, 2022.

Invited speaker of a popular inspiring talk entitled "Inspiring Influence of Pre-Independence Scientific Role Models in the Fruition of Present Glorious Achievements: An Era of Health Research in India" (webinar) on the occasion of "Azadi Ki Amrit Mahotsav" national celebrations of the Department of Physiology, Vidyasagar University, West Bengal on 25th January, 2022.

Delivered an invited inspiring popular talk on "Azadi Ki Amrut Mahotsav" at IASST, DST, Govt. of India, Guwahati, Assam on 13th April 2021.

Invited as a "Chief Guest" of the Valedictory Function of "Online Summer Training Program on Research Methodology 2.0, from June 21st to 20th July 2021" on July 20th 2021 conducted by the faculty members of Biochemistry Department, Shivaji College.

Invited as a Virology expert to participate in a webinar entitled "Possibilities of Covid-19 3rd wave in India and our preparedness", Dept of Biochemistry, Shaheed Rajguru College of Applied Sciences for Women on 22nd May 2021.

Invited by the Central University of Gujarat, Gandhinagar, under "Unnat Bharat Abhiyan" and "National Service Scheme" to deliver a talk entitled "Responding to the Challenges of COVID-19: Awareness and Prevention" on 8th May 2021.

Dr. Garima Khare

Delivered an oral presentation (invited speaker talk) at the '2nd World Congress and Expo on Cell and Stem Cell Research' held on October 7th, 2021, organised by Cell and Stem Cell 2021

National/International MoUs Signed

Collaborative Research Agreement on "Pathophysiological investigations of Sickle Cell Disease and Interventions to improve associated Hemorheological Abnormalities" with Sri Sri College of Ayurvedic Science and Research Hospital, Sri Sri University, Cuttack, Odisha for 5 years from December 9, 2021.

Extension and Outreach Activities

A Department visit by the Faculty and students of Department of Biochemistry, Shivaji College, University of Delhi was held on 22nd March 2022. The Undergraduate students were oriented about the history and research activities of the Department. They were shown all the labs where Department faculties interacted with them and briefed about the functioning of sophisticated instrumentation and their applications.

Faculty Strength: 06

Number of Ph.D. Degrees Awarded: 04

Department of Biophysics

Brief History

The Department of Biophysics was established in 1985. The Department started functioning with one faculty member; Prof. U.N. Singh who had joined in 1985. The Department began research activities in Theoretical & Mathematical Biology. In 1988, Dr. Subhendu Ghosh joined as a Lecturer followed by Dr.

Dinkar Sahal (Lecturer). In 1990, Dr. Sudipto Das joined as a Reader and set up a state of art electrophysiology facility that included patch-clamp and bilayer lipid membrane electrophysiology unit.

The Department has been offering a Ph.D. programme in Biophysics since it's



establishment. It also actively participated in the M.Phil. (Biotechnology) programme, which was being run jointly by the Departments of Biophysics, Biochemistry, Microbiology and Genetics. The department has started M.Phil. Biophysics from the Academic Year 2018-19. From the Academic Year 2020 department has started M.Sc. Biophysics course.

The Department has well established research labs funded by Extramural grants from DBT, DST, ICMR, CSIR, UGC, as well as intramural grants from the University of Delhi. The department offers research opportunities in the areas of structural and computational biology. It is equipped with electrophysiological set up (patch clamp and bilayer systems), which are the most sensitive tools to study such channels. The experimental work is supported by extensive mathematical and computational analysis, e.g., mathematical modeling and neural networks. The objective of structural biology work is to understand the structure-function-evolution relationship in proteins from various organisms, particularly extremophiles using various biophysical techniques like CD spectroscopy and X-ray crystallography. The department is also involved in research in the areas of metagenomics and molecular modeling. The thrust area of bioinformatics is genome and protein sequence analysis particularly in relation to function.

The alumni of Department have carved a niche for themselves by occupying positions as independent PI (University of California San Francisco USA, Indian Institute of Technology-Madras, All India Institute of Medical Sciences, New Delhi) or post-doctoral fellows (National Institute of Health (USA), Washington University School of Medicine in St. Louis (USA), Institute of Human Genetics (France) in Universities and research institutes in both India and abroad.

Major Activities and Achievements

Manish Kumar's research group works on multiple problems/fields, which are important for translational research. Some research interests include analysis of microbial genomes

and proteomes using bioinformatics, cheminformatics and phylogenomics tools to understand mechanisms behind evolution and spread of virulence and antibiotic resistance among microbes. He predicts functional interactions between proteins in metabolic and signaling pathways or protein complexes and use this information to predict potential targets for diagnostics, vaccines and/or therapeutics. He also uses molecular modeling and computer-based simulation techniques for structure-based drug designing, translational medicine and protein family-based approaches to repurpose the known drugs and/or identify novel drugs. Kumar's lab also uses Next Generation Sequencing-based metagenomic data to analyze the load of antibiotic resistance genes in different biotic reservoirs. They have constructed a library of reported antibiotic-resistance genes to annotate Next Generation Metagenomic samples. This library is being used to develop point-of-care diagnostic tests for predicting antimicrobial resistance in the urinary tract and other infections. His lab collaborates closely with experimental scientists in generating translational outcomes of in-silico experiments and vice versa.

The annotation pipelines for genome databases are few compared to the whole genome sequences available in the public databases, resulting in a large number of incomplete/improperly-annotated genomes. Kumar's group is actively developing in-silico methods for annotating genomes, proteomes and metabolomes of the sequenced genomes. Prof. Manisha Goel's group works with structural bioinformatics and is currently exploring the role of prosequences in protein folding and function. They are also interested in the mechanism of action of Cas proteins involved in CRISPR function.

Honours/Distinctions

AWSAR Award to Ms. Deeksha Pandey (Ph.D. student) by the Department of Science and Technology for the year 2021 under the Ph.D. category.



Publications

Research Articles

Anchal, Kaushik, V., & Goel, M. (2021). Distribution of Peptidyl-Prolyl Isomerase (PPIase) in the Archaea. *Frontiers in Microbiology*, 12, 751049.

Babbar, Mohanty, S., Dabburu, G. R., Kumar M., & Khasa, Y. P. (2022). Heterologous expression of novel SUMO proteases from *Schizosaccharomyces pombe* in *E. coli*: Catalytic domain identification and optimization of product yields. *International Journal of Biological Macromolecules*, 209(Pt A), 1001–1019.

Garg A., Dabburu, G. R., Singhal, N., & Kumar M. (2022). Investigating the disordered regions (MoRFs, SLiMs and LCRs) and functions of mimicry proteins/peptides in silico. *PLoS One*, 17(4), e0265657.

Kaushik, V., Anchal, & Goel, M. (2022). Characterization of Cyclophilin from Thaumarchaeota Implications on the Diversity of Chaperone-like Activity in the Archaeal Domain. *ACS Omega*, 7(1), 70–84.

Pandey, D., Singhal, N., & Kumar M. (2021). Investigating the OXA Variants of ESKAPE Pathogens. *Antibiotics (Basel, Switzerland)*, 10(12).
<https://doi.org/10.3390/antibiotics10121539>.

Sharma D., Aswal, M., Ahmad, N., Kumar M., & Khan, A. U. (2022). Proteomic Analysis of the Colistin-resistant Clinical Isolate: Explorations of the Resistome. *Protein and Peptide Letters*, 29(2), 184–198.

Singhal, N., Garg A., Singh N., Gulati, P., Kumar M., & Goel, M. (2021). Efficacy of signal peptide predictors in identifying signal peptides in the experimental secretome of *Picrophilus torridus*, a thermoacidophilic archaeon. *PLoS One*, 16(8), e0255826.

Singh N. S., Singhal, N., Kumar M., & Viridi, J. S. (2022). Public health implications of plasmid-mediated quinolone and aminoglycoside resistance genes in inhabiting a major

anthropogenic river of India. *Epidemiology and Infection*, 1–21.

Singh N. S., Singhal, N., Kumar M., & Viridi, J. S. (2022). Public health implications of plasmid-mediated quinolone and aminoglycoside resistance genes in inhabiting a major anthropogenic river of India. *Epidemiology and Infection*, 1–21.

Research Projects

2022-2027 DST-SERB-funded. Co-PI- Manisha Goel and Manish Kumar. Center of Antibody Engineering: Center for Immuno-Diagnostics! Therapeutics Veneering technologies (CIVET).

2022-2025 ICMR-funded. PI-Manish Kumar. Using the National COVID-19 testing database to develop a machine learning model for rapid prioritization/triage of SARS-CoV2 patients and demographic groups.

2019-2022 ICMR-funded. PI-Manish Kumar. In-silico analysis and functional characterization of intergenic regions of ESKAPE pathogens to develop novel drug targets Unfolded Protein Response: Achilles heels of fungal pathogenesis.

2019-2022 ICMR-funded. PI-Manish Kumar. Using Dengue virus protein exhibiting molecular mimicry with host proteins as novel drug targets.

ICMR-funded. PI-Manisha Goel. The role of prosequences in modulating the structure of proteins.

DST-SERB. PI-Manisha Goel. Characterization of the functional specificity of archaeal Cas4 (CRISPR associated protein 4) proteins for potential applications in genome editing strategies.

ICMR-funded PI-Manisha Goel. Accelerating drug discovery path by delineating the structural differences leading to functional divergence in virulence factor proteins found in pathogenic bacteria.



Seminar/Conference Presentations

Manish Kumar (Oct 2021). In-silico tools for study of antimicrobial resistance in bacteria. Invited Talk (Online) at Tools and Techniques For Prediction Of Antimicrobial Resistance at Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh

Manish Kumar (Oct 2021). Identification of chloroplast and sub-chloroplast proteins from sequence-attributed features using support vector machine and domain information 2021 Paper presentation (Online) at IEEE Conference on Computational Intelligence in

Bioinformatics and Computational Biology (CIBCB) at Melbourne, Australia.

Manish Kumar (Oct 2021). In-silico tools for characterization and prediction of antimicrobial resistance. Invited Talk (Online) on Health Informatics Summit Indraprastha Institute of Information Technology, New Delhi.

Faculty Strength: 02

Number of M.Phil. Degrees Awarded: 01

Department of Electronic Science

Brief History

The Department of Electronic Science was established in 1985 and is widely recognised as one of the most prestigious Electronic Science Departments in the country. The Department is conducting courses leading to M. Tech in Microwave Electronics, M.Sc. in Electronics and Ph.D. in Electronics. The aim of these programmes is to provide the necessary theoretical background and practical experience to meet the requirements of R&D Organizations and Industries. In addition, the M. Tech and M.Sc. students work for 6 months on projects in collaboration with Industry and R&D Organisations. The curriculum of these courses is updated regularly to keep it in consonance with the changing industrial environment. The interface with the industry is further enhanced by an annual seminar under the Visitor's Programme in which professionals from industry, R&D organizations and academics are invited. Our alumni are now spread over a large number of government and private organisations.

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, semiconductor materials and devices, no-materials, microwaves and

microelectronics. The Department has national and international collaborations and several research projects funded by the CSIR, SERB, DRDO etc. All faculty members in the Department are effectively using virtual platforms such as Microsoft Teams, Google classroom, etc. to teach post-graduate students. Apart from this, the Department organizes seminars, lectures and talks on a regular basis. Every year, the Department organizes a Visitors' programme. Due to the pandemic, this year (2021-2022), the programme was converted into a lecture series in which the speakers from alumni delivered lectures.

Honours/Distinctions

Prof. Mridula Gupta, has been promoted to Senior Prof. level.

Miss. Anamika Kem received the Best Poster Award in session in International Workshop on the Physics of Semiconductor Devices (IWPSD 2021) for her paper titled "Cost-effective green synthesis of ZnO nanoparticles using limon by sol gel method for photonic applications".



Publications

Research Articles

Birwal, A., Singh S., & Kanaujia, B. K. (2021). A novel design of ultra-wide stop-band single-layer frequency selective surface using square-loop and cross, *International Journal of Microwave and Wireless Technologies*, 8, 13, 800-809.

Prashant Chaudhary, Ashwani Kumar Pramod Kumar BK Kanaujia, Amit Birwal, (2021). Design of a new metasurface and its application for linear to circular polarisation conversion, *International Journal of Electronics*, 3, 108, 411-425.

A. Birwal, V. Kaushal and K. Patel, (2022). Design of a new metasurface and Investigation of Circularly Polarized CPW fed Antenna as a 2.45 GHz RFID Reader, *IEEE Journal of Radio Frequency Identification*, 1-1.

Amit Birwal, Sanjeev Singh Binod Kumar Kanaujia, Sachin Kumar (2021). MIMO/diversity antenna with neutralization Line for WLAN applications, *MAPAN*, 4, 36, 763-772.

Sehgal, P. and Patel, K, (2021). Performance Analysis and Impedance Modeling of Rectangular and Circular Split-Ring Resonator Antennas in 2.4/5.2 GHz Bands, *Progress in Electromagnetics Research C*, 117, 159-171.

Chaudhary, P., Kumar A., Kumar P., Patel, K., Arya, R. K., & Verma, A. K. (2022). 360° angular coverage pattern and polarization diversities wideband circularly polarized multiple input multiple output antennas, *International Journal of RF and Microwave Computer-Aided Engineering*, 2, 22, e22981.

Chaudhary, P., Kumar A., Patel, K., Arya, R. K., Ali, M., & Verma, A. K. (2021). 3D prism shaped circularly polarised MIMO diversity antenna with 360° angular coverage, *International Journal of Electronics Letters*, doi:10.1080/21681724.2021.2001847 (published online).

Sharma.M, Narang.R, Saxena.M, Gupta,.M, (2021). Modeling and Simulation-Based Investigation of 2-D Symmetric Double Gate Dopingless-TFET and Its Circuit Performance for LowPower Applications, *IETE Technical Review*, 1-12.

Kumari.V, Gupta,.M, Saxena.M, (2021). Impact of Non-Uniform Doping on the Reliability of Double Gate Gate-Junction-Less Transistor: A Numerical Investigation, *IETE Technical Review*, 1-10.

Yadav.H, Ray.K P, Gupta,.M, (2021). Differential Multi-Resonator Stacked Microstrip Antenna for Wireless Energy Harvesting, *International Journal of RF and Microwave Computer-Aided Engineering*, 10, 31, 1-13.

Kumari.V, Gupta,.M, Saxena.M, (2021). TCAD-based investigation of Double Gate JunctionLess Transistor for UV Photodetector, *IEEE Transactions on Electron Devices*, 6, 68, 2841-2847.

Das., Kumari. V, Sehra. K, Gupta,. M, Saxena. M, (2021). TCAD Based Investigation of Single Transient Effect in Double Channel AlGaN/GaN HEMT, *IEEE Transactions on device and Materials Reliability*, 3, 21, 416-423, 2.

Sital.S, B. Anjali, Sharma Enakshi, Gupta,. M, (2021). Optimization of multimode Fibers for surface Plasmon Resonance based Sensors under spectral and single wavelength intensity Interrogation, *Plasmonics*, 2, 17, 665-673.

Anand. A, Reeta, Rawal Drang R, Mishra,. M, Saxena M, Gupta, M, (2021). A comparative study on the accuracy of small-signal equivalent circuit modeling for large gate periphery GaN HEMT with different source to drain length and gate width, *Microelectronics Journal*, 118, 105258.

Singh.P, Kumari.V, Saxena.M, Gupta,.M, (2021). TCAD investigation for Dual-Gate



MISHEMT with Improved Linearity and Current Collapse for LNAs, IETE Technical Review, 1-12.

Singh. P, Kumari. V, Saxena. M, Gupta,. M, (2021). E-mode All-GaN Integrated Cascode MISHEMT with GaN/InAlGaN/GaN backbarrier for high power switching performance: Simulation Study, Micro and Nanostructures, 164, 107118.

Upasana, S. Manoj and Gupta,.M. (2022). Undoped Drain Graded Doping (UDGD) based TFET design: An innovative concept, Micro and Nanostructures, 163, 107147.

Khurana. M, Upasana, Saxena. M and Gupta,. M. (2022). Modelling and Simulation of Ge Absorber-based Tunnel Field-Effect Phototransistor at 1550 nm, IETE Technical Review, 1-12.

Singh. P, Kumari. V, Saxena. M, Gupta,. M, (2021), E-mode All-GaN- Integrated Cascode MISHEMT with GaN/InAlGaN/GaN back-barrier for high power switching performance: Simulation Study, Micro and Nanostructures, 164, 107118.

Upasana, S. Manoj and Gupta,.M. (2022). Undoped Drain Graded Doping (UDGD) based TFET design: An innovative concept, Micro and Nanostructures, 163, 107147.

Khurana.M, Upasana, Saxena. M and Gupta,. M. (2022). Modelling and Simulation of Ge Absorber-based Tunnel Field-Effect Phototransistor at 1550 nm, IETE Technical Review, 1-12.

Pasupuleti, K. S., Reddeppa, M.m, D. J., Bak, N. H., Peta, K. R., Cho, H. D., ... & Kim, M. D. (2021). Boosting of NO₂ gas sensing performances using GO-PEDOT: PSS nanocomposite chemical interface coated on langasite-based surface acoustic wave sensor. Sensors and Actuators B: Chemical, 344, 130267.

Kaur, H., Tiku, V., Prasad, A., Singh Y. A., Jaiswal, V. V., Rao, P. K., ... & Haranath, D.

(2022). Luminescent and colorimetric properties of the sol-gel derived mono-phase Dy³⁺ doped silicate-based phosphor for w-LED applications, Journal of Sol-Gel Science and Technology, 101(1). 443-452.

Books/Chapter in Books

Amit Birwal, (2021). Importance and uses of microstrip antenna in IoT. Planar antennas: Design and Applications, Boca Raton, Florida, USA, CRC Press, 9781003187325-10, 185-199.

Research Projects

(IoE), University of Delhi, 2021-2022, Qualification of Indium HEMT technology for space Applications.

(IoE), University of Delhi, 2021-2022, Modelling, Design and Simulation of Novel Lateral Ga₂O₃ MOSFETs for Microwave Applications.

(IoE), University of Delhi, 2021-2022, Chemical synthesis and characterization of rare-earth metal ion doped ZnO nanostructure for photonic applications.

Collaboration Project with IUAC, 2021-2022, Fabrication and characterization of ion induced graphene quantum dots abetted Field-Effect Transistors (I-GQDs-FET) for detection of allergen bio-compounds.

(IoE), University of Delhi, 2021-2022, Investigation of Dual and Triband Antennas Potential for 5G communications.

Seminars/Conferences

Mr. Vinit Verma (Electronics Manufacturing Industry in India), Dr. Hema Mehta Kapoor (An Introduction to PCB Manufacturing and Assembly), Ms. Monika Bansal (Process Flow and Virtual Tour of PCB and PCBA Unit), Director, PROSEM Technology India Pvt. Ltd. Director (Operations and Management) HMPCB Solutions Director (Circuit Design and Technical Support) HMPCB Solutions, PCB Manufacturing and Assembly, 2021, September 07.

Dr. Nasimuddin (Antennas for RF Energy harvesting system design) Dr. Yogesh Verma (Phased array and Gimbel version seekers), Scientist, SRO, Institute for Infocomm



Research, A*STAR Head - AD & AESA Seekers Division, Research Centre Imarat, DRDO Hyderabad, Distinguished Alumni Lecture Series, 2021, September 29.

Prof. Durga Misra (Nanoelectronics to Nanotechnology: More Moore and more than Moore), New Jersey Institute of Technology (NJIT), Newark, USA, 20-10-2021, IEEE EDS Distinguished Lecturer Talk, 2021, October 20.

Dr. Meena Mishra, (Application of GaN based devices in RF Electronics) Prof. K. P. Ray (Microwaves in medical fields including neutralizing COVID-19 virus), SSPL, DRDO DIAT, Pune, Distinguished Alumni Lecture Series, 2021, October 22.

Prof. Jesús A. del Alamo (3D Integration: above and beyond Moore's law), Massachusetts Institute of Technology, IEEE EDS Distinguished Lecturer Talk, 29-10-2021.

Dr. Anirban Bandyopadhyay (Differentiated Silicon for Non-Terrestrial Broadband Internet addressing the digital divide), Senior Director, Strategic Applications, GLOBALFOUNDRIES, Inc., US, IEEE EDS Distinguished Lecturer Talk, 2021, November 12.

Sh. Pankaj Sharma (TV White Space technology: Opportunities and Challenges), Senior Manager, Institute of Microelectronics (Agency for Science, Technology & Research) & Co-Founder, Whizpace), Technical Talk (Distinguished Alumni Lecture Series). 2021, December 09.

Sh. Raj Singh (Role of Science and Technology in the Development of Society), Scientific Officer – H, Institute for Plasma Research, Gandhinagar, Technical talk - Distinguished Alumni Lecture Series, 13-01-2022

Prof. Brajesh Kaushik (Spintronics-Perspectives and Challenges), IIT Delhi, IEEE Distinguished Lecture, 2022, February 10.

Shri Vaibhav Agarwal, General Manager (Special Products), Astra Microwave Products

Ltd., Hyderabad, Department of Electronic Science, Distinguished Alumni Lecture Series, 2021, November 17.

Shri Shiv Dutt, RF Lead Engineer, Sterlite Technology Limited, Gurugram, Department of Electronic Science, Distinguished Alumni Lecture Series, 2021, November 17.

Prof. Eng-Hock Lim, Prof., Universiti Tunku Abdul Rahman, Malaysia, Webinar: Design and Applications of the Metal-Mountable UHF RFID Tag Antennas, 25-11-2021.

Dr. Srinivasa Rao, Senior Scientist, CSIR-National Physical Laboratory, New Delhi, Department of Electronic Science, Annual Visitor Programme, 2022, February 28.

Dr. Alok Verma, Sr Scientist, Photonics Division, SAMEER, Mumbai, Department of Electronic Science, Annual Visitor Programme, 2022, February 28.

Dr. Soumava Mukherjee, Assistant Prof., Department of Electrical Engineering, Indian Institute of Technology, Jodhpur, Department of Electronic Science, Annual Visitor Programme, 2022, February 28.

Dr. Anirban Bera, Principal Scientist, Group Head, CSIR-CEERI, Pilani, Department of Electronic Science, Annual Visitor Programme, 2022, February 28.

NA, SIMULA, JV MICRONICS, AIDC Technologies, QODE NEXT, Technowave, RS Barcoders Pvt. Ltd., STALLION Group IEEE APS & CRFID Delhi Chapter, 2021 IEEE International Conference on RFID Technology and Applications (RFID-TA), 2022, February 28.

Mr. Vinit Verma, Director, PROSEM Technology India Pvt. Ltd., IEEE EDS Delhi Chapter & DOES, UDSC, PCB Manufacturing and Assembly, 2021, September 07.

Dr. Hema Mehta Kapoor, Director, (Operations and Management) HMPCB Solutions, IEEE EDS Delhi Chapter & DOES,



UDSC, PCB Manufacturing and Assembly, 2021, September 07.

Ms. Monika Bansal, Director, (Circuit Design and Technical Support) HMPCB Solutions, IEEE EDS Delhi Chapter & DOES, UDSC, PCB Manufacturing and Assembly, 2021, September 07.

Dr. Nasimuddin, Scientist, SRO, Institute for Infocomm, Research, A*STAR, Singapore, IEEE EDS Delhi Chapter & DOES, UDSC, Antennas for RF Energy harvesting system design, 2021, September 29.

Dr. Yogesh Verma, Scientist - "G", Head, AD Seekers, Division, Project Director (AESAs) at Research, Centre Imarat (RCI), DRDO, Hyderabad, IEEE EDS Delhi Chapter & DOES, UDSC, Phased Array and Gimbal Version Seekers, 2021, September 29.

Prof. Durga Misra, NJIT, USA, IEEE EDS Delhi Chapter & DOES, UDSC, nanoelectronics to nanotechnology: More Moore and more than Moore, 2021, October 20.

Dr. Meena Mishra, Scientist G, Solid State Physics Laboratory (SSPL), DRDO, New Delhi, India, IEEE EDS Delhi Chapter & DOES, UDSC, Application of GaN based devices in RF Electronics, 2021, October 22.

Prof. K.P. Ray, Director, School of Radar Technology, Head, EE Dept & Chief Public Information Officer (CPIO), DIAT, DRDO, India, IEEE EDS Delhi Chapter & DOES, UDSC, Microwaves in medical fields including neutralizing COVID-19 virus, 2021, October 22.

Prof. Jesús A. del Alamo, Microsystems Technology Laboratories, Massachusetts Institute of Technology, USA, IEEE EDS Delhi Chapter & DOES, UDSC, 3D Integration: above and beyond Moore's law, 2021, October 29.

Dr. Anirban Bandyopadhyay, Senior Director, Strategic Applications, GLOBALFOUNDRIES, Inc., USA, IEEE EDS Delhi

Chapter & DOES, UDSC, Differentiated Silicon for Non-Terrestrial Broadband Internet addressing the digital divide" and Senior Director, Strategic Applications, 2021, November 12.

Shri Vaibhav Agarwal, General Manager, Astra Microwave Pvt. Ltd., India, IEEE EDS Delhi Chapter & DOES, UDSC, Make in India and Opportunities in Defense Sector, 2021, November 17.

Shri Shiv Dutt, RF Lead Engineer, Sterlite Technology Limited, India, IEEE EDS Delhi Chapter & DOES, UDSC, Analog RF Front End Architecture, 2021, November 17.

Prof. Eng-Hock Lim, Universiti Tunku Abdul Rahman, Malaysia and the Chairperson of the Center for the UTAR Communication Systems and Networks., IEEE APS & CRFID Delhi Chapter & DOES, UDSC, Design and Applications of the Metal-Mountable UHF RFID Tag Antennas, 2021, November 25.

Mr. Pankaj Sharma Senior Manager, Institute of Microelectronics & Co-founder, Whizpace, IEEE EDS Delhi Chapter & DOES, UDSC, TV White Space technology: Opportunities and Challenges, 2021, December 09.

Sh. Raj Singh Scientific Officer – H, Institute for Plasma Research, Gandhinagar, IEEE EDS Delhi Chapter & DOES, UDSC, Role of Science and Technology in the Development of Society, 2022, January 13.

Mr. Vishal Gupta, Segment Manager (India) and Solutions Architect at Keysight Technologies, IEEE EDS Delhi Chapter & DOES, UDSC, 6G: Testing next-generation sub-terahertz applications, 2022, January 21.

Prof. Brajesh Kumar Kaushik, Department of Electronics and Communication Engineering, IIT Roorkee, IEEE EDS Delhi Chapter & DOES, UDSC, Spintronics-Perspectives and Challenges, 2022, February 10.



Dr. Srinivasa Rao, Senior Scientist RIKEN Fellow, CSIR, New Delhi, IEEE EDS Delhi Chapter & DOES, UDSC, Portable Tetrahertz Sources for Home Land Security Applications, 2022, February 28.

Dr. Alok Verma, Senior Scientist, SAMEER, Mumbai, IEEE EDS Delhi Chapter & DOES, UDSC, Photonics Research at SAMEER and its Future, 2022, February 28.

Dr. Soumava Mukherjee, Assistant Prof., IIT Jodhpur, IEEE EDS Delhi Chapter & DOES, UDSC, 5G Millimeterwave antennas and circuits using substrate integrated coaxial line (SICL) technology, 2022, February 28.

Dr. Anirban Bera, Principal Scientist, Group Head, CSIR-CEERI, Pilani, India, IEEE EDS Delhi Chapter & DOES, UDSC, Metamaterial, Plasmonics and Photonic Crystal: Manipulating EM Wave beyond conventional ways, 2022, February 28.

Prof. Sanjeev Singh Joint Director University of Delhi, IEEE EDS Delhi Chapter & DOES, UDSC, Cyber Physical System: Opportunities and challenges, 2022, March 26.

Dr. Amita Kapoor, Former Associate Prof., Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, IEEE EDS Delhi Chapter & DOES, UDSC, Transfer learning: An Overview, 2022, March 29.

Prof. Adam W. Skorek, University of Quebec, Canada, IEEE EDS Delhi Chapter & DOES, UDSC, Artificial Intelligence and brain Biofields Quantum Computing, 2022, March 30.

Dr. Subhash Chander, Scientist F, SSPL, DRDO, IEEE EDS Delhi Chapter & DOES, UDSC, Monolithic Microwave Integration Circuit (MMIC) Present and Future, 2022, March 30.

Seminar/Conference Presentations

Keynote talk - "Research Methodology & Innovations In Electronic Science" at Department of Electronics, DDU Gorakhpur University during, 2021, July 3-9.

Invited Talk - "Trends & Issues on VLSI and Communication Engineering" at Department of ECE, GJUS & T, Hisar 25th October – 30th October 2021.

Invited talk - "Small Signal Equivalent Circuit Model Parameter Extraction and Effective Mobility extraction of AlGaIn/GaN HEMT using S-parameter" at IEEE VLSI DCS 2022, 3rd IEEE Conference on VLSI Device, Circuit and System, 2022, February 26 – 27. Kolkata, India.

Sehra K., Kumari V., Gupta, M., Mishra, M., Rawal D. S., and Saxena. M. (2021). Degradation Mechanisms in a Proton Irradiated HEMT with 3DEG Conduction and 3DHG as a Back Barrier. 21st IEEE International Conference on Nanotechnology (IEEE – NANO), Montreal, Canada, doi: 10.1109/NANO51122.2021.9514295.

Das. S, Sehra. K, Kumari. V, Gupta,. M and Saxena. M. (2021). Comparative Investigation of Single and Double Channel AlGaIn/GaN HEMTs for LNA. The XXIst International Workshop on the Physics of Semiconductor Devices (IWPSD 2021).

Anand. A, Rawal D. S. rang. R, Mishra,. M, Saxena. M and Gupta,. M. (2021). Effective Mobility Extraction of GaN-HEMT Using S-parameter," presented in XXIst International Workshop on Physics of Semiconductor Devices (IWPSD 2021), 2021, December 14-17. , IIT Delhi, SSPL, DRDO, Delhi, India.

Khurana. M, Upasana, Saxena. M and Gupta,. M. (2021). Impact of pocket doped Mg₂Si/Si heterojunction Ge gated TFET for low optical power detection at 1550 nm. XXIst International Workshop on the Physics of Semiconductor Devices (IWPSD 2021), 2021, December 14-17. IIT Delhi, SSPL, DRDO, Delhi, India.

Sharma. Mrang. R, Saxena. M and Gupta,. M. (2021). RF Analysis of Tapered Angle Heterojunction Dopingless TFET for low power applications. XXIst International Workshop on the Physics of Semiconductor Devices



(IWPSD 2021), 2021, December 14-17, IIT Delhi, SSPL, DRDO, Delhi, India.

Khurana. M, Upasana, Saxena. M and Gupta,. M. (2022). Magnesium-Silicide (Mg₂Si)/Silicon (Si) Heterojunction based TFET for Optical Detection at 1550 nm. 3rd IEEE Conference on VLSI Device, Circuit and System (IEEE VLSI DCS-2022), 2022, February 26-27, Meghnad Saha Institute of Technology, Kolkata, India.

Sharma. Mrang. R, Saxena. M and Gupta,. M. (2022). Single event transient effect on tapered angle hetero-junction dopingless TFET for radiation-sensitive applications. 3rd IEEE Conference on VLSI Device, Circuit and System (IEEE VLSI DCS-2022), 2022, February 26-27, Meghnad Saha Institute of Technology, Kolkata, India.

Pandey, P and Kaur H (2021) Improved device performance of polarity controllable–ferroelectric–field effect transistor under the influence of fixed trap charges, 2021 IEEE Latin America Electron Devices Conference (LAEDC), Mexico, 2021, April 19-21. DOI: 10.1109/LAEDC51812.2021.9437921. Electronic ISBN:978-1-6654-1510-1.

Birwal, A., Kaushal, V., & Patel, K. (2021). Circularly polarized broadband co-planar waveguide fed antenna for 2.45 GHz RFID reader. Paper presented at the 2021 IEEE International Conference on RFID Technology and Applications, RFID-TA 2021, 109-112. doi:10.1109/RFID-TA53372.2021.9617300.

Kaushal, V., Birwal, A., Patel, S. M., & Patel, K. (2021). Path loss of two-port circular-ring slot antenna for RFID applications. Paper presented at the 2021 IEEE International Conference on RFID Technology and Applications, RFID-TA 2021, 120-123. doi:10.1109/RFID-TA53372.2021.9617413.

Anamika kem and Koteswara Rao Peta, "Cost-effective green synthesis of ZnO nanoparticles using limon by sol gel method for photonic applications" IWPSD-2021, December 14-17, Indian Institute of

Technology and Solid-State Physics Laboratory, Delhi, India.

Mohd. Rehan Ansari, Anamika Kem and Koteswara Rao Peta" Synthesis of ZnO Nano-Powder by Microwave-Assisted Solution Combustion Method and Effect of Citric Acid Concentration on Crystallinity of ZnO" IWPSD-2021, December 14-17, Indian Institute of Technology and Solid-State Physics Laboratory, Delhi, India.

G. Hari Priya, K.M.K. Srivatsa, and Koteswara Rao Peta, "Insights of interface of ceo₂-based MOS structure developed by solution method" IWPSD-2021, December 14-17, Indian Institute of Technology and Solid-State Physics Laboratory, Delhi, India.

Dhananjaya Panda and Koteswara Rao Peta, "Finite element method analysis of VOCs sensing via single-phase unidirectional transducers interleaved polybutene SAW sensor, World Sensor Congress (WSC-2022), March 08-10, Center for Materials for Electronics Technology (CMET) Thrissur, Kerala.

Birwal, A., Kaushal, V., & Patel, K. (2021). Circularly polarized broadband co-planar waveguide fed antenna for 2.45 GHz RFID reader. Paper presented at the 2021 IEEE International Conference on RFID Technology and Applications, RFID-TA 2021, 109-112. doi:10.1109/RFID-TA53372.2021.9617300.

V. Kaushal, A. Birwal, S. M. Patel, K. Patel, "Path Loss of Two-Port Circular-Ring Slot Antenna for RFID Applications", 11th IEEE International Conference on RFID Technology and Applications (IEEE RFID-TA 2021), October 6-8, 2021, Delhi, India.

A. Birwal, V. Kaushal, K. Patel, "Circularly Polarized Broadband Co-Planar Wave-guide fed Antenna for 2.45 GHz RFID Reader", 11th IEEE International Conference on RFID Technology and Applications (IEEE RFID-TA 2021), October 6-8, 2021, Delhi, India.



P. Chaudhary, A. Yadav, A. Kumar K. Patel, et al, Ring with Rectangular Stub MIMO Antenna for RFID Applications, 11th IEEE international Conference on RFID Technology and Applications (IEEE RFID-TA 2021), October 6-8, 2021, Delhi, India.

Invited talk on "Ferroelectric Negative Capacitance Junction-less Transistors for Ultra Low Power Applications" in 7th International Conference on Microelectronics, Circuits and Systems (MICRO 2020) jointly organized by Applied Computer Technology, Kolkata, India and Delhi Technological University, Delhi, India on 2021, May 08-09.

Invited talk on "Negative Capacitance FETs – Emerging Prospect for Ultra Low Power Applications" in National Virtual Conference

on "Innovations in Electronics and material Science" organized by Nehru Arts and Science College, Coimbatore and sponsored by DBT – Ministry of Science and Technology, Govt. of India on 2021, May 31.

Invited talk on" Introduction to VHDL and Applications" organized by the Department of Electronics, Jammu University, March 2022.

Other Inter-Institutional Collaborations

Delhi Technological University

Faculty Strength

Senior Professor: 01

Assistant Professors: 06

Number of Ph.D. Degrees Awarded: 07

Department of Genetics

Brief History

The Department of Genetics was established in 1984 as a part of the Faculty of Inter-disciplinary & Applied Sciences at the University of Delhi South Campus (UDSC). The department has over the years, emerged as a strong hub for training students and for pursuing quality research in two broad areas of food and health, both with significant societal impact. Notable scientific contributions from the department in the recent past include i) screening of 200,000 newborns for inborn errors of metabolism, collaborating with 20 hospitals across the Delhi state, and generating the first-ever epidemiological and genetic data for over 45 common and rare genetic disorders in the country- a good example of translational research and technology for the masses; ii) discovery of putative causal genes for a few brain disorders; iii) spearheading research on transgenic mustard for hybrid seed production, approved by the Genetic Engineering Approval Committee (GEAC) - a first such translational product from any

university in India; and iii) development of non-transgenic hybrids of mustard with improved oil quality which has already reached the farmer's field.

The two-year post-graduate (M.Sc.) program and the M.Phil./Ph.D. program offered by the Department are based on this strong foundation of research. The department enjoys the unique strength of having teaching faculty with research specialization using a range of model systems such as Drosophila, Arabidopsis, Yeast, Dictyostelium, and human induced pluripotent stem cells.

Major Activities and Achievements

Research work from Prof. A. K. Pradhan's group led to the development of CMS-based and GM-based productive hybrids, several pure lines with improved quality and white rust resistance and identification of some promising combiners for heterosis breeding, and sequencing of brassica genome. The lab



has sequenced the genome of seven 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. Research highlights from Prof. Thelma lab include i) providing the first ever exome-wide mutation spectrum in known genes for Mendelian forms of Parkinson's disease; ii) demonstration of hypomorphic effect of a deep intronic variant in CENPJ in Seckel syndrome; iii) providing genetic evidence for cumulative contribution of genes of minor effect in schizophrenia; and iv) design and development of novel inhibitory molecules for two candidate proteins for rheumatoid arthritis.

Prof. M.V Rajam's work has led to the identification and characterization of several novel genes involved in viral and fungal pathogenesis in tomato; and metamorphosis of insect pests of tomato, brinjal and cauliflower, and using RNAi-mediated silencing of these genes 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. He was invited by the Ministry of Education, United Arab Emirates to be part of their Academic Team to host the 18th International Junior Science Olympiad at Dubai in December 2021. He contributed to develop the academic tasks (theory and experiments) for the competing students from approximately 80 countries. An improved transgenic line of Bt cotton was transferred to Rallis India Limited- Seeds division, Bengaluru under 'License Agreement for Transfer for an Improved Bt Technology' between the developers (Profs. Deepak Pental and P K Burma, University of Delhi), BCIL (Technology Facilitator) and Recipient (Rallis India Ltd.).

Research findings from Prof. Surajit Sarkar's group has demonstrated the novel insights about the pathogenesis of human neurodegenerative disorders and discovered several novel drug targets to restrict disease development.

Prof. 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.

Prof. 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. Aruna Devi Naorem's group is working towards understanding the role of PPIases - Parvulin, Wee family kinases etc. during starvation-induced development in *D. discoideum*; PinA was identified as a parvulin homolog of *S. cerevisiae* Ess1 and is also important in *D. discoideum* growth and development.

Dr. Kaustuv Datta's group has identified novel GTPase in the mitochondrial ribosomes which potentially respond to changes in ATP/ADP ratio and regulate cellular ability to perform respiratory functions.

Honours/Distinctions

Prof. Pradeep Kumar Burma

Selected as member, Task force on SERB-IRHPA National Biosafety Level 3 facilities (BSL/ABSL 3).

Serving as Vice-president of the Indian Society of Cell Biology.

Awarded a Special Appreciation Award for Teachers in Service on the 99th Foundation Day, University of Delhi.

Prof. Tapasya Srivastava

Elected as member National Academy of Medical Sciences.

Awarded SERB-Power Grant Award in 2022.

Prof. Surajit Sarkar

Selected as Life member: Indian Society of Cell Biology.

Selected as Life member: Indian Society of Translational Research.



Publications

Research Articles

Rashmi Verma and Jagreet Kaur, (2021). Expression of barley oxalate oxidase confers resistance against *Sclerotinia sclerotiorum* in transgenic *Brassica juncea* cv Varuna, *Transgenic Research*, 30, 143-154.

R Tiwari, J Kaur, NC Bisht, (2021). Extra-large G-proteins influence plant response to *Sclerotinia sclerotiorum* by regulating glucosinolate metabolism in *Brassica juncea*, *Molecular plant pathology*, 22, 1180-1194.

Burma PK, (2021). An alternative approach to how biology practicals are currently conducted in the Indian education system, *GPG Journal of Science Education*, 2, 2, 08-11.

Soni KK, Mehrotra AK and Burma PK, (2021). Engineering the AEG1 promoter from cotton to develop male sterile lines, *Plant Cell Reports*, 40, 1789–1792 doi.org/10.1007/s00299-021-02704-6.

Bhushan A, Kumari R, Srivastava T. (2021). Scouting for common genes in the heterogeneous hypoxic tumor microenvironment and their validation in glioblastoma, *3 Biotech*. 10, 11, 451.

Tandon S, Sarkar S, (2021). The S6k/4E-BP mediated growth promoting sub-pathway of insulin signalling cascade is essential to restrict pathogenesis of poly(Q) disorders in *Drosophila*. *Life Sciences*, 275.

Verma Y, Mehra U, Pandey, DK, Kar J, Perez-Martinez X, Jana SS, Datta K, (2021). MRX8, the conserved mitochondrial YihA GTPase family member is required for de novo Cox1 synthesis at suboptimal temperatures in *Saccharomyces cerevisiae*, *Molecular Biology of the Cell*, 32, 21, ar16.

Kaur J, Datta K, (2021). IRC3 regulates mitochondrial translation in response to metabolic cues in *Saccharomyces cerevisiae*, *Molecular Cell Biology*, 41, 11, e0023321.

Pandey, N, Chongtham J, Pal S, Ali A, Lalwani S, Jain D, Mohan A and Srivastava T, (2022). When “No-Smoking” is not enough: Hypoxia and nicotine acetylcholine receptor signaling may drive lung adenocarcinoma progression in never-smokers. *BBA- Molecular Cell Research (In print)*.

Shukla P, Deswal D, Pandit M, Latha N, Mahajan D, Srivastava Trula AK. (2022). Exploration of novel TOSMIC tetheredimidazo[1,2-a] pyridine compounds for the development of potential antifungal drug candidate, *Drug Dev Res*. NA, 83 (Epub ahead of print. doi: 10.1002/ddr.21883. PMID: 34569640). 525–543.

Aggarwal P, Thapliyal D, Sarkar S. (2022). The past and present of *Drosophila* models of traumatic brain injury. *Journal of Neuroscience Methods*, 371, 109533.

Tandon S, Aggarwal P, Sarkar S. (2021). Applications of electron microscopy in *Drosophila* neurobiology research. *Indian J Biochem Biophys*. 58, 334-343.

Nisha, Sarkar S. (2021). Downregulation of glob1 suppresses pathogenesis of human neuronal tauopathies in *Drosophila* by regulating tau phosphorylation and ROS generation. *Neurochemistry International*, 146, 105040, 1.

Books/Chapter in Books

Aggarwal P., Sarkar S. (2021). A rapid assessment of neuromuscular performance of *Drosophila* larvae. In: Experiments with *Drosophila* for Biology Courses. Eds. Lakhotia S. C., Ranganath H. A., Indian Academy of Science Publication. ISBN 978-81-13-950664-2-1.

Gurpreet Kaur, Sivasubramanian Rajarammohan, Sarwan Kumar Rashmi Verma, Gurdeep Kaur, Jasmeet Kaur, Shivani Gajbhiye, Shikha Dixit, and Jagreet Kaur, (2022). Genomic Designing for Biotic Stress Resistance in Rape and Mustard, Springer, Cham, "Print ISBN 978-3-030-91034-1", 215-264.



Pant P, Hamsa, S and Kaur J, (2022). Advances in Breeding Strategies for Improving Stress Tolerance in Brassicas, Springer, Cham, Print ISBN978-3-030-91506-3, 439-469.

Srivastava T (Author: Unit 1). (2022). Gene organization, Replication and Repair, *IGNOU, School of Sciences*, MPDD/IGNOU/P.O.0.5K/March 2022, 978-93-5568-268-0.

Srivastava T (Author: Unit 3). (2022). Gene organization, Replication and Repair, *IGNOU, School of Sciences*, MPDD/IGNOU/P.O.0.5K/March 2022, 978-93-5568-268-0.

Pragati, Tandon S, Aqsa, Aggarwal P, Sarkar S. (2022). *Drosophila melanogaster: An immaculate model for glial research. Book: In: The Biology of Glial Cells: Recent Advances.* Springer Nature, 978-981-16-8312-1, 679–718.

Research Projects

DBT, 2018-2021, Excavating the role of Neurofibrillary Tangles (NFTs) in pathogenesis of human Tauopathies in *Drosophila* disease models. Rs. 57,60,000/-

SERB, 2019-2022, Combinatorial effect of Myc and Glycogen Synthase Kinase 3 (GSK3) modulation in pathogenesis of human neurodegenerative tauopathies in *Drosophila* disease models. Rs. 33,63,000/-

The Royal Society UK, 2020-2023, "Establishing an effective surveillance system for tracking white rust pathogen and precision breeding for resistant oilseed mustard varieties in India", GBP 31805

MHRD-STAR, 2020-2023, "Optimizing the deployment of Host Mediated Pathogen Gene Silencing (HIGS) for enhancing resistance against *Sclerotinia sclerotiorum*, causal agent for stem rot in plants STARS/APR2019/BS/607/FS 15.05.2020", Rs. 49,97,000/-

FRP-IoE (University of Delhi). 2021-2022, Minor project, Rs. 3,00,000/-

SERB, 05.04.21 - 04.04.24, Investigating the mechanism of Irc3p function to regulate carbon source dependent mitochondrial translation in *Saccharomyces cerevisiae*, Rs. 52,83,080/-

SERB, 2021-2024, "Unraveling the genetic components underlying resistance against phytopathogenic fungus *Alternaria brassicae*", Rs. 41,24,376/-

Seminars/Conferences

Dr. Simran Bhullar, Ramalingaswami Re-entry Fellow; Department of Genetics, UDSC, Department of Genetics, UDSC (Alumni Lecture Series). Paramecium: The model organism with nuclear dimorphism, 2022, January 19.

DR. C. V. Srikanth, Associate Prof., Regional Centre of Biotechnology, Department of Genetics, UDSC (Alumni Lecture Series). Learning to tame gut inflammation the "SUMO way", 2022, February 28.

Seminar/Conference Presentations

Prof. Tapasya Srivastava
Invited lecture on "Epigenetic Signature of active methylation in the hypoxic niche of gliomas" in the Session on "Recent advances in cancer diagnosis and precision medicine" in ACBICON 2021.

Resource person for One-week national cum training programme on Purification and Characterization of Active Compounds from Natural Products organized by MDU Rohtak under UGC-STRIDE 2021, August 13-16.

Delivered lecture on 'Epigenetic Signature of Active Methylation in the Hypoxic Niche of Gliomas' at the Annual meeting of Association of Clinical Biochemists of India 2021 on 2021, December 13.

Delivered a lecture in Biofootprints on 'A short story from my lab' in a Webinar: Drug Discovery: Roots and Wings on 2021, December 17.



Delivered lecture in the 2nd Annual conference entitled “Emerging trends in translational oncology”, scheduled to be held on 2022, February 18-19, at National Cancer Institute (AIIMS), Jhajjar.

Nisha, Surajit Sarkar (2021) Downregulation of glob1 attenuates pathogenesis of human neuronal tauopathies in *Drosophila* by regulating tau phosphorylation and ROS generation (Abstract no. P44). Indian *Drosophila* research meeting (InDRC 2021), IISER, Kolkata, India. 2021, December 13-17.

Shweta Tandon, Surajit Sarkar (2021) The growth promoting branch of insulin signalling pathway, mediated by S6k/4E-BP, plays the major role in mitigating the poly(Q) pathogenesis in *Drosophila* models (Abstract no. P83). Indian *Drosophila* research meeting (InDRC 2021), IISER, Kolkata, India. 2021, December 13-17.

Perna Aggarwal, Surajit Sarkar (2021) The role of *Drosophila* Toll-mediated immune pathway in mitigating tauopathy (Abstract no. P85).

Indian *Drosophila* research meeting (InDRC 2021), IISER, Kolkata, India. 2021, December 13-17.

Extension and Outreach Activities

Prof. Tapasya served as Expert member from India in 4th Meeting of the BRICS Working Group on Biotechnology and Biomedicine including Human Health and Neuroscience in May 2021.

Faculty Strength:

Professors: 4

Associate Professor: 1

Assistant Professor: 1

3 (Superannuated faculty members)

Number of Ph.D. Degrees Awarded: 09

Number of M.Phil. Degrees Awarded: 01

Department of Microbiology

Brief History

The Department of Microbiology was established in 1984 and initially functioned in the University's main campus at the Patel Chest Institute, where classes for the M.Sc. Microbiology program were held. The Department shifted to South Campus in 1986 and became affiliated to the Faculty of Interdisciplinary and Applied Sciences upon its establishment in 1988. The same year the University also started a B.Sc. (Honors) program in Microbiology.

The Microbiology Department started the Ph.D. program in 1988. Since then, more than one hundred students have carried out their doctoral research work in the Department and have been awarded Ph.D. degrees. Several of

them now hold leadership positions in academia and industry.

Extramural grants from DBT, DST, ICMR, CSIR, UGC, ICAR and DRDO, as well as intramural grants from the University of Delhi, have strengthened the Department's research. The Department has also been funded under the DST-FIST, UGC-SAP and DU-DST PURSE programs. Every faculty member has a well-equipped laboratory with the necessary instruments to carry out research. The departmental Central Instrumentation Facility houses several pieces of high-end equipment. Over the years, more than six hundred research papers have been authored by Department faculty members in peer-reviewed journals of international repute.

The students of the Microbiology Department are a vibrant group, enthusiastically organizing



and participating in various activities of the Department such as Annual Sports Day, Monthly Journal Club, Monthly Work presentations, and Field Trips. Twenty-one students are currently registered in the Ph.D. program, and twenty-one students are presently enrolled in the Master's program.

Major Activities and Achievements

Prof. Swati Saha's laboratory investigates events linked to Leishmania DNA biology. Over the past year, her laboratory has worked towards unravelling the role of several proteins believed to play an epigenetic role in gene regulation. These proteins have been found to impact various aspects of transcription and DNA repair.

Dr. Rajeev Kaul Laboratory conducted a study that identified three polymorphic sites each in BoLA DRB3 and BoLA genes of cattle which correlated with evidence of recent infection with foot and mouth disease (FMD), indicating their role in determining the susceptibility of vaccinated animals to FMDV infection. The occurrence of infection in vaccinated animals is well-known in some diseases and is termed a breakthrough infection. The Major Histocompatibility Complex (MHC) of bovines i.e., Bovine Leukocyte Antigen (BoLA), is important for antigen presentation. The BoLA DRB3 allele, which codes for the beta chain in Class II antigen, has been extensively studied where we investigated the polymorphism in BoLA DRB3 and BoLA gene sequences of the host and their relation with breakthrough FMDV infection in vaccinated animals.

Dr. Vijay. K. Verma laboratory works in the area of exploring the molecular mechanism of persistent infection which underlie asymptomatic host-pathogen coexistence in the human pathogen *Helicobacter pylori*. They are focusing on the different toxins present in *H. pylori* and their role in pathogenesis. Recently, the lab has discovered the presence of many toxin-antitoxin pairs in *H. pylori* genome.

Prof. Y. P. Khasa laboratory's work is focused on recombinant product development in *E. coli*

and *Pichia pastoris* expression hosts. The laboratory is developing cost-effective SUMO protease technology to reduce the production cost of heterologous proteins in soluble form. They are also developing and optimizing bioprocesses for single-chain antibody production against hTNF- α .

Prof. Rani Gupta's lab has successfully developed *Pichia* as an expression platform for effective utilization of a dual promoter system using lipase as a model protein. The Cell surface expression of γ -CGTase from *Evansella caseinilytica* on *E. coli* was established where a successful enzymatic conversion of starch to γ -cyclodextrin was demonstrated.

Honours/Distinctions

Prof. Swati Saha was elected Fellow of the National Academy of Sciences, India (NASI) in 2021 for pioneering work involving Molecular and Cell Biology of *Leishmania* parasites.

Prof. Rajeev Kaul was elected to the fellowship of the 'Indian Virological Society' with effect from 01-Jan-2022. He was also conferred with the 'IVS Fellow Award' during the annual conference of the society VIROCON-2021 held at AIIMS Hyderabad on 26th March 2022.

Publications

Research Articles

Yash Chaudhary, Purnati Khuntia, Rajeev Kaul, (2022). Susceptibility to foot and mouth disease virus infection in vaccinated cattle, and host BoLA A and BoLA DRB3 genes polymorphism. *VirusDisease*, 33, 65-75.

Gupta, N, Behera DK, Prajapati VK, Verma VK, (2022). A comprehensive approach to discover Toxin-Antitoxin systems from human pathogen *Helicobacter pylori*: A poison and its antidote encapsulated in the genome. *Life Sciences*, 1, 288, 120149.

Kashyap, A., & Gupta, R. (2021). Disrupting putative N-glycosylation site N17 in lipase Lip11 of *Yarrowia lipolytica* yielded a catalytically efficient and thermostable variant accompanying conformational changes.



Enzyme and Microbial Technology, 151, 109922. 3.

Saini M., Kashyap, A., Bindal, S., Saini K., & Gupta, R, (2021). Bacterial Gamma-Glutamyl Transpeptidase, an Emerging Biocatalyst: Insights into Structure–Function Relationship and Its Biotechnological Applications. *Frontiers in microbiology*, 12, 441.

Saini M., Kalra, S., Kaushik, J. K., & Gupta, R. (2021). Functional characterization of the extra sequence in the large subunit of γ -glutamyl transpeptidase from *Bacillus atrophaeus*: Role in autoprocesing and activity, *Process Biochemistry*, 106, 199-212.

Adivitiya, Babbal, Mohanty S, and Khasa YP, (2021). Nitrogen supplementation ameliorates product quality and quantity during high cell density bioreactor studies of *Pichia pastoris*: A case study with proteolysis prone streptokinase. *International Journal of Biological Macromolecules*, 180, 760-770, 3

Derek Gatherer, Daniel P. Depledge, Carol A. Hartley, Moriah L. Szpara, Paola K. Vaz, Mária Benkő, Curtis R. Brandt, Neil A. Bryant, Akbar Dastjerdi, Andor Doszpoly, Ursula A. Gompelsoki Inoue, Keith W. Jarosinski, Rajeev Kaul, Vincent Lacoste, Peter Norberg, Francesco C. Oraggi, Richard J. Orton, Philip E. Pellett, D. Scott Schmid, Stephen J. Spatz, James P. Stewart, Jakob Trimpert, Thomas B. Waltzek, Andrew J. Davison, (2021). ICTV Virus Taxonomy Profile: *Herpesviridae* 2021, *Journal of General Virology*, 102, 001673. doi: 10.1099/jgv.0.001673.

Books/Chapter in Books

Khasa YP and Mohanty S, (2021). Growth Physiology and Kinetics, *Singapore Pte Ltd. 2021*, Springer Nature, ISBN 978-981-16-0723-3, 137 -179

Research Projects

DST-Science and Engineering Research Board, 3 Years/2022-2025, Center of Antibody Engineering: Center for Immuno-Diagnostics/Therapeutics Veneering technologies (CIVET), 4.74 crores

Department of Biotechnology, 3 Years/2022-2025, Specific single domain antibodies (sdAbs) against antimicrobial resistant Mastitis pathogens for clinical therapeutic use in dairy animals, 1.51 Crores

Indian Council of Medical Research, 3 Years/2021-2024, Unravelling the Mystery of Bacterial Persistent Infection: Genome-wide Identification and characterization of Toxin-Antitoxin systems of *Helicobacter pylori*, 47 Lakhs

Seminar/Conference Presentations

Swati Saha

Towards unravelling regulatory epigenetic mechanisms in *Leishmania donovani*. Invited lecture given at the International Conference on ‘Epigenetics and Regulation of Gene Expression in Kinetoplastid Protozoa’ organized online at University of Glasgow (2021, June 29-30).

Investigating epigenetic regulatory mechanisms in *Leishmania donovani*. Invited lecture given at the BC International Centenary Conference: a celebration of excellence in research and teaching, Indian Institute of Science, Bangalore, India (2021, December 10-12).

Rajeev Kaul (2022). Delivered invited talks in lecture series organized by GADVASU Ludhiana on topics ‘Next generation of vaccines’ and ‘Scientific writing and Research Ethics’ on 2022, January 13-14.

Vijay K. Verma

Participated in “Young Investigators Meeting-2021” (YIM-2021) organised by India BioScience, India and funded by Department of Biotechnology (DBT), Govt. of India (2021, March 17-19).

Participated in EMBO-EMBL Symposium: “Seeing is Believing - Imaging the Molecular Processes of Life” organized by European Molecular Biology Organization (EMBO) (2021, October 05-08). (Online mode).



Yogender P. Khasa (2022) “Recombinant Therapeutics Expression in E. coli: Challenges and Remedies” in UGC-STRIDE workshop on “Microbial Metabolites: Biotechnological Advances” organized by Department of Microbiology, MD University, Rohtak on 16th February, 2022.

Extension and Outreach Activities

The Department conducted several workshops for college students. In these workshops, students received hands-on training in basic molecular biology techniques, animal cell culture techniques, fermentation technology, and the use of HPLC. Under these workshops, a total of 70 students received direct hands-on training.

Faculty Strength:

Professors: 3

Assistant Professors: 2

Number of Ph.D. Degrees Awarded: 2

Other Significant Information

The Department received funding to establish the BioNEST program from BIRAC DBT, Govt. of India to support juvenile technologies and to provide infrastructure to budding entrepreneurs and scientists.

Department of Plant Molecular Biology

Brief History

The Department of Plant Molecular Biology was established in 1988 under the Faculty of Interdisciplinary and Applied Sciences. The Department was enriched by the merger of the Unit for Plant Cell and Molecular Biology in 1988 (originally established by the DST) and the award of COSIST grant by the UGC (1990-1995). The Department has been recognized for Special Assistance (DRS Phase I & Phase II) by the UGC (2002-2012) to strengthen research/teaching in the area of Functional Genomics.

The research, at the Department, has been supported by major grants in the form of “Centre for Plant Molecular Biology” and

“Genome Initiatives on Sequencing, Gene Discovery and Function” by DBT, in addition to other competitive grants from DST, UGC, European Commission and the Rockefeller Foundation. The faculty is involved in multi-institutional as well as international collaborative projects, including the International Rice Genome Sequencing Project

(IRGSP), International Tomato Genome Sequencing Project and *International Wheat Genome Sequencing Consortium* (IWGSC). The research has yielded more than 800 publications, and a few patents have been filed.



Major Activities and Achievements

Prof. Anil Grover's lab focuses on heat shock proteins or HSPs in plants that are critical in mounting plant resistance against heat stress. Importantly, the cellular function(s) of most HSPs remains to be established. His group demonstrated that heat shock factor HsfA6a plays a major role in the transcriptional regulation of the Hsp101 gene in rice plants. It is further shown that Hsp70, Cl-sHsps and CII-sHsp, and ubiquitin proteins coordinate with HsfA6a in mediating the Hsp101 transcription process in rice.

Prof. DasGupta's Lab's focus is on Plant Virus interactions. His group has developed transgenic rice plants showing resistance against Indian isolates of Rice tungro bacilliform virus (RTBV) and Rice tungro spherical virus (RTSV), using RNAi technology. They have also found new and interesting gene expression control elements embedded in the promoter of an Indian isolate of RTBV, which were further found to control heterologous gene expression.

Prof. Sanjay Kapoor's lab is focused on the identification and functional characterization of regulators of reproductive development in plants. Through their work on a seed-specific MADS-box transcriptional regulator, OsMADS29, the group is trying to understand the interplay of regulatory mechanisms that play roles during developmental transitions. They have recently developed a genetic technology that significantly reduces chalkiness in rice grains and have filed a patent. They also reported functional delineation of the MADS29 promoter that contains a universal negative element besides two other positive elements that drive its expression in seeds. The group is involved in developing cell-line-based biofactories for starch production using cellular agriculture.

Prof. Arun Sharma's research shows that SIGLYIII2 over-expressing transgenic tomato plants outperform the SIGLYI4+SIGLYIII2 over-expressing counterparts under abiotic stresses.

Prof. Girdhar Pandey's lab's recent focus has been on interrogating the role of calcineurin B-like protein (CBL) -interacting protein kinase9 (CIPK9) and voltage-dependent anion channel3

(VDAC3) in oxidative stress tolerance in plants and that of the other calcium sensor calmodulin (EcCaM), in regulating abiotic stress tolerance from the orphan crop, finger millet.

Prof. Surekha Katiyar Agarwal's lab has generated transgenic rice lines with modified expression of two members: OsTET2 and OsTET5. Stress tolerance assays revealed that both genes are responsible for defining plants response to abiotic (salt, drought) and biotic (fungal pathogen) stresses.

Dr. Kamal Kumar has been working on ascochyta blight (AB) resistance in chickpeas by applying the QTL-seq technique. His lab would focus on the PEAPOD complex of the guar plant in detail to generate novel mutants with increased guar-gum, a natural polymer of high-commercial significance.

Dr. Amit Kumar has initiated work on the involvement of epigenetics in abiotic stress and plant reproduction.

Honours/Distinctions

Prof. Har Swarup Memorial Medal (2021) to Prof. Paramjit Khurana by the Indian National Science Academy (INSA) for the year 2021.

Publications

Research Articles

Boora, N., Verma, V., Khurana, R., Gawande, G., Bhimrajka, S., Chaprana, K., ... Kapoor, S. (2021). Determination of Tripartite Interaction between Two Monomers of a MADS-box Transcription Factor and a Calcium Sensor Protein by BiFC-FRET-FLIM Assay. *Journal of Visualized Experiments*, (178), 1–18. <https://doi.org/10.3791/62791>

Giri, J., Parida, S.K., Raghuvanshi, S. & Tyagi, A.K. (2021). Emerging molecular strategies for improving rice drought tolerance. *Current Genomics*, 1, 22, 16-25. 3

Khurana, R., Bhimrajka, S., Sivakrishna Rao, G., Verma, V., Boora, N., Gawande, G., ... Kapoor, S. (2022). Characterization of Transcription Regulatory Domains of OsMADS29: Identification of Proximal Auxin-Responsive Domains and a Strong Distal Negative Element.



Frontiers in Plant Science, 13(April), 1–17.
<https://doi.org/10.3389/fpls.2022.850956>

Kumar G. & DasGupta, I. (2021 a). The titers of rice tungro bacilliform virus dictate the expression levels of genes related to cell wall dynamics in rice plants affected by tungro disease. *Archives of Virology*, 166, 1325-1336 DOI: 10.1007/s00705-021-05006-0. 2

Kumar G. & DasGupta, I. (2021 b). Variability, Functions and Interactions of Plant Virus Movement Proteins: What Do We Know So Far?, *Microorganisms*, 9, 695 DOI:10.3390/microorganisms9040695. 8

Pandey, B.K., Verma, L., Prusty, A., Singh A.P., Bennett, M.J., Tyagi A. K., Giri, J. & Mehra, P. (2021). OsJAZ11 regulates phosphate starvation response in rice. *Planta*, 1, 254, (18). <https://doi.org/10.1007/s00425-021-03657-6>, 2

Singh G, Sarkar, N.K. & Grover, A. (2021). Tango between ethylene and HSFA2 settles heat tolerance. *Trends in plant Sciences*, 26, 429-432. 0

Singh G., Sarkar, N.K. & Grover, A. (2021). Hsp70, sHsps and ubiquitin proteins modulate HsfA6a-mediated Hsp101 transcript expression in rice (*Oryza sativa* L.). *Physiologia Plantarum*, 173, 2055-2067, 4

Tiwari, L.D., Kumar R., Sharma V., Sahu, A.K., Sahu, B. Ithani, S.C., Grover, A. (2021). Stress and development phenotyping of Hsp101 and diverse other Hsp mutants of *Arabidopsis thaliana*. *Journal Plant Biochemistry Biotechnology*, 30, 889–905, 3

Verma, A., Prakash, G., Ranjan, R., Tyagi, A.K. & Agarwal, P. (2021). Silencing of an ubiquitin ligase increases grain width and weight in indica rice. *Frontiers in Genetics (Plant Genomics)*. NA, 11, 600378. 3

Chanderkant, C., Sharma N. & Khurana, P. (2022). Genome-wide identification of Aux/IAA and ARF gene families in bread wheat (*Triticum aestivum* L.). *Protoplasma*, (doi : 10.1007/s00709-022-01773-y). 0

Chanderkant, C., Sharma N. & Khurana, P. (2022). Transcriptome profiling of somatic embryogenesis in wheat (*Triticum aestivum* L.) influenced by auxin, calcium and brassinosteroid. *Plant Growth Regulation*, (doi: 10.1007/s10725-022-00883-0). 0

Gupta, K., Rishishwar, R., Khan, Z.A. & DasGupta, I. (2022). Agrobacterium-mediated co-inoculation of okra plants with cloned okra enation leaf curl virus DNA and bhendi yellow vein mosaic beta-satellite DNA furthers Koch's postulates for enation leaf curl disease. *Journal of Virological Methods*, 300, 114413 DOI: 10.1016/j.jviromet.2021.114413, 0

Gupta, K., Rishishwar, R. & DasGupta, I. (2022). The interplay of plant hormonal pathways and geminiviral proteins: partners in disease development. *Virus Genes*, 58, 1-14 DOI: doi.org/10.1007/s11262-021-01881-6. 0

Gupta, K., Rishishwar, R., Khan, Z.A. and DasGupta, I. (2022). Agrobacterium-mediated co-inoculation of okra plants with cloned okra enation leaf curl virus DNA and bhendi yellow vein mosaic beta-satellite DNA furthers Koch's postulates for enation leaf curl disease. *Journal of Virological Methods*, 300, 114413 DOI: 10.1016/j.jviromet.2021.114413, 0

Jain, M., Bansal, J., Mohan Singh RajKumar M.S., Sharma N., Khurana, J.P., Khurana, P. (2022). Draft genome sequence of Indian mulberry (*Morus indica*) provides a resource for functional and translational genomics. *Genomics*, 3, 114, 110346. (doi: 10.1016/j.ygeno.2022.110346). 0

Jain, P., Khurana, P. & Khurana, J.P. (2022). A rapid and efficient protocol for genotype-independent, Agrobacterium-mediated transformation of indica and japonica rice using mature seed-derived embryogenic calli. *Plant Cell Tissue and Organ Culture*, (doi:10.1007/s11240-022-02331-3). 0

Khan, Z.A., Kumar R. & DasGupta, I. (2022). CRISPR Cas-mediated resistance against viruses in plants. *International Journal of*



Molecular Sciences, 23, 2303 DOI:
doi.org/10.3390/ijms23042303. 3

Patil, B.L. & DasGupta, I. (2022). Characterization of the functional domains of nuclear shuttle protein (NSP) of Indian cassava mosaic virus using green fluorescent protein as reporter. *Virus Genes*, DOI:
doi.org/10.1007/s11262-022-01909-5. 0

Meena, S., Deb, S., Samtani, H., & Khurana, P. (2022). Elucidating the functional role of heat stress transcription factor A6b (TaHsfA6b) in linking heat stress response and the unfolded protein response in wheat. *Plant Molecular Biology*, 6, 108, 621-634 (doi: 10.1007/s11103-022-01252-1). 0

Samtani, H., Unni, G. & Khurana P. (2022). Heat sensing mechanisms in lower organisms. *Indian Journal of Microbiology*, 62, 175–186, 0
Samtani, H., Sharma A. & Khurana P. (2022). Overexpression of HVA1 enhances drought and heat stress tolerance in *Triticum aestivum* doubled haploid plants. *Cells*, 5, 11, 912. (doi: 10.3390/cells11050912). 0

Sharma P., Mishra, S., Burman N., Chatterjee M., Singh S., Pradhan AK., Khurana P. & Khurana, J.P. (2022). Characterization of Cry2 genes (CRY2a and CRY2b) of *B. napus* and comparative analysis of BnCRY1 and BnCRY2a in regulating seedling photomorphogenesis. *Plant Molecular Biology*, 190, (doi.org/10.1007/s11103-022-01293-6). 0

Singh K.N., Rawat S., Kumar K., Katiyar Agarwal S., Goel S., Jagannath A. & Agarwal M. (2022). Identification of significant marker-trait associations for Fusarium wilt resistance in a genetically diverse core collection of safflower using AFLP and SSR markers. *J. Applied Genetics*, <https://doi.org/10.1007/s13353-022-00694-z>). 0

Sharma E., Borah, P., Kaur, A., Bhatnagar, A., Mohapatra, T., Kapoor, S., & Khurana, J. P. (2021). A comprehensive transcriptome analysis of contrasting rice cultivars highlights the role of auxin and ABA responsive genes in heat stress response. *Genomics*, 113(3), 1247–

1261.
<https://doi.org/10.1016/j.ygeno.2021.03.007>

Sharma N. & Khurana, P. (2022).). Genome-wide identification, characterisation and expression analysis of the BRI1 gene family in *Triticum aestivum*. *Plant Biotechnology Reports*, 190, (doi.org/10.1007/s11816-022-00762-0). 0

Tyagi, V., Parihar, V., Singh D., Kapoor, S., & Kapoor, M. (2021). The DEAD-box RNA helicase eIF4A1 interacts with the SWI2/SNF2-related chromatin remodelling ATPase DDM1 in the moss *Physcomitrella*. *Biochimica et Biophysica Acta (BBA) - Proteins and Proteomics*, 1869(3), 140592.
<https://doi.org/10.1016/j.bbapap.2020.140592>

Tyagi, A.K. & Sopory, S.K, (2021). Jitendra Paul Khurana (1954-2021). *Curr. Sci.* 11, 121, 1501-1502, 0

Books/Chapter in Books

Bhardwaj A. R, Pandey, R., Agarwal M. & Katiyar-Agarwal S. (2021). Northern blotting technique for detection and expression analysis of mRNAs and small RNAs. In: Jin H. and Kaloshian I. (Eds.) *RNA Abundance Analysis: Methods and Protocols*, Second edition, *Methods in Molecular Biology*, New York, Springer Science+Business Media New York. 1064-3745 (print); 1940-6029 (web). 155-183

Kumar G., Zarreen, F. & DasGupta, I. (2021). Rice Tungro Disease (Secoviridae, Caulimoviridae), In: *Encyclopedia of Virology*, Fourth Edition,, Amsterdam, Academic Press,, ISBN: 978-0-12-814516-6. 0

Kumar G. & DasGupta, I, (2021). Transgenic approaches to develop virus resistance in rice, In: *Genome Engineering for Crop Improvement*, Ed. Sarmah, B. K. and Borah, B. K., Switzerland,, Springer Nature, https://doi.org/10.1007/978-3-030-63372-1_2. pp33-62,



Kumar G., Kumari, K, & DasGupta, I. (2022). RTBV-based VIGS vector for functional genomics in rice: Methodology, Advances, Challenges and Future Implications, In: Plant Gene Silencing: Methods and Protocols, Methods in Molecular Biology, vol. 2408, Mysore, K. S. and Muthappa, S. (Ed.). NA, Springer Science, ISBN 978-1-0716-1874-5, ISBM 978-1-0716-1875-2 (eBook), pp. 117-131. doi: 10.1007/978-1-0716-1875-2_8

Patents Filed/Granted

Sanjay Kapoor and Vibha Verma (2021) PCT/IN2022/050848: Recombinant Constructs, Method for Improving Grain Quality, And Implementations Thereof. (*This patent is about a genetic technique that reduces chalkiness in rice*).

Research Projects

2020-2023- DST-SERB-funded. PI-Sanjay Kapoor. Development of a Cell-line based Starch Bio-factory System by Manipulating Components of Starch Regulatory and Biosynthetic Machinery in Tobacco BY-2 Cells.

Seminar/Conference Presentations

Prof. A.K. Tyagi
Webinar, 35 years of Biotechnology Growth in India - An exciting journey, DBT, New Delhi, 2021.

Virtual Refresher Course in Botany (Sponsored by science academies), Telangana Univ., Nizamabad, 2021.

Virtual 42nd Annual Meeting of PTCA (India) and International Symposium on Advances in Plant Biotechnology and Genome Editing, ICAR-IIAB, Ranchi, 2021 (chaired a session).

Platinum Jubilee National Seminar, ICAR-NRRI, Cuttack, 2021 (key-note speech).

USBT Distinguished Lecture Series, IP University, New Delhi, 2021.

XV Agricultural Science Congress AS and BHU, Varanasi, 2021 (session chair).
91st Annual Session and Symposium SI, Prayagraj, 2021.

National Conference of Plant Physiology 2021, ISPP and ICAR-NIASM, Baramati, 2021 (session chair).

Prof. Sanjay Kapoor
Sanjay Kapoor*, Vibha Verma, Sanchi Bhimrajka, Gautam Gawande and Meenu Kapoor (2022) Deciphering of the Role of OsMADS29 in Early Seed Development and Its Implications an Improving Grain Quality in Rice. Invited Lecture at (Online) PAG Asia Meet at Shanghai.

Other Inter-Institutional Collaborations

We have developed a collaboration with Dr. Alok Krishna Sinha's laboratory at National Institute of Plant Genome Research, New Delhi to understand the transcriptional regulation of HSF6 transcription factor towards its role in regulation of HSP101 gene expression in rice. Our work shows that mitogen-activated protein kinases (MAPKs), specifically MPK3, MPK4, and MPK6 phosphorylate HSF6a. This work is being processed for publication.

Faculty Strength: 8

Professors: 6

Assistant Professors: 2

2 (Superannuated faculty members)

Number of Ph.D. Degrees Awarded: 4

Department of Physical Education & Sports Sciences



Major Activities

The Department conducts Ph.D. Programme. So far 99 candidates have successfully completed their Ph.D. Program Degree. At present total number of enrolled Ph.D. Scholars are 93. The DPESS also operates the following degree through different colleges/Institutes:

Master of Physical Education (M.P.Ed.)
Bachelor of Physical Education (B.P.Ed.)
Bachelor of Science in Physical Education, Health Education and Sports (Hons.)

Bachelor of Physical Education in the Field of Multidisciplinary Study (Hons.).
DPESS organizes different Certificate Programs, Workshops, Seminars, Conferences and Lectures on regular basis.

Publications

Research Articles

Shaw, D. (2019). A Study on Female and Male in Regard to Selected Gait Variables while Walking with Fast Speed, *International Journal of Physical Education, Sports and Health*, 1, 6, 109-112

Chand, C., & Shaw, D. (2021). Yoga for Improving Mental Health during Covid-19 Pandemic: A Review, *International Journal of Yoga, Physiotherapy and Physical Education*, 4, 6, 35-38

Shaw, D., & Hussain, M. (2021). Effect of Tibial Length Discrepancy on Pelvic List during Human Gait, *International Journal of Current Research and Review*, 15, 13, 149-153

Hussain, M., & Shaw, D. (2020). Understanding Quality Assessment in Research and Meta-Analysis, *Acta Scientific Medical Sciences*, 11, 4, 52-54

Shaw, D., & Hussain, M. (2020). Development of T-Scale of Chair Sit and Reach Test of Male Senior Citizens, *International Journal of Health,*

Physical Education, and Computer Science in Sports, 2, 39, 1-6

Shaw, D., & Hussain, M. (2020). Development of Six Sigma Scale (Seven-Point Grading) of Fitness Level of Female Senior Citizens, *Asian Journal of Physical Education, and Computer Science in Sports*, 1, 23, 19-22

Shaw, D., & Hussain, M. (2020). Development of T-Scale of Back Scratch Test of Male Senior Citizens, *International Journal of Health, Physical Education, and Computer Science in Sports*, 2, 39, 1-6

Shaw, D., & Hussain, M. (2020). Development of Six Sigma Scale (Seven-Point Grading) of Fitness Level of Male Senior Citizens, *Asian Journal of Physical Education, and Computer Science in Sports*, 1, 23, 29-33

Shaw, D., & Hussain, M. (2020). Effect of Femoral Length Discrepancy on Pelvic List during Human Gait, *Asian Journal of Physical Education, and Computer Science in Sports*, 1, 23, 34-37

Kaur, M., Rawat, S., & Shaw, D. (2022). Reliability of Health Assessment Questionnaire for Females Sportspersons Involved in Team Sports, *International Research Publications Journal of Life Sciences*, 3, 2, 1-8

Kaur, M., Husain, R., & Shaw, D. (2022). Reliability of Health Questionnaire for Females Involved in Individual Sports, *International Journal of Research –GRANTHAALAYAH*, 7, 10, 70-79

Husain, R., Chand, C., and Shaw D. (2022). Effect of Mindfulness and/or Yoga Practices on Selected Psychological Parameters of Sportsperson: A Meta-analysis, *International Journal of Yoga, Physiotherapy and Physical Education*, 4, 7, 71-82

Rajesh Aggarwal, J.P. Sharma (2022). "A Comparative Study of Sports Facilities Amongst Government, Government Aided And Public Schools of Delhi", *Online*



International Interdisciplinary Research Journal, 2, 12, 127-137

Rajesh Aggarwal, J.P. Sharma (2022). "An Analysis of Implementation of Health and Physical Education as a Compulsory Subject in Govt., Aided and Public Schools of Delhi", *Online International Interdisciplinary Research Journal*, 2, 12, 138-148

Dr. Sarita Tyagi, Jupender Singh Bhagi, Dr. Kuljeet Kaur, (2021). Gender Wise Comparison of Disordered Eating Attitudes in Physical Education Professionals of India: A Cross-Sectional Study, *International Journal of Research – Granthaalayah ISSN (Online): 2350-0530 June 2021 9(6), 91–97 ISSN (Print): 2394-3629, 6, 9, 91–97*

Dr. Sarita Tyagi & Alok Sharma (Nov-Dec 2021). Nutritional Assessments of Boys Belonging to Different Socio-Economic Groups, *International Interdisciplinary Research Journal, {Bi-Monthly}, ISSN 2249-9598, 6, 11, 103-110*

Books/Chapter in Books

Shaw, D, (2020). Parable Global English (Hindi Dictionary of Physical Education and Sports Sciences, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-18-9

Shaw, D. (2021). Competitive & Objective Physical Education & Sports Sciences: Book for all Competitive Exams UGC-NET, DSSSB, TGT&PGT, NTA-NET, KVS, NVS, HTET, SLET, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-97-4

Shaw, D. and Kaushik, S. (2021). Lesson Planning Teaching Methods and Class Management in Physical Education and Sports Sciences, *New Delhi*, Khel Sahitya Kendra, 978-81-7524-022-9

Shaw, D. (2021). Athletic Care and Rehabilitation (A Sports Medicine Perspective). *New Delhi*, Sports Publication Publisher and Distributor, 978-81-951044-9-9

Shaw, D. (2022). Mastering M.C.Q. in Physical Education & Sports Sciences for Competitive

Examinations. *New Delhi*, Sports Publication Publisher and Distributor, 978-93-93781-37-6

Shaw, D. and Kumar G. (2022). Kinesiology of Exercises with Apparatus, *New Delhi*, Sports Publication Publisher and Distributor, 978-93-93393-23-4

Shaw, D. and Mathur, N. (2022). Kinesiology of Freehand Exercises. *New Delhi*, Sports Publication Publisher and Distributor, 978-93-93781-42-0

Shaw, D. (2022). Biomechanics and Kinesiology of Human Motion, *New Delhi*, Khel Sahitya Kendra, 978-81-7524-015-6

Shaw, D., & Hussain, M. (2021). Need of Fitness Test and Norms for Senior Citizens. In Fitness Reference of Senior Citizens, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 1-9

Shaw, D., & Hussain, M. (2021). Administration of Senior Citizen Fitness Test. In Fitness Reference of Senior Citizens, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 10-18

Shaw, D., & Hussain, M. (2021). Other Test for Senior Citizens. In Fitness Reference of Senior Citizens, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 19-27

Shaw, D., & Hussain, M. (2021). Significance of Age Groups for Fitness Measurement. In Fitness Reference of Senior Citizens, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 28-57

Shaw, D., & Hussain, M. (2021). Methods. In Fitness Reference of Senior Citizens, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 58-83

Shaw, D., & Hussain, M. (2021). Six Sigma Normative Fitness Reference for Male Senior Citizens. In Fitness Reference of Senior Citizens, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 84-116

Shaw, D., & Hussain, M. (2021). Six Sigma Normative Fitness Reference for Female Senior Citizens. In Fitness Reference of Senior



Citizens, *New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 117-142

Shaw, D., & Hussain, M. (2021). Hull Scale Normative Fitness Reference for Male Senior Citizens. In *Fitness Reference of Senior Citizens, New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 143-171

Shaw, D., & Hussain, M. (2021). Hull Scale Normative Fitness Reference for Female Senior Citizens. In *Fitness Reference of Senior Citizens, New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 172-207

Shaw, D., & Hussain, M. (2021). T-Scale Normative Fitness Reference for Male Senior Citizens. In *Fitness Reference of Senior Citizens, New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 208-285

Shaw, D., & Hussain, M. (2021). Hull Scale Normative Fitness Reference for Female Senior Citizens. In *Fitness Reference of Senior Citizens, New Delhi*, Khel Sahitya Kendra, 978-93-90461-82-0, 287-364

Seminars/Conferences organized by the Department

Prof. Dhananjay Shaw, Head, Department of Physical Education and Sports Sciences (DPESS), University of Delhi, Collaboration between Bhaskaracharya College of Applied Sciences; Department of Physical Education and Sports Sciences (DPESS) organized Online Short-Term Certificate Course on Fitness Management, 2021, September 12. and Kinanthropometry Workshop, 2022, March 23.

Seminar/Conference Presentations

Bibliometric Analysis of Randomized Controlled Trials of Yoga during Covid-Pandemic at Cukurova 7th International Scientific Researches Conference, Adana, Turkey from 2021, September 7-8.

Title: "Biomechanics of Fitness" on 25th July 2021 in Online Short-Term Certificate Course on Fitness Management organized by Bhaskaracharya College of Applied Sciences in association with Department of Physical

Education and Sports Sciences (DPESS), University of Delhi.

Title: "Measurement of Body Composition" on 16th August 2021 in Online Short-Term Certificate Course on Fitness Management organized by Bhaskaracharya College of Applied Sciences in association with Department of Physical Education and Sports Sciences (DPESS), University of Delhi.

Title: "Different Types of Exercises for Fitness" on 28th August 2021 in Online Short-Term Certificate Course on Fitness Management organized by Bhaskaracharya College of Applied Sciences in association with Department of Physical Education and Sports Sciences (DPESS), University of Delhi.

Title: "Fitness Testing" on 4th September 2021 in Online Short-Term Certificate Course on Fitness Management organized by Bhaskaracharya College of Applied Sciences in association with Department of Physical Education and Sports Sciences (DPESS), University of Delhi.

International Seminar on the Topic: The Role of Genetics and Other Sports Sciences in Improving Fitness and Sports Performance from 24th to 25th September, 2021 organized by PGDAV College, University of Delhi in Collaboration with Physical Education Foundation of India (PEFI).

Topic of Conference= National Conference on Physical Education and Sports Sciences: A Paradigm Change From 21-22 March 2022 Organizing Secretary: Prof.J.P. Sharma (IGIPESS, D.U) Chairman: Prof. D. Shaw HOD. DPESS. (D.U.) Joint Secretaries: Prof. Sarita Tyagi & Prof. Anil K. Vanaik (IGIPESS, D.U.)

Faculty Strength: 7

Number of Ph.D. Degrees Awarded: 16



Faculty of Law

Brief History

The Faculty of Law since its inception in the year 1924 has developed a rich legacy, and distinguished itself for teaching through its case law method and socio-legal approach. As the number of students grew, the department established its first Centre as Law Centre – I in 1970 and the second as Law Centre – II in 1971. The L.L.B day classes of the Faculty were shifted to newly established Campus Law Centre in 1975. Each of the three law centres are headed by a Prof. In-Charge, in which the L.L.B. classes are conducted. L.L.M. and Ph.D. in Law are imparted at the level of the Faculty.

Seminars/Conferences

Nadi ko Jaano Abhiyan, 2022, January 25. Prof. Ranjan Kumar Tripathi, Dr. Shambhu Nath Mishra, Prof. Ravi Prakash Techchandani, Gurukul Prakash Pramukh BSM *Maha Sanchalak* Technical Expert Nodal Officer - 'Nadi ko Jaano', University of Delhi.

International Webinar on Cyber Security & Law, 2022, February 19.

Speakers: Hon'ble Mr. Justice Arun Kumar Mishra, Hon'ble Mr. Justice Ajay Bhanot (Guest of Honour) Prof. Maharaj K. Pandit Prof. (Dr.) Usha Tandon Prof. Sunaina Kanojia Dr. Ashish Srivastava Shri Deepak Talwar Dr. Ashutosh Mishra, Dr. Ap Maheshwari, Chairperson, National Human Rights Commission Former Judge, Supreme Court of India Judge, Allahabad High Court CEO, Institution of Eminence Head & Dean, Faculty of Law OSD, Institute of Cyber Security & Law (Special Invitee) Expert of Cyber Security, Monash University, Australia (Special Invitee) National Security Officer, Microsoft OSD, Delhi School of Public Policy & Governance (Special Guest) Former Director General. Bureau of Police Research and Development & CRPF.

Number of Ph.D. Degrees Awarded

37

Campus Law Centre

Brief History

In 1975, the day classes of the Faculty of Law were shifted to the then newly created Campus Law Centre (CLC). CLC has produced many eminent judges, ministers, senior lawyers, and civil servants. The list of distinguished CLC alumni includes several past and present judges of the Supreme Court of India.

Major Activities and Achievements

In spite of the unprecedented challenge posed by the Covid pandemic, the Campus Law Centre (CLC) not only kept its traditional academic rigor and vibrancy alive, but it thrived through the untiring efforts of its committed faculty members and students, through various committees, societies, and also individually, by organizing various legal conferences, expert lectures, workshops, panel discussions supplementing its student-

centric teaching, and also hosted several prestigious academic competitions and other events, which witnessed an overwhelming participation of students, academics, practitioners and other dignitaries. The faculty members of the CLC continued to produce excellent legal research, publishing their works in the reputed national and international publications. They also brought laurels to the Centre, the Department of Law, and the Faculty of Law by winning awards, delivering invited lectures/talks, and serving as the resource persons in the academic events hosted by the other academic institutions.

Honours/Distinctions

Prof. (Dr.) Usha Tandon

Was re-nominated as "Nominated Member other than Ex-Officio Member" of Delhi State Legal Services Authority from 03.03.2020 to 02.03.2022; Appointed as Chairperson,



Committee to prepare roadmap for introducing 5 year LL.B. course, University of Delhi, Jan 2022. Subject Expert, Member, Selection Committee for Assistant and Associate Prof.s, Amity University, Rajasthan, November 2021.

Nominated by Hon'ble Governor of Karnataka to Expert Scrutiny Committee to scrutinize the applications for award of Honoris Causa Doctorate for the 5th Convocation of KSLU, March 2022.

Member, Legal Education Committee, Bar Council of India, 2022.

Member, Standing Committee, Legal Education Committee, Bar Council of India, 2022.

Prof. (Dr.) Alka Chawla

Received the Award for being Listed amongst 100 powerful women in Law in India by World Intellectual Property Forum in April 2021

In Sep. 2021 she was Nominated as member of Academic Council of Guru Gobind Singh Indraprastha University

Dr. Narender Bishnoi

Became Member of the Managing Committee of the Delhi University Teacher's Welfare Fund Wide Notification no. EStab. (T)/DUTWF/2021/R-4234 dated 03rd May, 2021.

Was Appointed as Member of the Working Committee, Delhi University Teacher's Welfare Fund in the Meeting of the Managing Committee of the Delhi University Teacher's Welfare Fund held on Tuesday the 04th May, 2021. He was also appointed as Member of the Business Advisory Committee of the Academic Council, University of Delhi on 3rd June 2021. He was Nominated as Member of Interim Committee on Healthcare for Management of W.U.S. Health Centres, University of Delhi vide Notification no. GEN-II/123/2021-2022 dated 20th September 2021.

Member, Academic Council, University of Delhi (2020-2022); and Member (A.C Nominee) of Admission Committee for Law courses, Faculty of Law, University of Delhi, 2020-22.

Dr. Kshitij Kumar Singh

Received the "International Teaching Excellence Award 2021 in Intellectual Property Law" conferred on 18th December 2021 by the Executive Council of the Center for Professional Advancement (A unit of IMRF International Multidisciplinary Research Foundation Regd. with Govt. of India NITI Aayog NGO Darpan | ESTD: U/S 35 of 2001, Govt. of A.P. | HQ: Vijayawada, India).

Publications

Research Articles

Prof. (Dr.) Usha Tandon, (2022), Climate Adaptation Finance- Legal Obligations and Institutional Facilitation: Botched Commitments for Developing Nations", *South Asian Journal of Environmental Law and Policy (Colombo, Sri Lanka)*, 2022, Vol 1, 11-28.

Prof. (Dr.) Kamala Sankaran, (2021), The Fundamental Freedom to Migrate within India, *Economic and Political Weekly*, 23, LVI, 10.

Dr. Suman Yadav, (2021), Marital Rape: A Decriminalized Crime In Indian Criminal Law, *South Asian Law Review Journal*, Vol VII, 340-347.

Dr. Suman Yadav, (2021), HINDU FEMALE INTESTATE SUCCESSION:AN EPITOME OF DISCRIMINATION, *Kashmir Law Journal*, Vol IX KJLS.

Dr. Suman Yadav, (2021), PHILOSOPHICAL SANCTITY OF PRIVACY: ISSUES & CONCERNS, *The Lex-Worrier: Online Law Journal*, Issue-I, XIII, 39-48.

Dr. Rohit Moonka, (2021), Judicial Appointment in India: The Way Ahead, *KLE Law Journal*, 2021, 11-17.

Dr. Seema Singh (2021), "World food Security: Challenges & Future of India, *Delhi Journal of Contemporary Law*, Vol.IV, 2021, IV.

Dr. Seema Singh (2021), "Forensic Techniques- An Essentiality for Existing Criminal Justice System, *Kashmir Law Journal*, 2021, IX.



Dr. Seema Singh (2021), Jurisprudence of Karm Yog & Relevance of Duty in Contemporary World”, *Delhi Journal of Contemporary Law*, 2021, III.

Dr. Seema Singh (2021), “Aspects of Federalism & Emerging Challenges before Indian Constitution, *Indraprastha Technology Law Journal*, 2021, 1& 2.

Dr. Harleen Kaur, (2021), Necrophilia as a Crime in India: The Next Pitstop in the Quest for Justice., *Indian Journal of Criminology*, 2021, 49(2), 77-89.

Dr. Cholaraja Mudimannan, (2021), Crime Scene to Court Room – Fundamentals of Medical Jurisprudence and Forensic Science by Durgesh Pandey, *Indian Journal of Criminology*, 2021, Vol.10, 223-226.

Ms. Mehpara, (2021), Coparcenary Rights of Daughter and Gender Equality: Mismatch between Law and Society, *Amity International Journal of Legal and Multidisciplinary Studies*, 2021, Vol. 5, 62-71.

Dr. Silky Mukherjee, (2021), Judicial Appointment in India: The Way Ahead, *KLE Law Journal*, 2021, 11-17.

Dr. Neha Aneja, (2021), Child Marriage in India: A Socio-Legal Analysis, *National Law University Assam Law Review (NLUAR)*, 2021, V, 223 -247.

Dr. Neha Aneja, (2021), Right to Higher Education of Persons with Disabilities in India, *International Journal of Research and Analytical Reviews*, 2022, vol 9(1), 308 -318.

Dr. Neha Aneja, (2021), Human Rights of Persons with Disabilities: Contemporary Developments, *International Journal of Law Management & Humanities*, 2022, Vol V(I), 1004-1015.

Dr. Sujith Koonan, (2021), 'Polluter Pays Principle in India: Assessing Conceptual Boundaries and Implementation Issues', *RGNUL Student Research Review*, 7 (2), 7(2), 33-50.

Dr. Sujith Koonan, (2021), ‘Social Movements and Resistance to Elitism of Groundwater Law: Lessons from the Plachimada Dispute’,, 61-75.

Dr. Sujith Koonan, (2021), Manual Scavenging in India: State Apathy, Non-implementation of Laws and Resistance by the Community, *Indian Law Review*, 2021.

Dr. Suman Yadav, (2021), "A Failed Legislative Attempt to prohibit Child marriage and Dowry Culture: A Critical Analysis", *Journal of The Legal Studies*, Vol LII.

Books/Chapter in Books

Prof. Geeta Singh Dr. Seema Singh (CLC Faculty Member) & Others (all Editors), (2021), CAA-Tathya Evam Satya- Ek Baudhik Vimarsh, *Delhi*, Prabhat Publication, 978-93-90378-16-6.

Prof. Anupama Goel, Dr. Seema Singh (one of the two Editors, and a CLC Faculty Member), (2021), Reflections on Ancient Indian Jurisprudence in the Current Social &Judicial Set up, *Delhi*, Mohan Law, 978-93-87264-14-4.

Prof. Raman Mittal and Dr. Seema Singh (Editors and CLC Faculty Members), (2021), Law & Spirituality-Exploring the bonds, *Delhi*, Mohan Law, 978-81-951446-0-0.

Dr. Harleen Kaur (Sole Author), (2021), Laws and Policies on Surrogacy: Comparative insight from the India, *Singapore*, " Springer Singapore ", 978-981-16-4348-4.

Dr. Shikha Sharma (Sole Author), (2021), “Law on Comparative Advertising under Trademark regime in India”, *Delhi*, Satyam Law International, 978-93-87839-88-5.

Journal

Prof. (Dr.) Alka Chawla, (2021), Journal of Campus Law Centre, *Campus Law Centre (University of Delhi)*, 8, 147.

Research Projects

Dr. Seema Singh awarded project by the ICSSR (funding agency), 2019-2022, Agrarian Issues and Plight of Farmers, Rs. 10 Lakh/-



Project Awarded to Dr. Anita Yada, funded by Chair Ministry of Housing and Urban Poverty Alleviation (HUPA), 2022, Affordable Shelter for Street Women and Children: A case study of Delhi, Rs. 50,000/-

Project on Legal Awareness and Outreach Programme for 6 months awarded to the Legal Aid Society, Campus Law Centre (University of Delhi), During F.Y. 2021-22, Legal Awareness and Outreach Programme.

Seminars/Conferences

Several Experts (Held in collaboration with Link Legal), -Do-, International Workshop on “Laws Governing Aviation In India” organized by the Debate & Discussions Society, CLC, 2022, February 23.

Ms. Harshita Mishra, Ld. Metropolitan Magistrate & Secretary, DLSA (East)., District Legal Services Authority (East) presented a workshop on “Sexual Harassment at Workplace” organized by the Debate & Discussions Society, CLC, 2021, April 14.

Several Panelists including, Senior Advocate Vikramjit Banarjee Additional Solicitor General of India, -Do-, Panel Discussion on ‘Tracing the Spirit of Feminism’ organized by the Debate & Discussions Society, CLC, 2022, March 06.

Several Panelists including, Justice Iqbal Ahmed Ansari, Chairperson Punjab State HRC & 39th Chief Justice of Patna High Court, -Do-, Panel Discussion on ‘Liberty of Choice and Choice of Liberty – The Hijab Debate’ organized by the Debate & Discussions Society, CLC, 2022, March 20.

Various Judicial Experts, Senior Advocates and Solicitors, Academicians, Renowned Motivational Speakers, -Do-, International Conference on Law & Spirituality (ICLS). ICLS 2021, a joint initiative of Campus Law Centre, University of Delhi and Ethiccraft Club organized by the Debate & Discussions Society, CLC, 2021, August 29.

Prof. Tarunabh Khaitan, Prof. of Law, Faculty of Law, University of Oxford., Webinar on the

Supreme Court as a Constitutional Watchdog organized by the Debate & Discussions Society, CLC, 2022, February 04.

Padma Bhushan Prof. Ved P. Nanda, John Evans distinguished University Prof. & Thompson G. Marsh Prof. of University of Denver, Lecture on “Migrants & Refugees-Challenges for International Law & Policy” organized by the Debate & Discussions Society, CLC, 2021, April 06.

Mr. Rahul Bajaj, Senior Resident Fellow, Vidhi Centre for Legal Policy., Lecture on “Right to Digital Accessibility” organized by the Debate & Discussions Society, CLC, 2022, March 20.

Mr. Shoeb Alam, (Advocate-on-Record, Supreme Court of India), Lecture on “Legal aid and Public Interest Litigation – A litigator’s perspective” organized by the Debate & Discussions Society, CLC, 2022, March 20.

Mr. Amish Aggarwala, Advocate Supreme Court of India, Session on Art of Oral Advocacy organized by the Debate & Discussions Society, CLC, 2022, March 22.

Mr. R. Venkataramani, Senior Advocate, Supreme Court of India, Session on Fluidity, the Fundamental Paradigm of the Constitution organized by the Debate & Discussions Society, CLC, 2021, November 27.

Mr. Ram Madhav, Author & Member-Governing Council, India Foundation, Session on Relevance of Vivekananda for youth in modern India organized by the Debate & Discussions Society, CLC, 2022, January 12.

Mr. J. Sai Deepak, Advocate, Supreme Court of India, interactive virtual session (in collaboration with Bloomsbury) with the author of the Book “India that is Bharat-Coloniality, Civilization, Constitution” on this topic organized by the Debate & Discussions Society, CLC, 2021, August 14.

Mr. Madhavan Srivatsan, Managing Partner, Law Offices of Madhavan Srivatsan, the practical workshops called ‘SkillUp’, on



Companies Act, 2013, from practitioner's perspective organized by the Corporate and Commercial Laws Society, CLC, 2021, August 08.

Ms. Ashima Obhan, Managing Partner, Obhan & Associates, the practical workshops called 'SkillUp' on Shareholders Agreement organized by the Corporate and Commercial Laws Society, CLC, 2022, February 10.

Mr. Sanjay Kumar Ex-Counsel, JSA, Training Session on Practical approach to deal with contemporary contractual issues organized by the Corporate and Commercial Laws Society, CLC, 2021, October 17.

Mr. Gaurav Sahay, Partner, Link Legal, Training Session on Indemnity and Limitation of liabilities organized by the Corporate and Commercial Laws Society, CLC, 2021, October 30.

Ms. Khushboo Khatreja, Ex-Principal Associate, DSK Legal, Training Session on Framework on fundraising in India organized by the Corporate and Commercial Laws Society, CLC, 2021, December 19.

Ms. Akanksha Dua, Senior Associate, Obhan & Associates, Training Session on Share Capital of a Company organized by the Corporate and Commercial Laws Society, CLC, 2022, January 21.

Mr. Vinod Kumar Bhaskaran, Head of Legal Team, Arcolab, Training Session on Structuring of a Deal organized by the Corporate and Commercial Laws Society, CLC, 2022, February 27.

Mr. Janak Panicker, Regulatory Counsel, Adyen, Training Session on Directorship: Appointment and Qualifications organized by the Corporate and Commercial Laws Society, CLC, 2022, March 13.

Mr. Madhavan Srivatasan, Managing Partner, Law Offices of Madhavan Srivatasan, Seminar on Corporate Law Practice Areas organized by

the Corporate and Commercial Laws Society, CLC, 2021, April 18.

Mr. Nived Tayal, In-House Counsel, Nestle India, Seminar on Skill Building for an IN-HOUSE Role organized by the Corporate and Commercial Laws Society, CLC, 2022, February 19.

Ms. Radhika Bishwajit Dubey, Former Partner, Cyril Amarchand MangalDas, Seminar on Arbitrability of Commercial Disputes organized by the Corporate and Commercial Laws Society, CLC, 2022, March 12.

Dr. Hemang Shah (Keynote Speaker), Indian Engineering Lead (Startups and Innovation), Qualcomm Technology Licensing, India,, Webinar on SMEs- A Driver of Innovation and Economic Growth organized by the Legal Aid Society, CLC, 2021, April 26.

Prof. Subha Ghosh, Dr. Malathi Lakshmikumar, Dr. K.S. Kardam, Prof., Syracuse University School of Law, New York; Director, Lakshmikumar & Sridharan, Attorneys; Fmr. Sr. Controller of Patents and Designs, Indian Patent Office, International Webinar on "Exploring the scope of Diagnostic patents organized by the Legal Aid Society, CLC, 2021, July 10.

The Semi-Finals were judged by renowned and eminent Senior Advo-cates of the Hon'ble Supreme Court of India. The fina round was adjudicated by a 3-judge bench comprising of Hon'ble Justices of the Delhi High Court., -Do-, Chambers of Mr. Siddharth Luthra, Senior Advocate, The XVIII K.K. Luthra Memorial Moot Court, 2022 was organized by Campus Law Centre, Faculty of Law, University of Delhi. 66 teams from a variety of law institutions of repute participated, including 11 international teams (Moot Court Society, CLC), 2022, March 13.

Mr. Varun Singh Partner at SKV Law offices (Commercial), Webinar on "Emerging legal practices in advocacy" organized by the Placement Assistance Council, CLC, 2021, August 14.



Mr. Subhiksh Vasudev, Law Clerk at "White & Case, LLP France, Webinar on "International Arbitration" organized by the Placement Assistance Council, CLC, 2021, August 29.

Mr. Siddharth Marwah, Principal Associate at Khaitan & Co., Lecture Series on "The Basics of Mergers and Acquisitions in India." organized by the Placement Assistance Council, CLC, 2021, October 03.

Ms. Neha Mehta, FinTech Team Lead- ASEAN Economic Reform Programme SEA, FCDO. CEO & Founder – FemTech Partners. Webinar on "Career in Fintech Laws: Basics and Progression." organized by the Placement Assistance Council, CLC, 2021, December 22.

Several experts resource persons from a leading law firm including, Ms. Bitika Sharma Senior Partner, Singh & Singh LLP, Workshop on "Practical Aspects of IPR Laws" organized by the Placement Assistance Council, CLC, 2022, January 08.

Prof. (Dr.) Kamala Sankaran, Prof., Campus Law Centre (University of Delhi),, "Faculty voices: Constitutional Dimensions In Litigation" Lecture organized by the Placement Assistance Council, CLC, 2022, January 22.

Senior Adv. Sanjay Hegde, Senior Advocate, Supreme Court of India, Webinar on "Advocacy in Civil Rights" organized by the Placement Assistance Council, CLC, 2022, December 12.

Adv. Rajat Mathur, Advocate, and Alumnus, Faculty of Law, Lecture Series on "Guide to Commercial Courts Act, 2015" organized by the Placement Assistance Council, CLC, 2022, February 26.

Prof. (Dr.) Alka Chawla, Prof.-In-Charge, Campus Law Centre (University of Delhi),, "Faculty Voices: Copyright Law Through The Eyes Of Educator And University" Lecture organized by the Placement Assistance Council, CLC, 2022, March 15.

Mr. Ankit Rajgarhia, Principal Associate at Karanjawala and Co., Session on "How To Make

A Mark: The Art Of Building A Good CV" organized by the Placement Assistance Council, CLC, 2022, March 20.

Seminar/Conference Presentations (National/International)

Prof. (Dr.) Usha Tandon: Delivered Keynote Address on "SDGs and Empowerment of Women: Mapping Recent Developments in Law against Domestic Violence in India" at virtual "International Conference on Sustainable Development Goals and Gender Perspective" organized by Dept of Electrical Engineering, SVNIT, Surat, 2021, October 25.

Prof. (Dr.) Usha Tandon: "Guest of Honour delivered Keynote Address at the Orientation Programme of Department of Law, PIMR, Indore, 2021, October 02".

Prof. (Dr.) Alka Chawla was Speaker on "Fair Use Doctrine under Copyright Law", Intellectual Property Rights and Academic Integrity organized by Department of Promotion and Industry and Internal Trade (DPIIT)-IPR Chair, MNLU Mumbai. (2021, August 03.).

Prof. (Dr.) Alka Chawla: National IPR Policy 2016-The Road Ahead", NLUJA Lecture Series 2021 organized by DPIIT IPR Chair and IQAC Cell, NLU and Judicial Academy, Assam. (2021, September 16).

Prof. (Dr.) Kamala Sankaran was speaker at the Session on "Other Civil and Political Rights" in the National Stakeholder Consultation with Academicians in India for the Preparation of India's Report under Article 40 of the International Covenant of Civil and Political Rights, organized by Ministry of External Affairs, Government of India and National Law University, Delhi on Saturday, 2021, May 22.

Prof. (Dr.) Kamala Sankaran was a speaker at the special online session on the 70th Anniversary of the Committee on Freedom of Association, at the 19th ILERA World Congress organized by Lund University, Sweden, 2021, June 23.



Dr. Seema Singh was Invited as a Resource Person to deliver a lecture on International Women's Day on 8th March 2022 by Ministry of Finance, on the theme of Women Empowerment.

Dr. Seema Singh Invited as a Speaker to speak on "Gender Sensitization: Provisions in Constitution and Government Initiatives" on Wednesday, 12 January 2022. during the Online Workshop of PRIDE for Officers and Staff of Lok Sabha, Rajya Sabha, State Legislature Secretariats, Ministries of GOI, Indian Embassies and its family members to Create Awareness Regarding Sexual Harassment at Workplace.

Dr. Kshitij Kumar Singh: Invited to deliver an online lecture on "Abuse of Dominance through IPRs and International Best Practices addressing IP Issues" to the sixth batch of Advanced Professional Course in Competition Law and Market Regulation by the School of Competition Law and Market Regulation, Indian Institute Corporate Affairs, Ministry of Corporate Affairs, Govt. of India. (December 26, 2021).

Dr. Narender Nagarwal: "Balancing the Minorities' Rights in China and India: A Constitutional Perspective and Beyond" National Webinar conducted as Webinar Director in Campus Law Centre, Faculty of Law, University of Delhi, on 27.01.2022 and presented a paper on "Debating Constitutionalism and Balancing the Minorities." Rights in China and India".

Other Inter-Institutional Collaborations

Inter-Institutional Collaboration with Competition Commission of India under the theme 'Azadi ka Amrit Mahotsav' 4 Day CCI-CLC lecture series-cum-symposium held (under the theme of Azadi ka Amrit Mahotsav) from 8/11/2021-11/11/2021.

Placement Details

41 Students Recruited (Total strength of Final Year students at the CLC in the academic year 2020-21: 765, in academic year 2021-22: 934).

Extension and Outreach Activities

The Legal Services Clinic ('LSC') of Campus Law Centre, University of Delhi works in a close collaboration with DSLSA.

Legal Aid Society of Campus Law Centre in 2019 launched a blog called "Awaaz" to aid the society achieves its goals of making the law accessible to all persons. Covid-19 relief assistance for Delhi during the second wave of the pandemic by the Legal Aid Society, CLC (April-May 2021).

Covid-19 Legal Assistance by the Legal Aid Society, CLC, May 2021. Financial Aid to Transgender Persons- Registration Process Assistance by the Legal Aid Society, CLC (26 May 2021) Legal Literacy and Awareness Campaign as a part of Azadi ka Amrit Mahotsav by the Legal Aid Society, CLC (26/10/21).

On foot Awareness Rally in pursuance of PAN India Awareness and Outreach Programme by the Legal Aid Society, CLC (27/10/2021).

Awareness Drive Observing Vigilance Awareness Week by the Legal Aid Society, CLC (31/10/21).

Presentation of Work by the Legal Aid Society, CLC in an Event Hosted by Kings College London University of Strathclyde & University of York (2 Nov. 2021).

Mediation Work at District Magistrate (DM) office related to Senior Citizen's Act by the Legal Aid Society, CLC (16 Nov. 2021).

Computer Literacy Programme for Girls at Katyayani Balika Ashram Delhi by Legal Aid Society, CLC on 29/11/2021.

Assistance drive in collaboration with Neev Foundation for Legal Aid in filling Labour Card Form for the Construction Workers by Legal Aid Society (LAS), CLC on 11/2/22.

The LAS in association with DLSA organizes various kinds of Community Outreach programmes which are also called Legal Awareness Drives. These are majorly



conducted in the slums, jhuggi jhopris and various unorganized settlements of Delhi. The volunteers contribute minimum of 2 hours in every drive which extends to 3.5 hours depending upon the prescribed area to be covered.

Faculty Strength

Permanent: 45

Law Centre-I

Brief History

Law Centre-I was established in the year 1970 and commenced its classes for the LL.B. in the evening in the D.A.V. School building at Paharganj. Soon it was relocated to the N.P. School building at Mandir Marg. In 1994, Law Centre-I was relocated to the main campus of the Faculty of Law on Chhatra Marg. Later, the University of Delhi allocated a five-storey building to the Law Faculty in 2015—the Umang Bhawan which is in vicinity of the old premises on Chhatra Marg. Umang Bhawan is equipped with all the modern amenities like elevators, CCTV cameras, spacious and modern classrooms with multi-media facilities among others.

Major Activities and Achievements

Law Centre-I continued to capitalize on the online learning environment by conducting various national webinars, workshops, lectures, and training programs through the online mode. Law Centre-I organized the XVIth LC-I All Delhi NCR Moot Court Competition in online mode, which saw overwhelming participation of students from all major law schools in Delhi-NCR.

Law Centre-I also organized an online seminar on the 'Russia-Ukraine Conflict and the Challenges before the International Legal Order' where the chief guest was His Excellency Ambassador Prof. Adam Burakowski, Ambassador of Poland to India.

On the research front the faculty members have published research papers in Scopus indexed journals and chapters in book published by reputed publishers.

Honours/Distinctions

Dr. Meena Kumari, Assistant Prof., Law Centre -I was awarded the Best Early Career Paper in Law for paper titled “Changing Perspectives of Hindu Marriage” presented in the International Conference on A Sacred Covenant? Historic, Legal and Cultural Perspectives on the Development of Marital Law organized at online zoom platform by Northumbria University, Newcastle, United Kingdom with generosity of The Journal of Legal History (Routledge), May 20, 2021. Retrieved from <https://asacredcovenant.com/prizes/>.

Publications

Research Articles

Mallaya, Susmitha, (2022), Corporate Social Responsibility: A Tool for Human Rights Protection, *Company Law Journal*, 1, 1, 1-9.

Mallaya, Susmitha, (2022), Digital Payment Mechanism: An Emerging Tool in Financial Sector, *Chartered Secretary*, 2, 52, 79-82.

Mallaya, Susmitha, (2021), Virtual Currency Challenges and E-money Laundering: Need for an Effective Mechanism, *Chartered Secretary*, 12, 51, 120-122.

Mallaya Susmitha, (2021), Intellectual Property Rights and Competition Law: A Converging Reflection, *Chartered Secretary*, 4, 51, 55-57.

PK, Nassima & Kumari, Meena, (2021), A quest for 'substantive equality': A narrative beyond shayara bano judgment, *ILI Law Review*, Summer Issue, 263-284.



Dubey, Basuki Nath, (2021), Judicial approach in protecting women's right, Indian Journal of Socio Legal Studies, II, X, 87-91.

Kumar Ravindra, (2021), Lacunas of the RTE Act, 2009, Journal of Legal Studies, II, 8, 47-52

Bharti, Sunanda, (2020/22), Feminist Jurisprudence, Gender Bias and Strategies to Avoid Gendered Judicial Decisions - A Perspective, JUSTITA OSMANIA UNIVERSITY LAW JOURNAL, 4 (1 & 2), 1-10.

Books/Chapter in Books

Mallaya, Susmitha, ((2022)), Women in Labour Market: Gender Perspective. In SivaKumar Lisa Etl (Eds) Gender Justice: A South Asian Perspective, New Delhi, Thomson Reuters, 9789391340292, 58-68.

Dubey, Basuki Nath, (2021), Justifying decency in oB.Sc.enity and indecent representation of women. In Tripathi Suresh Mani & Tripathi Sashikant (ed). Criminal law handbook on new dimensions of crime against women and child, New Delhi, ABS Books Publications, 9391002544, 96-107.

Goswami, Shivani & Mishra, Archana, ((2021)), Family law II, New Delhi, Central Law Publications, 9789390735433, 1-261.

Journal

Prof. Sunanda Bharti, (2020-2021), Journal of Law Teachers of India (JOLT-India), Law Centre-I, Faculty of Law, University of Delhi, 10, 1-223

Seminars/Conferences

Dr. Satendra Singh Prof., University College of Medical Sciences, and Guru Teg Bahadur Hospital, New Delhi, Law and Disability - Traversing the maze of empowerment and disempowerment, 2022, March 03.

Prof. (Dr.) B.T. Kaul, Advocate, Delhi High Court and Supreme Court; Former Chairperson, Delhi Judicial Academy, Criminal Justice Administration in India - Issues, Challenges, and Way Forward, 2022, March 18.

Maj. Gen. Yash Mor, Retd. Major General, Sena Medal, Armed Forces - Role Models for Secularism, 2022, January 15.

Prof. Adam Burakowski, The Ambassador Extraordinary and Plenipotentiary of the Republic of Poland to India; Prof. Manoj Sinha, Director, Indian Law Institute, Delhi; Prof. VG Hegde, Chairperson, Centre for International Legal Studies, JNU; Prof. Srinivas Burra, Associate Dean, Faculty of Legal Studies, South Asian University; Prof. Sanoj Rajan, Prof. of International Law and Human Rights, Zhejiang Gongshang University, Hangzhou, China , Russia-Ukraine Conflict and Challenges before International Legal Order, 2022, March 10.

Chhavi Garg Examiner of Patents and Designs; Hemant Khosla, Deputy Registrar, Copyright; Nitya Tyagi, Examiner of Patents and Designs, IPR Awareness Programme under National Intellectual Property Awareness Mission, 2022, January 03.

Tushar Behl, Associate, Dispute Resolution at L&L Partners, Webinar on Introduction to Moot - Mastering the Art of Oral Advocacy, 2021, December 25.

Prof. (Dr.) SC Raina, Former Dean, Faculty of Law, University of Delhi, Probation - The Law and Practice in India, 2022, March 11.

Seminar/Conference Presentations (National/International)

Verma, Awekta: Presented a paper titled, "Concept of Fair Trial in Criminal Justice Administration in Ancient India: Lessons for The Present and Way Forward" in the national seminar on the theme Vishwa Guru Bharat: Exploring the Glorious Past, Promising Present and the Future Roadmap organized at University of Delhi, 2022, March 23.

Verma, Awekta: Presented a paper titled "Law and Disaster Management- A critical understanding' in the Fifth World Congress on Disaster Management (WCDM), 2021 organized by Disaster Management Initiatives and Convergence Society (DMICS), Hyderabad in collaboration with NDMA, NIDM & IIT Delhi



during 24-27th November, 2021 at Indian Institute of Technology Delhi (IIT-D) 2021, November 26.

Verma, Awekta: Resource person in an online course of 5 days through Cisco WebEx on the topic Forensic Science & Forensic Medicine - An aid to investigation and prosecution, for Dy. SP, Addl SP and equivalent officers of States/UTs at CAPT Bhopal, Madhya Pradesh, 2021, June 09.

Mallaya, Susmitha, chaired a Seminar Presentation Session (Online) to the participants of 01st online 2-Week Refresher Course in Gender Studies (Interdisciplinary) organized by the UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi, 2021, September 29.

Dass Poonam: Resource person, delivered a lecture on "Cyber Security and Law - An Overview", in series of online Workshop on Cyber Security, jointly organized by Shaheed Sukhdev College of Business Studies and ICSL. Delhi University, from, 2021, December 8-16.

Kumari, Meena: Presented a paper titled "Changing Perspectives of Hindu Marriage" in the International Conference on A Sacred Covenant? Historic, Legal and Cultural Perspectives on the Development of Marital Law organized at online zoom platform by Northumbria University, Newcastle, United Kingdom with generosity of The Journal of Legal History (Routledge), 2021, May 20.

Verma, Awekta: Resource person in an online course of 3 days through Cisco WebEx on the topic Prevention, Investigation and Rehabilitation of Human Trafficking for Dy. SP, Addl SP and equivalent officers of States/UTs at CAPT Bhopal, Madhya Pradesh, 2021, June 28-29.

Verma, Awekta: Resource person for delivering online lecture on CISCO Webex platform for the M.A. (Criminal Law & Forensic Science) and one year Advanced Diploma in Criminal Law & Forensic Science at DDE, NALSAR, Hyderabad, Andhra Pradesh, December, 2021.

Bharti, Sunanda: Resource person for Workshop on Internationalisation of Curriculum organised by the University of Delhi, under EU-Erasmus + Funded RISHII International Project, in collaboration with the University of Deusto, Spain and Tuning Academy, 2021, July 3.

Bharti, Sunanda: Resource person for the Capsule Style Intensive Training Programme for Capacity Building of Judges from Bhutan in 'Gender Justice', organised by National Law School, Jodhpur, 2021, May 19-21.

Bharti Sunanda: Was invited as a speaker in the Webinar Series on mediation, on the topic 'ODR. & Mediation as Profession' by Hidayatullah National Law University, Raipur, 2021, December 11.

Bharti Sunanda: Was invited as a Resource person by Centre for Intellectual Property Rights, Vivekananda School of Law and Legal Studies (VIPS) for the 2nd VIPS IPR National Virtual Workshop on Trademarks Law and Contemporary Issues to deliver a presentation on Registration and TM issues, 2021, November 28.

Bharti Sunanda: Was invited to speak on 'Unequal Pay: Gender Discrimination at News - Media Workplace' by Manav Rachna International Institute of Research and Studies (MRIIRS), 2021, October 11.

Faculty Strength

50



Law Centre II

Brief History

Law Centre-II made a humble beginning in the year 1971 at the premises of ARSD College, Dhaula Kuan to offer full-time LL.B. program. It has a glorious past of 50 years. The LL.B. classes were conducted in the evening and the alumni of Law Centre-II included top bureaucrats, police officers, military officers, teachers from different departments, chartered accountants, doctors, engineers, and other professionals. The Centre had the privilege of being headed by the top law scholars of India, such as Prof. Upendra Baxi, a well-known jurist and former Vice-Chancellor of University of Delhi; Prof. Tahir Mahmood, who subsequently became Chairperson, Minority Commission, Prof. A.K. Koul, who was elevated as Vice-Chancellor, National Law University, Jodhpur and National Law University, Ranchi, Prof. Gurdip Singh who became Vice-Chancellor, National Law University, Lucknow, Prof. Poonam Saxena, who is presently Vice-Chancellor, National Law University, Jodhpur and Prof. B.T. Kaul, who is presently Chairperson, Delhi Judicial Academy

Major Activities and Achievements

Law Centre-II has attained new heights under the able and dynamic leadership of Prof. Mahavir Singh Kalon that has added to the illustrious history of Law Centre II as the premiere institution known for its qualitative teaching, research and other co-curricular and extra-curricular activities. Commemorating its Golden Jubilee in 2021, Law Centre II inaugurated its Golden Jubilee Celebrations in September 2021. The Centre resolved for year-long celebrations and conducted several seminars and programmes under the same. One such enlightening programme was "Law and Ethics: A Spiritual Connect" where Mr. Siva Kumar Rajgopal, Advocate, Singapore; Mr. Shubha Vilas, Author & Speaker; Ms Vasanthi Pillai, Magistrate, Department of Justice, South Africa and Mr. Brian Bloch, Ombudsman, Department of Interior, South America gave illuminating insights into the relation and interface of law and spirituality. The magnanimous annual 'Justified' Moot was successfully organized in virtual mode with

tremendous efforts from teachers and students alike.

Publications

Research Articles

Dr. Akash Anand, (2022), PRECAUTIONARY PRINCIPLE: COVID AND REOPENING, *DELHI JOURNAL OF CONTEMPORARY LAW*, IV, 218-230.

Dr. Anjay Kumar (2022), Decoding the Ordinance Making Power through the Prism of Constitutionalism and Constitutional Morality, *CPJ LAW JOURNAL*, XII, 92-101.

Dr. Irwin L Hnamte, (2021), Mizo Marriage, Divorce and Inheritance Laws: Socio and Legal Implications for Women, *Army Institute of Law Journal*, XIV, 134-145.

Dr. Amrendra Kumar (2022), Climate Adaptation Finance-Legal Obligation and Institutional Facilitation: Botched Commitments for Developing Nations, *South Asian Journal of Environmental Law and Policy*, I, I, 11-28.

Prof. (Dr.) Anupam Jha, (2021), Remembering Iraqi High Tribunal at the Dawn of New Biden Administration in the USA, *Kansas Journal of Law and Public Policy*, 3, XXX, 454-480.

Prof. (Dr.) Anupam Jha, (2021), Reports on International Organizations and Bodies: United Nations General Assembly (UNGA), *Yearbook of International Environmental Law*, 1, XXXI, 340-345.

Dr. Ashish Kumar (2021), Objections to Mediation: A Perusal of the Processual Limitations, *Delhi Journal of Contemporary Law*, IV, 185-196.

Dr. Naresh Mahipal, (2021), A Legal Study on Adjournment Proceedings under Section 309 of Cr. P. C., *International Journal of Legal Research and Studies*, IV, VI, 73-78.



Dr. Parikshet Sirohi, (2022), Right to Food in India, *Delhi Journal of Contemporary Law*, IV, 111-131.

Dr. Naresh Mahipal, (2022), Decoding Provisions of Maintenance under Indian Laws, *International Journal of Legal Research and Studies*, I, VII, 52-58.

Sumiti Ahuja, (2022), Residual Doubt Theory: A Nascent Addition in Indian Capital Punishment Jurisprudence, *Delhi Journal of Contemporary Law*, IV, 231-241.

Dr. Ashwini Siwal, (2022), Intellectual Property and GMOs as a Frontier Technology: Case for a Disabling Regime from Bauman's Perspective., *Delhi Journal of Contemporary Law*, IV, 140-149.

Dr. Kailash Kumar Kurmi, (2022), Research Paper of Euthanasia with Special Reference to Common Cause V. UNO AIR 2018, *International Journal of Legal Research and Studies*, VII, 13-21.

Dr. Ashutosh Kumar Srivastava (2021), NEVER LET ME GO: An Analysis on Legal and Scientific Obligation in Human Cloning, -*International Journal of Research and Analytical Reviews (IJRAR)*, -International Journal of Research and Analytical Reviews, VIII, 133-139.

Dr. Nitesh Saraswat, (2021), Challenges in recognition of Forest Rights in Southern Rajasthan, *Pragyaan Law Journal*, 11, 18-22.

Dr. Namita Vashishtha, (Jan 2022), Motherhood Matters: Overview of Global and National Legal Framework on Maternity Benefit Laws, *Emerging Researcher: Research for All*, 34-42.

Books/Chapter in Books

Dr. Ashish Kumar (2021), Methods of (Alternative) Dispute Resolution Mechanism in Ancient India: Some Reflections from Kautilya's Arthashastra, *New Delhi*, Mohan Law House, 978-9387264144, 99-110.

Prof. (Dr.) Anupam Jha, (2022), Acts of International Terrorism: Need of Incorporation into Rome Statute, *Leiden (Netherlands)*, BRILL/NIJHOFF, 978-900-444-7455, 119-139.

Prof. (Dr.) Kiran Gupta, (2021), Imparting Principles of Responsible Citizenship and Promoting Rule of Law through Continuing Legal Education, *New Delhi*, Thomson Reuters, Legal (A division of Thomson Reuters South Asia Pvt. Ltd.), 978-93-90673-00-1, 71-84.

Dr. Parikshet Sirohi, (2022), Decline of the Central Information Commission, *New Delhi*, Thomson Reuters, Legal (A division of Thomson Reuters South Asia Pvt. Ltd.), 978-93-92630-23-1, 184-203.

Dr. Parikshet Sirohi, (2021), A Comparative Study of the Right to Food in Bhutan and India, *New Delhi*, Acumen Publishers, Utrecht, Netherlands, 978-90-830242-6-4, 158-201.

Sumiti Ahuja, (2021), The Entanglement Chronicle of Electronic Evidence: A Topsy-Turvy Journey, *New Delhi*, Thomson Reuters, 978-93-90529-48-3, 103-114.

Dr. Irwin L. Hnamte, (2021), Traditional Knowledge of Indigenous People of Northeast India for Economic Growth: Issues and Challenges, *New Delhi*, Bharti Publications, 978-93-90818-12-9, 51-63.

Dr. Amrendra Kumar (2021), International Regulation of Traditional Cultural Expressions: Recent Development and Criticism under Intellectual Property Law, *New Delhi*, Satyam Law Books Publications, 978-93-91345-11-2, 235-248.

Dr. Ashwini Siwal, (2021), SOCIAL MEDIA PLATFORM REGULATION IN INDIA A SPECIAL REFERENCE TO THE INFORMATION TECHNOLOGY (INTERMEDIARY GUIDELINES AND DIGITAL MEDIA ETHICS CODE) RULES, 2021, *Germany*, Nomos, 978-3-8487-8557-5, 215-231.

Dr. Namita Vashishtha, (2021), Safeguarding the Right to Health of Prisoners: State



Obligations under International Law, *New Delhi*, Thomson Reuters, 978-93-91340-65-0, 99-113.

Journal

Prof. (Dr.) Vageshwari Deswal, (2021), *Delhi Journal of Contemporary Law, Law Centre-II, University of Delhi*, 4, 1-271.

Seminars/Conferences

Prof. A K Pandey, Justice V N Sinha, Jatin Kalon, Prof. RMNLU Lucknow, Judge Patna High Court, Research Scholar Fol DU, National Seminar on Bail Not Jail, Different Dimensions Associated with Law of Bail, 2021, August 21.

Prof. P. C. Joshi, Justice Ramasubramaniam, Justice Mohammed Mushtaque, V C DU Judge Supreme Court of India Judge High Court of Kerala, Golden Jubilee Celebration of Law Centre II, Inaugural Session., 2021, September 18.

Siva Kumar Rajagopal, Shubha Vilas, Vasanthi Pillai, Brian Bloch, Siva Kumar Rajagopal, Shubha Vilas, Vasanthi Pillai, Brian Bloch, Law and Ethics a Spiritual Connect, 2021, October 30.

Mr. Barun Mitra, Jasbir Singh Bajaj, Secretary GOI IAS, Panel Discussion on "Civil Services as an excellent Career option for Law Students", 2021, October 26.

T K NAGARATHNA, Sri D S Raj Ganesh, Dr. K V Prabhu, Prof. Mahavir Singh Kalon, Sri Chinnaraja G Naidu, Dr. Parikshet Sirohi, Dr. Aswini Siwal, Registrar PPV and FRA Legal Advisor PPV Chairperson PPV PIC Law Centre II Deputy Legislative Council Ministry of Law and Justice. Assistant Prof. Law Centre II. Assistant Prof. Law Centre II, Seminar on Legal Aspects Mentioned in PPV and FR Act 2001, 2021, January 14.

Amit Tagore, Shome Kapoor, Associate Prof. Kalindi College Men's Right Activist, Marital Rape Decoding Consent within Marriage, 2022, February 03.

Prof. Nishtha Jaiswal, Prof. Manoj Sinha, Prof. Usha Tandon, V C HPNLU Shimla Director ILL Dean FoL DU, Orientation Programme, Law Centre II, 2021-2022 Batch, 2022, February 10.

Mr. Siddharth Marwah, Principal Associate Khaitan and Associates, Webinar Inside Insights on Corporate Law, 2022, February 19.

Prof. T R Subramanian, Dean School of Legal Studies CNR University, WTO and Developing countries, 2022, March 02.

Monica Arora Mr. Pramod Tiwari, Advocate Supreme Court of India. Assistant Prof. Law Centre II, Discussion on Uniform Civil Code, 2022, March 05.

Seminar/Conference Presentations (National/International)

Prof. (Dr.) Anupam Jha delivered talk as a Resource Person in UGC Refresher Course on Human Rights Jurisprudence in India at HRDC (University of Rajasthan) on 2021, September 08.

Prof. (Dr.) Anupam Jha delivered talk as a Resource Person in UGC Refresher Course in Law at HRDC (Ranchi University) on 2021, September 09.

Prof. (Dr.) Kiran Gupta, delivered talk as a Resource Person on the topic "Right to Education of the Persons with Disability" at Sikkim Judicial Academy on 2021, August 14.

Prof. (Dr.) Kiran Gupta, delivered talk as a Resource Person on the topic "Offences Relating to Marriage and Cruelty by Husband and Relatives of Husband" in Regional Consultation on Review of Criminal Law: Improvement in Status of Women" at NLU and Judicial Academy, Assam, on 2022, February 16.

Dr. Parikshet Sirohi presented Research Paper titled "Forensic Psychiatry and Forensic Psychology: An Overview" in the International Seminar on "Credibility of Evidence by Forensic Practices in Crime Scene Investigation" organized by the Kerala Law Academy Law



College in association with the Center for Advanced Legal Studies & Research (CAL SAR) at Thiruvananthapuram on, 2022, January 08.

Dr. Parikshet Sirohi: Presented Research Paper titled "Forensic Psychiatry and Forensic Psychology: An Overview" in the National Conference on "Modern Trends in Technology and its Impact on Crime and Justice System" organized by VIT School of Law, VIT Chennai on, 2022, March 12.

Sumiti Ahuja: Presented a paper titled "Challenges Related to Admissibility and Evidentiary Value of Forensic Evidence in Criminal Justice System" in the International e-Conference on Nuances of Criminal Investigation and Dynamics of Forensic Evidence, organized by Center for Excellence in Criminal Law, ICFAI Law School, ICFAI Foundation for Higher Education, Hyderabad from, 2021, August 20-22. (*Won an award for the same).

Sumiti Ahuja: Presented a paper titled "Ethico-Legal Issues in Forensic Expert Testimony: An Overview" in the International Conference (Tenth Virtual) on Credibility of Evidence by Forensic Practices in Crime Investigation, organized by Kerala Law Academy Law College in association with Center for Advanced Legal Studies and Research (CAL SAR), on 2022, January 08.

Dr. Ashwini Siwal invited as a Resource Person in Workshop on Understanding Regulatory Mechanisms for Protecting Reasonable Expectations of Privacy: Mapping Consent and Fairness in Australian and Indian Data Protection Law", organized jointly by Melbourne Law School, Melbourne University & Jindal Global Law School on 2021, July 29.

Dr. Ashwini Siwal invited as Resource Person in Professional Certificate Training Course on "Innovation Entrepreneurship and IPR", organized by DPIIT IPR Chair, WBNUJS & National Institute of Technical Teachers' Training and Research (NITTTR) on 2022, February 14.

Extension and Outreach Activities

Practical Webinar session on Yoga for Everyone on International Yoga Day Celebration June 21 2021 by NSS Law Centre II, Legal Aid Society Law Centre II students actively volunteered in various outreach activities like visiting multiple slums on multiple occasions and creating legal awareness under the aegis of DSLSA.

Faculty Strength

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Faculty of Management Studies

Management Studies

Brief History

Faculty of Management Studies (FMS, Delhi) is one of the oldest B-Schools in the country, established in 1954 under the aegis of the University of Delhi. The institute was started as a part of the Delhi School of Economics and has grown to be a full-fledged management institute. Being a part of the University system, it has been contributing to the industry, businesses, government, and social sectors at par with leading business schools. Having started with an evening Masters Programme in Management in 1954, it commenced its MBA (Full-Time) Programme in 1967. FMS went on to establish Shanti Prasad Jain Advanced Management Research Centre at the University of Delhi-South Campus to promote research and training of managers from India and abroad in the year 1982. 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. All its programs viz. MBA (Full-Time), MBA Executive, MBA Executive (Health Care Administration), and Ph.D. in Management are well accepted by the industry.

Major Activities and Achievements

The Faculty of Management Studies, University of Delhi (FMS) is one of the top management schools in India, enjoying a reputation for excellence both nationally and internationally. FMS attracts the brightest students from all parts of the country, from diverse academic backgrounds ranging from engineering to liberal arts. The student's admission policy of FMS positively promotes diversity in terms of gender and socio-economic background. All MBA students are given the opportunity to intern with the most prominent companies in India. FMS is renowned both for the quality of its teaching and for its business and practitioner-oriented research. FMS enjoys an enviable student placement record. Apart from the full-time MBA program, FMS conducts the MBA Executive program, the MBA Health Care

Administration program, and the Doctoral program. Alumni from FMS occupy top positions in all walks of life including business, academics, administration, policy making, and public life, in both the national and international spheres.

Honors/Distinctions

Prof. Sunita Singh SenGupta, was nominated National Fellow by the Indian Institute of Advanced Studies in 2022.

Prof. Monica Singhanian: Accountancy Fellowship (Worshipful Company of Chartered Accountants in England and Wales), Association of Commonwealth Universities Virtual Research Fellowship, United Kingdom, 2021-22.

Publications

Research Articles

Suneja, V & Bagai, S., (2021), Examining the impact of COVID-19 pandemic on online education: Reviewing the Indian schooling system based on the perspective of major Indian E- tutoring platforms, *Vision: The Journal of Business Perspective*.

Bharti, M., Suneja, V., & Bharti, M, (2022), Mindfulness as an antidote to conspicuous consumption: The mediating roles of self-esteem, self- concept clarity and normative influence, *Personality and Individual Differences*, 184.

Bharti, M., Suneja, V., & Chauhan, A. K., (2021), The role of socio- psychological and personality antecedents in luxury consumption: a meta-analytic review, *International Marketing Review*, 2, 39.

Sunita Singh SenGupta, (2022), Aesthetics in Management: Creating Beautiful Organizations, *International Journal on Spirituality and Organizational Leadership*, 1, 10, 44-64.



Sunita Singh SenGupta, (2021), Integrating Stewardship and Spirituality into Financial Decision Making: A Concept, *International Journal on Spirituality and Organizational Leadership*, 1, 9, 43-60.

Sunita Singh SenGupta, (2021), Level 5 Integral Leadership: Transcendence of Mind., *The IUP Journal of Organizational Behaviour*, 2, 20, 7-24.

Sunita Singh SenGupta, & Tahasin Mondal, (2021), Significance of Vedic education system in present time., *International Journal of Sanskrit Research*, 1, 7, 371-376.

Sunita Singh SenGupta, (2021), Yog and Mantra for a Healthy Life: Insights from Hindu and Buddhist Tantra System, *International Journal on Vedic Foundations of Management*, 2, 9, 58-74.

Sunita Singh SenGupta, & Rohit Shah, (2021), Predictors of Power Within for Creating Collective Pride and Harmony at Workplace, *International Journal on Spirituality and Organizational Leadership*, 2, 9, 76-97.

Acharyya, M., Agarwala, T., (2022), Relationship between CSR motivations and corporate social performance: a study in the power industry in India, *Employee Relations: The international Journal*, 44, 3, 663- 685, 6.

Aggarwal, P., Agarwala, T., (2022), Relationship of green human resource management with environmental performance: mediating effect of green organizational culture, *Benchmarking: An International Journal*, ahead-of-print.
<https://doi.org/10.1108/BIJ-08-2021-0474>.

Trivedi, V., Agarwala, T., (2021), Standing in my way nine to five: Investigating bullying behaviours prevalent among IT professionals in India, *Prabandhan: Indian Journal of Management*, 14, 9, 8-21.

Aggarwal, P., Agarwala, T., (2021), Green Organizational Culture: An Exploration of

Dimensions, *Global Business Review*, Published Online, 31/10/2021 <https://doi.org/10.1177/09721509211049890>, 2.

Debadyuti Das Ashutosh Sarkar & Arindam Debroy, (2022), Impact of COVID-19 on changing consumer behaviour: Lessons from an emerging economy, *Int. Journal of Consumer Studies*, <https://doi.org/10.1111/ijcs.12786>, 692 - 715, 4.

Vikas Kumar Debadyuti Das & Amit Kumar Bardhan, (2022), Carbon footprint implications of demand and supply uncertainties in supply chains: A simulation study, *Int. Journal of Modelling & Simulation*, 4, 42, 680 – 705.

Rahul Kumar & Debadyuti Das (2021), A performance evaluation framework of public health distribution network for essential medicines: Lessons from select Indian States, *Int. Transactions in Operational Research*, <https://doi.org/10.1111/itor.13040>, 1-32.

Seth, N., Singhania, Monica and Siddiqui, S., (2022), Modelling Returns of Sukuk and Related Indices with system GMM: Evidence from the MENA Region, *International Journal of Islamic and Middle Eastern Finance and Management*, 4, 15, 699-716, 48.

Singhania, Monica and Saini N., (2021), Quantification of ESG Regulations: A Cross Country Benchmarking Analysis, *Vision: The Journal of Business Perspectives*, 2, 26, 163-171.

Singhania, Monica and Saini N., (2021), Institutional Framework of ESG disclosures: Comparative Analysis of Developed and Developing Countries, *Journal of Sustainable Finance & Investment*, DOI: 10.1080/20430795.2021.1964810.

AK Das AK Bardhan, X Fageda, (2022), What is driving the passenger demand on new regional air routes in India: A study using the gravity model, *Case Studies on Transport Policy*, 1, 10, 637-646, 1.



V Kumar D Das AK Bardhan, (2022), Carbon Footprint Implications of Demand and Supply Uncertainties in Supply Chains: A Simulation Study, *International Journal of Modelling and Simulation*, 4, 42, 680-705.

Vishnoi P., Bhardwaj N, Vohra A., (2022), 'Marketing at the bottom of the pyramid: Literature review and future research agenda', *International Journal of Consumer Studies*, doi.org/10.1111/ijcs.12804 (Scopus Indexed / ABDC – Category A), 1-20.

Garima Gupta, (and Sonika Nagpal), (2021), Brand Communication-in-Crisis and Brand-Specific Outcomes: Testing the Moderating Role of Brand Attitude and Product Category, *Journal of Creative Communications (ISSN: 0973-2586 (print); 0973-2594 (web))*, DOI: 10.1177/09732586211067840, DOI: 10.1177/09732586211067840, 1-17, 1.

Garima Gupta, (and Minesh K. Srivastava), (2021), Synthesis and Analysis of Factors affecting Environmentalism: A Meta-Analysis Approach, *New Horizons (ISSN: 2277-5218)*, August, 18, 42-56.

Kalsie, A., & Singh I, (2022), Analysis of Post-Merger Performance of Merged Entity: A Study of Select Financial Sector Deals, *International Journal of Accounting & Finance Review (ABCD) C*, 10, 1, 61-750.

Kalsie, A., & Singh N., (2022), Deal Size and Synergy Gains: A Case of Indian M&A", *Vikalpa: The Journal for Decision Makers (ABCD) C*

Kalsie, A., & Singh N., (2021), Drivers of Synergy Gains In Indian M& As: A System GMM Approach., *Journal Of Commerce & Accounting Research. (ABCD) C*, 1, 11, 1-16.

Kalsie, A., & Singh N., (2021), Measurement of Synergy In Merger & Acquisitions: A Panel Data Approach Using Composite Variable Principal Component Analysis), *Journal Of Corporate Accounting And Finance. (ABDC) B category.*, 33, 36-51.

Kalsie, A., & Singh N., (2021), Analysis of Synergies In Indian Corporate M&A Deals: A

Logit Regression Approach, *The Economics And Finance Letters Scopus Index*, 8, 2, 130-141.

Shrivastava S. & Singh K, (2021), "Workplace Deviance in Virtual Workspace.", *Strategic HR Review*, 3, 20, 74-77.

Nijhawan, G., Gujral, H.K. & Singh K, (2022), The Impact of Employee's Demographic Profile on their Emotional Intelligence and Organizational Citizenship Behaviour., *Webology*, No.1, 19, 3764- 3779.

Mangla, N & Singh K, (2022), Relationship between cultural intelligence and learning organization, *International Journal of Cross-Cultural Management*, 1, 22, 185-205.

Books/Chapter in Books

Emma Bell & Sunita Singh SenGupta, (Editors), (2022), Empowering Methodologies in Organizational and Social Research, *India*, Routledge India, 976-1-032-30732-9.

Gallant, M., Agarwala, T. IN O'Connor, P., White, K. (eds) Gender, Power and Higher Education in a Globalised World., (2021), Silencing Women's Voices: An Ethnographic Perspective from India and the UAE, *UK*, Palgrave Studies in Gender and Education. Palgrave Macmillan, Cham, Online ISBN978-3-030-69687-0 Print ISBN978-3-030-69686-3, 117-138.

Research Projects

ICSSR, 2020-2022, Prof. Sunita Singh SenGupta, Vedic Foundations of Indian Management, 22 Lakhs.

Humboldt-Foundation (Bonn, Germany), 01-08-2020 to 31-12-2021, Prof. Tanuja Agarwala: "Investigation into the Potential of Internationally Mobile Women Researchers" Country Dossier: India (Study of 14 countries), PI: Dr. Andrea Löther GESIS- Leibniz Institute for the Social Sciences, Germany the amount of €148,297.30 sanctioned to the PI.

Ministry of Electronics & Information Technology (MeiTY), April 2022 onwards for 30



months, Prof. Monica Singhania: eGOVMCASES: eGovernance Multimedia Case Studies on Digital India, Rs. 115 lakhs.

Indian Council of Social Science Research, 2022-2024, Prof. Amit Bardhan: A study on the implications of COVID-19 pandemic on the practice of telehealth and development of a scalable model for implementing optimal delivery of tele-healthcare., 8 lakhs.

Institution of Eminence, University of Delhi, 2021-22, Prof. Garima Gupta, Chatbot Application in Digital Learning Environment: A Quantitative Assessment of Attributes and Outcomes, Rs. 1,20,000=00.

Seminar/Conference Presentations

(National/International)

Suneja, V. 'Re-imagining the Good Life', Dean's Address, FMS Founder's Day International Seminar, FMS Forum, 2022, January 29, New Delhi.

Suneja, V. 'IT Skills and NEP', Invited Talk, COMPUTE, 14th Annual ACM Conference, 2021, November 18 – 20, New Delhi.

Suneja, V. 'Philosophical Methodologies in Management: Research and Teaching', Invited Lecture, Ramanujan College, University of Delhi, March 2021, New Delhi.

Suneja, V. 'Strategic Planning and Management', Resource Person, CPDHE, University of Delhi, September 2021.

Suneja, V. 'Reflections on NEP 2020', Online Workshop on Internationalisation of Curriculum: Profiles of Global Professionals, University of Delhi, 2022, March 12.

Suneja, V. 'Mentoring Socio-emotional Well-being of Students: Campus as a Space of Happiness', Maitrey College, University of Delhi in collaboration with Manodarpan, an initiative of the Ministry of Education, 2021, April 19.

Suneja, V. 'Motivation of Managers', Resource Person, National Training Program for Assistant Registrars and Administrative Officers, University of Delhi, 2022, March 15.

SenGupta, S. Sunita, delivered an invited online lecture on "Compassionate Leadership: Insights from Budha" on 2021, January 16, in the Virtual Conference on "Lord Budha: An Epitome of Mahakaruna" organized by the Association of Indian Philosophers International.

SenGupta, S. Sunita, participated as a Panelist on the invitation of Dr. Stephanie Doscher, Director COIL – Florida International University as panelist in the EURASIA – Higher Education Summit, Virtual Conference on, 2021, March 5.

SenGupta, S. Sunita, delivered a lecture on March 8, 2021, as an invited speaker in the Virtual National Conference on Psychology in India and its Future Prospects organized by Lalit Narayan Mithila University.

SenGupta, S. Sunita, delivered a lecture on Ancient Indian Contributions to Management Studies on March 12, 2021, in a 3 Day National Workshop on Indian Knowledge Systems and Higher Education with Reference to NEP 2020 organized by the Department of Sanskrit, South Delhi Campus, and Gandhi Bhavan during 2021, March 11-13.

SenGupta, S. Sunita, delivered a lecture on "Creating Inclusive Organizations" on March 15, 2021 in the Refresher Course in Business Studies organized by the Department of Business Management under UGC-HRDC of the University of Calcutta.

SenGupta, S. Sunita, delivered an invited online talk on "Vedic Foundations of Indian Management" in Dr. Vedavyas Memorial Lecture Series on, 2021, April 11 at 7.30 p.m.

SenGupta, S. Sunita, participated as a Panelist in the virtual Panel Discussion on "The Challenges and Promise of Teaching Public Administration" on 2021, April 15, at the 2021



Annual Conference of the American Society of Public Administration.

SenGupta, S. Sunita, presented a paper entitled, “Integrating Spirituality and Organizational Leadership in Supply Chain Management: A Case Study of AURA” On May 2, 2021, in the online POMS 31st Annual Conference on Building a Sustainable, Responsible, and Resilient Global Future during April 30- May 5, 2021.

Das.D., Session Chair in the International Conference on “Business Management and Sustainable Development Goals: Responding to the New Normal” organized by Jaipuria Institute of Management, Noida during, 2022, March 4 – 5.

Das D., Session Chair in the track Quantitative Methods and Operations Management for the 8th PAN IIM World Management Conference on “Responsible Business for Sustainable Development” held in IIM Kozhikode during, 2021, December 16 – 18.

Singhania M., Chaired a panel on ESG in IIM Bangalore Public Policy Conference, 2022, August 23-25 and presented a research paper on Quantification of ESG

Bardhan A.K., “Optimization in the presence of uncertainty” invited talk during Faculty Development Program on "Optimization: The Omnipresent" held during 2022, February 4-10, Moti Lal Nehru College (University of Delhi).

Shekhar, S. and Gupta, G. (2021), ‘Corporate Social Responsibility for Branding: What drives MSMEs?’, 2nd International Conference on the role of ‘Innovation, Entrepreneurship, and Management for Sustainable Development’, OP Jindal University, 2021, November 27-28.

Shekhar, S. and Gupta, G. (2022), ‘Funding and Brand Building: Understanding the Fluid Relationship for MSMEs’, International e-Conference on Advances in Business and Management, Department of Commerce,

Shaheed Bhagat Singh College, University of Delhi, 2022, January 20-21.

Kalsie A, A study of wealth impact on share prices in case of M&A announcements: empirical study of Indian financial sector deals” ISDSI Global conference 2021, December 27-30 IIM Nagpur.

Other Inter-Institutional Collaborations

Gupta, G., Delivered a lecture on ‘Human to Human (H2H) Marketing: Evolving Customer Experience in the New Normal’ in the Marketing Conclave, School of Business Studies, VIPS, 23rd October, 2021.

Gupta, G., Delivered the Key Note Address on ‘Research and Global Restructuring: Future Outlook, ICCRESMA 2022, 27th January, 2022.

Placement Details (Placement Details)

257 students, 100% placements

Extension and Outreach Activities

126 Companies hosted virtually on the campus

Faculty Strength

19

Number of Ph.D. Degrees Awarded

14

Other Significant Information

Suneja, V Chairperson, New Education Policy (NEP) Implementation Committee, University of Delhi.

Suneja, V Chairperson, NEP Interdisciplinary Courses Committee, University of Delhi

Suneja, V Member, Academic Council, TERI University, New Delhi

Suneja, V Member, Editorial Board, IUP Journal of Knowledge Management, ICAI, ISSN: 0972-9216

Suneja, V Head and Dean, Faculty of Management Studies (FMS), University of Delhi



Das D., Delivered an invited talk on Innovation in Operations and Supply Chain in an AICTE-sponsored Faculty Development Program on “Innovation Management” during January 21 to 25, 2022 organized by Institute of Management Studies, Banaras Hindu University.

Das D., Delivered an invited talk on Role of Supply Chain Management in Sustainable Manufacturing in an AICTE-ISTE-sponsored refresher course on “Rapid Manufacturing: The Future Sustainable Manufacturing Technology” during January 19, to 25, 2022 organized by Mechanical Engineering Department, Asansol Engineering College, W.B.

Das D., Member of National Technical Advisory Board (NTAB) on Cold Chain Logistics constituted by National Institute of Health & Family Welfare (NIHFW), New Delhi since January, 2020 for providing guidance on cold chain equipment, cold chain logistics for universal immunization program in India. Das D., External Advisory Member in the Research Advisory Committee (RAC) of a doctoral candidate in IIM Kozhikode since November, 2021.

Das D., Reviewer of project proposals for Agency for Science, Technology and Research (A*STAR) based in Singapore for the projects submitted under 3rd Singapore-Germany Academic-Industry (2+2) Collaboration in 2021.

Das D., External Expert for advising revision in syllabus of Operations and Supply Chain Management in Delhi School of Management, Delhi Technological University in 2021.

Singhania M., Member of Finance Committee of the National Institute of Animal Biotechnology (NIAB) since 2020
Singhania M., Member of the Finance Committee of the National Institute of Immunology (NII) since 2020

Bardhan A.K., Nominated as a member Scientific Advisory Committee (SAC) of ICMR-NIIRNCD, Jodhpur.
Bardhan A.K., Member, Academic Council, J K Lakshmi Pat University, Jaipur

Gupta, G., Completed 16- weeks Annual Refresher Programme in Teaching (ARPIT-2021), AICTE self-paced MOOC Course titled ‘Curriculum Pedagogy and Evaluation for Higher Education’, SWAYAM Programme, Ministry of Education, Government of India, December 2020 to April, 2021.

Kalsie, A., Selection Committee for award of National Overseas Scholarship, Ministry of Tribal Affairs Since 2017, 2018, 2019, 2020, 2021, 2022.



Faculty of Mathematical Science

Department of Computer Science

Major Activities and Achievements

The Department 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.

Research: Besides these the Department has strong research interests in diverse branches of Computer Science (Artificial Intelligence, Parallel Computing, Databases, Data Mining, Software Engineering, Computer Graphics, Networking, Web Technologies, Information Security, Algorithms and Bioinformatics) and offers a Doctor of Philosophy (Ph.D.) Programme aimed at producing quality researchers. At present the department has about 56 Ph.D. students and 7 (seven) have been awarded degrees in the year 2021-22. 20 M.Sc. research projects were undertaken, some of which are in different stages of publications.

Placements: In all 91 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.

Student Activities: The Annual Technical Fest "SANKALAN" Organized by the students of the Department of Computer Science. The festival was attended by 350 students of Computer Science from colleges all over India.

Publications

Research Articles

Rao Kagita, V., Pujari, A. K., Padmanabhan, V., & Kumar V. (2021). Inductive Conformal Recommender System. *arXiv e-prints*, arXiv-2109.

Veeramachaneni, S. D., Pujari, A. K., Padmanabhan, V., & Kumar V. (2022). A hinge-loss based codebook transfer for cross-domain recommendation with non-overlapping data. *Information Systems*, 107, 102002.

Bedi, P., & Singhal, A. (2022). Estimating cover image for universal payload region detection in stego images. *Journal of King Saud University-Computer and Information Sciences*.

Gupta, N., Jindal, V., & Bedi, P. (2022). CSE-IDS: Using cost-sensitive deep learning and ensemble algorithms to handle class imbalance in network-based intrusion detection systems. *Computers & Security*, 112, 102499.

Bedi, P. (2021). Trust and fuzzy inference based cross domain serendipitous item recommendations (TFCDIRS). *Journal of Intelligent & Fuzzy Systems*, 41(5), 5511-5523.

Bedi, P., & Gole, P. (2021). Plant disease detection using hybrid model based on convolutional autoencoder and convolutional neural network. *Artificial Intelligence in Agriculture*, 5, 90-101.

Bedi, P., Dhiman, S., Gole, P., Gupta, N., & Jindal, V. (2021). Prediction of COVID-19 trend in India and its four worst-affected states using modified SEIRD and LSTM models. *SN computer science*, 2(3), 1-24.

Gupta, N., Jindal, V., & Bedi, P. (2021). LIO-IDS: handling class imbalance using LSTM and improved one-vs-one technique in intrusion



detection system. *Computer Networks*, 192, 108076.

Singh K., Kumar R., & Biswas, B. (2022). High average-utility itemsets mining: a survey. *Applied Intelligence*, 52(4), 3901-3938.

Kumar R., & Singh K. (2022). A survey on soft computing-based high-utility itemsets mining. *Soft Computing*, 1-46.

Rajpal, S., Agarwal, M., Rajpal, A., Lakhyani, N., Saggarr, A., & Kumar N. (2020). Cov-elm classifier: an extreme learning machine-based identification of covid-19 using chest x-ray images. *Intelligent Decision Technologies*, (Preprint), 1-11.

Rajpal, S., Agarwal, M., Kumar V., Gupta, A., & Kumar N. (2021). Triphasic DeepBRCA-A Deep Learning-Based Framework for Identification of Biomarkers for Breast Cancer Stratification. *IEEE Access*, 9, 103347-103364.

Rajpal, S., Lakhyani, N., Singh A. K., Kohli, R., & Kumar N. (2021). Using handpicked features in conjunction with ResNet-50 for improved detection of COVID-19 from chest X-ray images. *Chaos, Solitons & Fractals*, 145, 110749.

Khurana, A., & Bhatnagar, V. (2022). Investigating entropy for extractive document summarization. *Expert Systems with Applications*, 187, 115820.

Research Projects

SERB, 2021-23 (2 years), Hybrid Deep Architecture for Semi-Supervised Recommender System, 27,45,110/-

UGC, 2021-23 (2 years), Latent Factor Transfer for Cross-Domain Recommendation, 10,00,000/-

IoE-University of Delhi, 2021-22 (1 year), Semi-Supervised Recommender System, 1,75,000/-

IoE-University of Delhi, 2021-22 (1 year), QR-AR based Smart Indoor Navigation with Crowd Management, 1,75,000/-

IoE-University of Delhi, 2021-22 (1 year), Efficient and Scalable Parallel Algorithms for Graph Spanners, 1,75,000/-

IoE-University of Delhi, 2021-22 (1 year), Interpretable Models for Omic-based Lung Cancer Classification, 1,75,000/-

DST, 2020-23 (3 Years), Text Analytics using Multilayer Networks, 6,60,000/-

IoE-University of Delhi, 2021-22 (1 year), A study on transformation challenges for embracing Industry 4.0 in (Manufacturing) Industries of National Capital Region (NCR), 1,50,000/-

Seminars/Conferences organized by the Department

Prof. Srivastava Associate Prof. of Mathematics at the University of California, Berkeley, "Diagonalization in Nearly Matrix Multiplication Time", 2021, December 22.

Dr. Ratnadip Adhikari, Lead Data Scientist, Leoforce India, Hyderabad, Bayesian Belief Networks – Concepts and Business Applications, 2021, November 24.

Prof. R. K. Agrawal, Prof., School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, "Intuitionistic Fuzzy c-means clustering algorithm incorporating local information for brain image segmentation", 2021, October 27.

Dr. Nitin Kumar Assistant Prof., Department of Computer Science and Engineering, National Institute of Technology, Uttarakhand, "Random Permutation Principal Component Analysis for Cancelable Biometric Recognition", 2021, September 22.

Dr. Asif Ekbal, Associate Prof., Department of Computer Science and Engineering, IIT Patna, DU, "Empathetic Conversational Artificial Intelligence", 2021, August 25.

Dr. Tanmoy Chakraborty, Assistant Prof., CSE, IIITD, "Combating hostile posts on social media: How multimodal signals help?", 2021, July 28.

Dr. Venkatesh Pandiri, Assistant Prof., IIITDM Kancheepuram, "A metaheuristic approach for a variant of the traveling salesman problem", 2021, June 23.



Dr. Bharti, Assistant Prof., Department of Computer Science, University of Delhi, DU, "Data Fusion in Machine Learning", 2021, May 26.

ACM India Compute 2021, ACM India, 2021, November 18 to 2021, November 20.

Seminar/Conference Presentations (National/International)

"A Comprehensive Review on Digital Image Watermarking." In WCNC-2021: Workshop on Computer Networks & Communications (pp. 126-143). CEUR Workshop Proceedings (CEUR-WS.org) on, 2021, May 1. by Dr. Ankit Rajpal.

Placement Details (Placement Details)

91

Extension and Outreach Activities

Organized Pre-admission preparation classes for the candidates under the reserved categories (OBC/SC/ST/EWS category) from 06.09.2021 to 01.10.2021.

Faculty Strength

10

Number of Ph.D. Degrees Awarded

7

Other Significant Information

Vikas Kumar Invited Talk on Recommender System in one-week FDP sponsored by NITW, 04 Sep 2021;

Vikas Kumar Invited Talk on Dimension reduction: SVD, Recommended Systems: Introduction, Collaborative Filtering and Matrix Factorization in one-week FDP sponsored by NITW, 24 Jan 2022;

Vikas Kumar Invited Talk on multilevel classifications for various IoT applications in one-week FDP at Tripura University, 24 Nov 2021;

Naveen Kumar Keynote speaker in International Conference on Machine Intelligence and System Sciences (MISS) 2021 on Nov 01, 2021, at Techno College of

Engineering Agartala, Mahesh khala, Tripura, India in collaboration with Tongmyong University, Busan, South Korea;

Naveen Kumar Expert lecture in Refresher course in computer science on 24th and 25th November 2021 at the University of Allahabad under UGC-HRDC;

"Invited online talk on Modeling Epidemic Dynamics on Multilayer Networks, MLN-DIVE Project, 9 Jun 2022;

Invited Talk in the Online Webinar on Machine Learning conducted by the UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar. 09.03.2022;

Text Analytics using Graph Representation - Refresher Course in Computer Science, University of Allahabad, 26 Nov 2021;

Refresher Course in IT (Inter-disciplinary)

Invited Talk on "IoT Applications in Solar Technology" on 22-04-2021, under DST sponsored six-week Solar Technology based online Entrepreneurship program organized by Skill Faculty of Engineering and Technology and Shri Guru Nanak Dev Centre for Excellence for Innovative Leadership & Entrepreneurship, Shri Vishwakarma Skill University

Invited Talk on "Machine Learning in Medical Domain" on 19-06-2021, under DST-CIMS BHU ACM Student chapter, BHU, Varanasi

Invited talk on "Basic operators & Data types in Python" in an online training program on "One Week Online Training on Basics of R and Python Programming" organized by Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi on 14.03.2022.

Invited talk on "Control structures and user-defined functions in Python" in an online training program on "One Week Online Training on Basics of R and Python Programming" organized by Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi on 15.03.2022. Invited



online talk on Modeling Epidemic Dynamics on Multilayer Networks, MLN-DIVE Project, 9 Jun 2022

Invited Talk in the Online Webinar on Machine Learning conducted by the UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar. 09.03.2022

Text Analytics using Graph Representation - Refresher Course in Computer Science, University of Allahabad, 26 Nov 2021
Refresher Course in IT (Inter-disciplinary), University of Kashmir, 10 March 2021

Invited Talk on "IoT Applications in Solar Technology" on 22-04-2021, under DST sponsored six-week Solar Technology based online Entrepreneurship program organized by Skill Faculty of Engineering and Technology and Shri Guru Nanak Dev Centre for Excellence for

Innovative Leadership & Entrepreneurship, Shri Vishwakarma Skill University.

Invited Talk on "Machine Learning in Medical Domain" on 19-06-2021, under DST-CIMS BHU ACM Student chapter, BHU, Varanasi. Invited talk on "Basic operators & Data types in Python" in an online training program on "One Week Online Training on Basics of R and Python Programming" organized by Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi on 14.03.2022.

Invited talk on "Control structures and user-defined functions in Python" in an online training program on "One Week Online Training on Basics of R and Python Programming" organized by Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi on 15.03.2022.

Department of Mathematics

Major Activities and Achievements

The Department of Mathematics at the University of Delhi was established in 1947 and ever since its inception, department has worked towards becoming a center of excellence for advanced research in various areas of Mathematics including Algebra, Analysis, Topology, Differential Equations, Mathematical Programming. A strong commitment of the department to excellence in teaching and research along with a practical approach towards education has attracted talented students from all over the country. The Department offers M.A./M.Sc. and M.Phil./Ph.D. programs in Mathematics. It is dedicated to providing the students with the environment and the infrastructure that helps them develop the potential for scholarship, creative work, professional realization, and service. Department has been receiving various support and grants including UGC's SAP-DRS, SAP-DSA, DSTFIST and DST-PURSE.

Honours/Distinctions

Ruchi Das addressed as Guest of honor in the inaugural session of two-week interdisciplinary online Faculty Development Programme on "MOOC's, E-Content Development, Research Methodology and Statistical Tools in Open Education World" at the Kalindi College University of Delhi held during August, 2021.

Ruchi Das addressed as Guest of honor in the inaugural session of Faculty Development Programme on "Creation and Development of MOOCs while managing online classes" organized by the Keshav Mahavidyalaya, University of Delhi held during August, 2021.

Ruchi Das appointed as subject expert, Board of studies of Mathematics, H.P. University Shimla for a period of two years from August, 2021.

Ruchi Das was Key Note speaker in the inaugural session of an online workshop on "Net/JRF in Mathematics" organized by



Himachal Ganit Parishad held during August, 2021.

Ruchi Das was Key Note speaker and Chief guest in the inaugural function of one-week interdisciplinary online Faculty Development Programme (FDP-56) on "Graph Theory and Its Applications" at the Deshbandhu college, University of Delhi held during September 15 - 21, 2021.

Ruchi Das was Guest of Honor in the inaugural session of refresher courses on Mathematics/ Operational Research/ Statistics and Computer Science at the Centre for Professional Development in Higher Education held during October 4-18, 2021.

Ruchi Das was Key Note Speaker and Chief Guest in the valedictory session of an International Conference on "Recent Trends in Mathematical Sciences" organized by HIMACHAL GANITA PARISHAD in December 2021.

Ruchi Das was Key Note Speaker and Chief guest in the inaugural session of two-week refresher course in "Applicable Mathematics" organized by the Teaching Learning centre, Ramanujan College, University of Delhi held during December 15-29, 2021.

Ruchi Das chaired an invited talk by Prof. Arunima Ray in Indian Women in Mathematics Annual Conference January 28, 2022.

Ruchi Das was Key Note speaker and Chief Guest in the valedictory session of National Seminar on "Applications of Mathematics in Social Sciences" sponsored by the University Grants Commission at the Shyama Prasad Mukherji College for Women, University of Delhi held during March 3-4, 2022.

Publications

Research Articles

Sharma J., & Kumar A. (2021). Continuous abstract wavelet transforms on homogeneous spaces. *Georgian Mathematical Journal*, 28(5), 805-818.

Priyanka, K., Trisandhya, P., & Kumar A. (2021). Partial optional randomized response technique with calibration weighting to adjust non-response in successive sampling. *Communications for Statistical Applications and Methods*, 28(5), 493-510.

Beniwal, S., Kumar A., & Luthra, P. (2021). Local operator system structures and their tensor products. *Advances in Operator Theory*, 6(2), 1-21.

Madaan, V., Kumar A., & Ravichandran, V. (2020). Estimates for initial coefficients of certain bi-univalent functions. *arXiv preprint arXiv:2006.11742*.

Antony, J., & Kumar A. (2021). Spectra of elements in operator space tensor products of C^* -algebras. *Positivity*, 25(5), 1973-1987.

Beniwal, S., Kumar A., & Luthra, P. (2022). Quantized Hilbert modules over local operator algebras and hyperrigidity of local operator systems. *Annals of Functional Analysis*, 13(1), 1-11.

Kumar A. & Luthra, P. (2022). Operator System Theory: A Survey. In *Mathematics, its Applications and History* (ed. S.G. Dani), Narosa, India.

Rimpi, & Lalitha, C. S. (2022). Constraint qualifications in terms of convexificators for nonsmooth programming problems with mixed constraints. *Optimization*, 1-20.

Rimpi & Lalitha, C.S. (2022). Constraint qualifications in nonsmooth optimization: classification and inter-relations. *Journal of Nonlinear and Variational Analysis*, 6(2), 83-99.

Vasisht, R., & Das R. (2022). Generalizations of expansiveness in non-autonomous discrete systems. *Bulletin of the Iranian Mathematical Society*, 48(2), 417-433.

Salman, M., & Das R. (2022). Remarks on sensitivity and chaos in nonautonomous dynamical systems. *Journal of Difference Equations and Applications*, 28(2), 289-294.



- Vasisht, R., Salman, M., & Das R. (2021). Variants of shadowing properties for iterated function systems on uniform spaces. *Filomat*, 35(8), 2565-2572.
- Mukta, G. A. R. G., & Ruchi, D. A. S. (2021). Chaotic behaviour of maps possessing the almost average shadowing property. *Hacetatepe Journal of Mathematics and Statistics*, 50(5), 1371-1383.
- Salman, M., & Ruchi, D. A. S. (2021). Hypercyclic operators for iterated function systems. *Hacetatepe Journal of Mathematics and Statistics*, 50(2), 483-491.
- Thakur, R., & Das R. (2021). Sensitivity and chaos on product and on hyperspatial semiflows. *Journal of Difference Equations and Applications*, 27(1), 1-15.
- Khan, A. G., & Das T. (2021). Persistence and expansivity through pointwise dynamics. *Dynamical Systems*, 36(1), 79-87.
- Khan, A. G., & Das T. (2021). Average shadowing and persistence in pointwise dynamics. *Topology and its Applications*, 292, 107629.
- Khan, A. G., Das P. & Das T. (2022). Sequential shadowing implies spectral decomposition. *Topology Proceedings*, 60, 169-179.
- Khan, A. G., Das P. K., & Das T. (2019). Topologically Stable Equicontinuous Non-Autonomous Systems. *arXiv preprint arXiv:1906.09815*.
- Anand, J., Sahni, N., & Srivastava S. (2021). On extension of Beurling–Helson–Lowdenslager theorem. *Advances in Operator Theory*, 6(4), 1-11.
- Fagnola, F., Kumar D., & Srivastava S. (2021). A quantum Laguerre semigroup. *Indian Journal of Pure and Applied Mathematics*, 52(4), 1201-1211.
- Malhotra, H. K., & Vashisht, L. K. (2021). On vector-valued nonuniform multiresolution analysis. *Applicable Analysis*, 1-15.
- Jyoti & Vashisht, L. K. (2022). On Hilbert-Schmidt frames for operators and Riesz bases, *Journal of Mathematical Physics, Analysis, Geometry*.
- Jindal, D., & Vashisht, L. K. (2022). Frames with Several Generators Associated with Weyl–Heisenberg Group and Extended Affine Group. *Bulletin of the Malaysian Mathematical Sciences Society*, 1-18.
- Jyoti, & Vashisht, L. K. (2022). Duality for matrix-valued wave packet frames in $L^2(\mathbb{R}^d, \mathbb{C}^{s \times r})$. *International Journal of Wavelets, Multiresolution and Information Processing*, 2250007.
- Vashisht, L. K., & Malhotra, H. K. (2022). Discrete Vector-Valued Nonuniform Gabor Frames. *Bulletin des Sciences Mathématiques*, 103145.
- Malhotra, H. K., & Vashisht, L. K. (2021). Construction of P^{th} Pth-Stage Nonuniform Discrete Wavelet Frames. *Results in Mathematics*, 76(3), 1-30.
- Patel, A., Kumar M., & Bagai, S. (2021). Heat and mass transfer in a two-sided lid-driven square cavity with non-uniform sinusoidal heating on horizontal walls. *The European Physical Journal Plus*, 136(10), 1-32.
- Patel, A., & Kumar V. (2021). Modulation instability analysis of a nonautonomous $(3+ 1)$ $(3+ 1)$ -dimensional coupled nonlinear Schrödinger equation. *Nonlinear Dynamics*, 104(4), 4355-4365.
- Kumar V., & Patel, A. (2021). Dispersion and phase managed optical soliton solutions of a nonautonomous $(3+ 1)$ -dimensional coupled nonlinear Schrödinger equation. *Optik*, 242, 166648.
- Bagai, S., Kumar M., & Patel, A. (2021). Mixed convection in a two-sided and four-sided lid-



driven square porous cavity. *Int. J. Heat Technol.*, 39(3), 711-726.

Kumar R., & Gaur, A. (2022). A note on pairs of rings with the same prime ideals. *Hiroshima Mathematical Journal*, 52(1), 103-112.

Kumar R., & Gaur, A. (2022). A NOTE ON RESIDUALLY SMALL RINGS AND MODULES. *Palestine Journal of Mathematics*, 11(1).

Kumar R., & Gaur, A. (2021). Pointwise maximal subrings. *Beiträge zur Algebra und Geometrie/Contributions to Algebra and Geometry*, 62(4), 843-856.

Kumar R., & Gaur, A. (2021). A note on imbedded prime divisors. *Beiträge zur Algebra und Geometrie/Contributions to Algebra and Geometry*, 62(3), 595-597.

Kumar R., & Gaur, A. (2021). A note on ϕ - λ -rings and ϕ - Δ -rings. *Rendiconti del Circolo Matematico di Palermo Series 2*, 70(3), 1657-1667.

Dobbs, D. E., Gaur, A., & Kumar R. (2021). On a field-theoretic invariant for extensions of commutative rings, II. *Palestine Journal of Mathematics*, 10(2).

Kumari, A., & Singh H. K. (2022). Fixed point free actions of spheres and equivariant maps. *Topology and its Applications*, 305, 107886.

Singh S. K. & Singh H. K. (2021). Borsuk-Ulam type theorem for multivalued maps. *Hiroshima Mathematical Journal*.

Talwar, B., & Jain, R. (2022). Centre of Banach algebra valued Beurling algebras. *Bulletin of the Australian Mathematical Society*, 105(3), 490-498.

Gupta, V. P., Jain, R., & Talwar, B. (2021). On closed Lie ideals and center of generalized group algebras. *Journal of Mathematical Analysis and Applications*, 502(1), 125228.

Talwar, B., & Jain, R. (2021). Closed ideals and Lie ideals of minimal tensor product of certain

C*-algebras. *Glasgow Mathematical Journal*, 63(2), 414-425.

Gupta, P., Goyal, A., & Jain, R. (2021). Independent point-set domination in line graphs. *AKCE International Journal of Graphs and Combinatorics*, 18(3), 180-185.

Pal, S., Paland, S. K. & Panigrahi, A. (2021). Construction of S-Boxes with LBN and DBN ≥ 4 . *Journal of Discrete Mathematical Sciences and Cryptography*, 2105102.

Sharma A., & Rai, P. (2021). A hybrid numerical scheme for singular perturbation delay problems with integral boundary condition. *Journal of Applied Mathematics and Computing*, 1-28.

Yadav, S., & Rai, P. (2021). A parameter uniform scheme for delay parabolic singularly perturbed turning point problem. *Differential Equations and Dynamical Systems*, 1-16.

Yadav, S., & Rai, P. (2021). An almost second order hybrid scheme for the numerical solution of singularly perturbed parabolic turning point problem with interior layer. *Mathematics and Computers in Simulation*, 185, 733-753.

Rai, P., & Yadav, S. (2021). Robust numerical schemes for singularly perturbed delay parabolic convection-diffusion problems with degenerate coefficient. *International Journal of Computer Mathematics*, 98(1), 195-221.

Kumar S., Rai, P., & Cetinkaya, A. (2021). Radius estimates of certain analytic functions. *Honam Mathematical Journal*, 43(4), 627-639.

Kumar S., & Rani, S. (2022). Symmetries of optimal system, various closed-form solutions, and propagation of different wave profiles for the Boussinesq–Burgers system in ocean waves. *Physics of Fluids*, 34(3), 037109.

Kumar S., Mohan, B., & Kumar A. (2022). Generalized fifth-order nonlinear evolution equation for the Sawada-Kotera, Lax, and Caudrey-Dodd-Gibbon equations in plasma



physics: Painlevé analysis and multi-soliton solutions. *Physica Scripta*, 97(3), 035201.

Kumar S., Dhiman, S. K., & Chauhan, A. (2022). Symmetry reductions, generalized solutions and dynamics of wave profiles for the (2+ 1)-dimensional system of Broer–Kaup–Kupershmidt (BKK) equations. *Mathematics and Computers in Simulation*, 196, 319-335.

El-Ganaini, S., Kumar S., & Niwas, M. (2022). Construction of multiple new analytical soliton solutions and various dynamical behaviors to the nonlinear convection-diffusion-reaction equation with power-law nonlinearity and density-dependent diffusion via Lie symmetry approach together with a couple of integration approaches. *Journal of Ocean Engineering and Science*.

Kumar A., Kumar S., & Kharbanda, H. (2022). Closed-form invariant solutions from the Lie symmetry analysis and dynamics of solitonic profiles for (2+1)-dimensional modified Heisenberg ferromagnetic system. *Modern Physics Letters B*, 36(07), 2150609.

Kumar S., & Dhiman, S. K. (2022). Lie symmetry analysis, optimal system, exact solutions and dynamics of solitons of a (3+ 13+ 1)-dimensional generalised BKP–Boussinesq equation. *Pramana*, 96(1), 1-20.

Kumar S., & Mohan, B. (2022). A novel and efficient method for obtaining Hirota's bilinear form for the nonlinear evolution equation in (n+ 1) dimensions. *Partial Differential Equations in Applied Mathematics*, 5, 100274.

Ouahid, L., Abdou, M. A., & Kumar S. (2022). Analytical soliton solutions for cold bosonic atoms (CBA) in a zigzag optical lattice model employing efficient methods. *Modern Physics Letters B*, 36(07), 2150603.

Kumar S., & Rani, S. (2021). Invariance analysis, optimal system, closed-form solutions and dynamical wave structures of a (2+1)-dimensional dissipative long wave system. *Physica Scripta*, 96(12), 125202.

Rani, S., Kumar S., & Kumar R. (2021). Invariance analysis for determining the closed-form solutions, optimal system, and various wave profiles for a (2+1)-dimensional weakly coupled b-type kadomtsev-petviashvili equations. *Journal of Ocean Engineering and Science*.

Kumar S., Hamid, I., & Abdou, M. A. (2021). Specific wave profiles and closed-form soliton solutions for generalized nonlinear wave equation in (3+1)-dimensions with gas bubbles in hydrodynamics and fluids. *Journal of Ocean Engineering and Science*.

Kumar S., & Niwas, M. (2021). Exact closed-form solutions and dynamics of solitons for a (2+1) (2+1)-dimensional universal hierarchy equation via Lie approach. *Pramana*, 95(4), 1-12.

Kumar S., & Mohan, B. (2021). A study of multi-soliton solutions, breather, lumps, and their interactions for kadomtsev-petviashvili equation with variable time coefficient using Hirota method. *Physica Scripta*, 96(12), 125255.

Kumar S. (2021). Some new families of exact solitary wave solutions of the Klein–Gordon–Zakharov equations in plasma physics. *Pramana*, 95(4), 1-15.

Kumar S., & Kumar D. (2021). Generalised exponential rational function method for obtaining numerous exact soliton solutions to a (3+13+1)-dimensional Jimbo–Miwa equation. *Pramana*, 95(4), 1-13.

Kumar S., & Kumar A. (2022). Abundant closed-form wave solutions and dynamical structures of soliton solutions to the (3+1)-dimensional BLMP equation in mathematical physics. *Journal of Ocean Engineering and Science*, 7(2), 178-187.

Kumar S., Jadaun, V., & Ma, W. X. (2021). Application of the Lie symmetry approach to an extended Jimbo–Miwa equation in (3+ 1) dimensions. *The European Physical Journal Plus*, 136(8), 1-30.



Niwas, M., Kumar S., & Kharbanda, H. (2022). Symmetry analysis, closed-form invariant solutions and dynamical wave structures of the generalized $(3+1)$ -dimensional breaking soliton equation using optimal system of Lie subalgebra. *Journal of Ocean Engineering and Science*, 7(2), 188-201.

Kumar S., Niwas, M., Osman, M. S., & Abdou, M. A. (2021). Abundant different types of exact soliton solution to the $(4+1)$ -dimensional Fokas and $(2+1)$ -dimensional breaking soliton equations. *Communications in Theoretical Physics*, 73(10), 105007.

Kumar S., & Rani, S. (2021). Lie symmetry analysis, group-invariant solutions and dynamics of solitons to the $(2+12+1)$ -dimensional Bogoyavlenskii–Schieff equation. *Pramana*, 95(2), 1-14.

Kumar S., Kumar A., & Kharbanda, H. (2021). Abundant exact closed-form solutions and solitonic structures for the double-chain deoxyribonucleic acid (DNA) model. *Brazilian Journal of Physics*, 51(4), 1043-1068.

Kumar S., Kumar D., & Wazwaz, A. M. (2021). Lie symmetries, optimal system, group-invariant solutions and dynamical behaviors of solitary wave solutions for a $(3+1)$ -dimensional KdV-type equation. *The European Physical Journal Plus*, 136(5), 1-36.

Ouahid, L., Abdou, M. A., Kumar S., Owyed, S., & Ray, S. S. (2021). A plentiful supply of soliton solutions for DNA Peyrard–Bishop equation by means of a new auxiliary equation strategy. *International Journal of Modern Physics B*, 35(26), 2150265.

Hendi, A. A., Ouahid, L., Kumar S., Owyed, S., & Abdou, M. A. (2021). Dynamical behaviors of various optical soliton solutions for the Fokas–Lenells equation. *Modern Physics Letters B*, 35(34), 2150529.

Dhiman, S. K., Kumar S., & Kharbanda, H. (2021). An extended $(3+1)$ -dimensional Jimbo–Miwa equation: Symmetry reductions, invariant solutions and dynamics of different

solitary waves. *Modern Physics Letters B*, 35(34), 2150528.

Jain, S., & Kumar S. (2021). Dynamic analysis of the role of innate immunity in SEIS epidemic model. *The European Physical Journal Plus*, 136(4), 1-28.

Kumar S., & Kharbanda, H. (2021). Sensitivity and Chaotic Dynamics of an Eco-Epidemiological System with Vaccination and Migration in Prey. *Brazilian Journal of Physics*, 51(4), 986-1006.

Jain, S., & Kumar S. (2021). Chaos detection in SIR model with modified Beddington–De Angelis type incidence rate and saturated treatment. *International Journal of Modeling, Simulation, and Scientific Computing*, 12(06), 2150049.

Shah, S., Singh R., & Jena, J. (2022). Steepened wave in two-phase Chaplygin flows comprising a source term. *Applied Mathematics and Computation*, 413, 126656.

Kipgen, L., & Singh R. (2021). Riemann problem for van der Waals reacting gases with dust particles. *Ricerche di Matematica*, 1-24.

Chaudhary, B. K., & Singh R. (2022). Converging shocks in van der Waals stiffened relaxing gases. *The European Physical Journal Plus*, 137(3), 1-13.

Kipgen, L., & Singh R. (2022). Collision of an acceleration wave with blast wave in van der Waals dusty reacting gases. *Physics of Fluids*, 34(5), 056106.

Kumar S., & Sharma P. (2022). Faedo–Galerkin method for impulsive second-order stochastic integro-differential systems. *Chaos, Solitons & Fractals*, 158, 111946.

Kumar S., & Abdal, S. M. (2022). Approximate controllability of nonautonomous second-order nonlocal measure driven systems with state-dependent delay. *International Journal of Control*, 1-12.



Upadhyay, A., & Kumar S. (2021). Existence of Solutions for Non-Autonomous Second-Order Stochastic Inclusions with Clarke's Subdifferential and non-Instantaneous Impulses. *arXiv preprint arXiv:2104.02660*.

Kumar S., & Yadav, S. (2021). Infinite-delayed stochastic impulsive differential systems with Poisson jumps. *Indian Journal of Pure and Applied Mathematics*, 52(2), 344-362.

Kumar S., & Mohammad Abdal, S. (2021). Approximate controllability of non-instantaneous impulsive semilinear measure driven control system with infinite delay via fundamental solution. *IMA Journal of Mathematical Control and Information*, 38(2), 552-575.

Kumar S., & Abdal, S. M. (2022). Approximate controllability for a class of instantaneous and non-instantaneous impulsive semilinear systems. *Journal of Dynamical and Control Systems*, 28(4), 725-737.

Kumar S., & Upadhyay, A. (2021). Optimal control problem for fractional stochastic delayed systems with non instantaneous impulses. *IMA Journal of Mathematical Control and Information*, 38(3), 855-880.

Books/Chapter in Books

Kapoor, S., & Lalitha, C. S. (2022). Density Aspects in Semi-Infinite Vector Optimization. In *Continuous Optimization and Variational Inequalities* (pp. 55-70). Chapman and Hall/CRC.

Research Projects

DST-SERB Core Research Grant, 2020-23, "Asymptotics of Solutions of Linear and Non-Linear Delay Differential Equations"-Sachi Srivastava 10.59

DST-SERB (MATRICS Scheme), 2020-23, "Quantum Dynamical Semigroups and Perturbations"- Sachi Srivastava 6.6

DST-SERB (MATRICS Scheme), 2020-23, "Lie Symmetry Analysis and Dynamics of Physical

Phenomena for Nonlinear Evolution Equations"- Sachin Kumar 6.6

DST-SERB (EEQ Scheme), 2020-23, "Study of the dynamics of exact solutions for the nonlinear evolution equations using Lie symmetry analysis"- Sachin Kumar 20.74

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"- H. K. Singh 6.6

DST-SERB (EMR Scheme), 2018-21, "Index of Finitistic Spaces and Transformation Groups on Projective Space"- H. K. Singh 17.51

DST-SERB (MATRICS Scheme), 2018-21, "Scalarization Aspects in Vector and Set Optimization"- C. S. Lalitha, 6.6

Faculty Research Programme Grant-IoE, University of Delhi, 2021-22, "Semigroups of positive operators on C^* algebras and derivations"- Sachi Srivastava 1.75

Faculty Research Programme Grant-IoE, University of Delhi, 2021-22, "Schauder Frames in Banach Spaces and Their Applications "-Lalit Kumar 1.6

Faculty Research Programme Grant-IoE, University of Delhi, 2021-22, "Structure of shock waves in polyatomic gases"-Arvind Patel, 1.75

Faculty Research Programme Grant-IoE, University of Delhi, 2021-22, "Free involutions on Grassmanian manifold $G(n, k)$ "-Hemant Kumar Singh 1.5

Faculty Research Programme Grant-IoE, University of Delhi, 2021-22, "Studies on Analytical Solutions and Solitonic Structures for Nonlinear Evolutionary Differential Equations"-Sachin Kumar 1.75

Faculty Research Programme Grant-IoE, University of Delhi, 2021-22, "Investigation of Shock Waves in Compressible flow"-Randheer Singh 1.75



Faculty Research Programme Grant-IoE, University of Delhi, 2021-22, "The Solvability and Approximate Controllability for Stochastic Differential Equations with Impulse"- Surendra Kumar 1.75

DST-SERB (MATRICS Scheme), 2019-22, "On Some Ring Extensions"- Atul Gaur, 6.6

Seminars/Conferences organized by the Department

Mr Gaurav Srivastava National Head, Power Sector Company, University of Delhi, "Let's take a pause to realign our lives and seek within. Is there peace? Is there a joy? Satisfaction?" on the occasion of International Yoga Day, 2021, June 21.

Prof. Oscar Randal-Williams, Department of Pure Mathematics and Mathematical Statistics, Centre for Mathematical Sciences, University of Cambridge, Cambridge, UK, University of Delhi, "Tautological rings for smooth manifolds", 2021, November 30.

Prof. Killampalli Srinivasa Rao, Senior Prof. (Retd.), The Institute of Mathematical Sciences, Chennai, University of Delhi, "Life and glimpses into the work of Srinivasa Ramanujan" on the occasion of National Mathematics Day, 2021, December 12.

Prof. S S Khare, Ex Pro Vice Chancellor, North-Eastern Hill University, Shillong, University of Delhi, "Academic Ethics and the Challenges" on the occasion of Vigilance Awareness Week-2021 on the theme Independent India @ 75: Self reliance with Integrity, 2021, November 10.

Dr. Shruti Dubey, Assistant Prof., Department of Political Science, Faculty of Social Sciences, Banaras Hindu University, Varanasi, University of Delhi, "Constitution of India: Rationale and Relevance" to celebrate 75th Years of India's Independence-Azadi Ka Amrut Mahotsava on the occasion of Samvidhan Diwas (Constitution Day), 2021, November 26.

Prof. Isabelle Chalendar, University Paris Est Marne-la-Vallee, France, University of Delhi,

"Spectral properties of weighted composition operators on spaces of analytic functions" organised by the seminar committee, South Campus, 2021, April 29.

Prof. Marc Rieffel, University of California, Berkeley, University of Delhi, Physicists say "Matrix algebras converge to the sphere." How can that be? organised by the seminar committee, South Campus, 2021, June 30.

Prof. Vern Paulsen, University of Waterloo, University of Delhi, "Playing Games with Entanglement Assistance" organised by the seminar committee, South Campus, 2021, September 30.

Prof. Nikhil Srivastava University of California, Berkeley, University of Delhi, "Nodal Domains in Sparse Random Graphs" organised by the seminar committee, South Campus, 2022, February 28.

Seminar/Conference Presentations (National/International) by Faculty Members

Tarun Das delivered an invited talk entitled "Topological Dynamics- Some recent advances" in a National Conference at the Department of Mathematics, Manipur University during March 2022.

Tarun Das delivered a Key Note Address as a Chief Guest entitled "Srinivasa Ramanujan – at a glance" in a National Conference at the Department of Mathematics, Aggarwal College, Ballabgarh during December 2021.

Tarun Das delivered an invited talk entitled "Dynamical systems: a reflection on Chaos and entropy" in an International Conference at the Himachal Ganit Parishad during Shimla, December 2021.

Tarun Das delivered an invited talk entitled "Topological entropy in dynamical systems – Recent advances in an International Conference on Differential Geometry & Topology at the Department of Mathematics, Central University of Punjab during October 2021



Tarun Das delivered an invited talk entitled "Recurrence in Dynamical Systems- at a glance" in an Annual Conference of Ramanujan Mathematical Society at the Amrita Vishwavidyalaya, Coimbatore during August, 2021.

Sachi Srivastava delivered an invited talk entitled "Stability of Delay Semigroups" in the 87th Annual Conference of the Indian Mathematical Society organized by the MGM University, Aurangabad held during 2021, December 4-7.

Sachi Srivastava delivered an invited talk entitled "Stability and Polynomial Stability of Delay Semigroups" in Symposium on Operator Semigroups and Evolution Equations of 8th European Conference of Mathematics, Portoroz, Slovenia, held during, 2021, June 22-26.

Anupama Panigrahi presented a paper entitled "Construction of Compact Boolean S-Boxes for Some Lightweight Ciphers" in the International Conference on "Recent Trends in Mathematics" organized by the Department of Mathematics, Hansraj College, University of Delhi held during, 2021, December 22-24.

Sachin Kumar delivered an invited talk entitled "Invariant closed-form solutions and various dynamical wave profiles for the higherdimensional nonlinear differential equation" the 6th International Virtual Workshop on Nonlinear and Modern Mathematical Physics (NMMP-2022) organized by Florida A&M University, Tallahassee, Florida held during, 2022, June 17-19.

Other Inter-Institutional Collaborations

Ajay Kumar collaborated with V Ravichandran, Department of Mathematics National Institute of Technology, Tiruchirappalli, Tamil Nadu, India.

Sachi Srivastava collaborated with Prof. Ralph Chill, TU Dresden, Dresden, Germany.

Sachi Srivastava collaborated with Prof. Franco Fagnola, Politecnico di Milano, Milan, Italy.

Atul Gaur collaborated with David E. Dobbs, Department of Mathematics, University of Tennessee, Knoxville, Tennessee 37996-1320, U.S.A.

Sachin Kumar collaborated with Prof. Wen-Xiu M.A. (University of South Florida), USA.

Sachin Kumar collaborated with Prof. Abdul-Majid Wazwaz (Saint Xavier University), USA.

Sachin Kumar collaborated with Prof. M.A. Abdou (University of Bisha), Saudi Arabia.

Sachin Kumar collaborated with Prof. Loubna Ouahid (University of Bisha), Saudi Arabia.

Sachin Kumar collaborated with Prof. Shoukry El Ganaini (Damanhour University), Egypt.

Sachin Kumar collaborated with Prof. M.S. Osman (Cairo University), Egypt.

Placement Details (Placement Details)

Total Number of Students Placed- 64,

Percentage of Students Placed- 60.377

Extension and Outreach Activities

Tarun Das delivered a lecture entitled "Toral Automorphisms" in a Faculty Development Programme at the Vivekananda College, University of Delhi in July, 2021.

Tarun Das delivered a lecture entitled "Research methodology and emphasis on quality publications" in a Faculty Development Programme at the Hansraj College, University of Delhi in October 2021.

Tarun Das delivered a lecture entitled "Enhancing Research Capacity and collaborations- challenges" in a Faculty Development Programme at the Kalindi College, University of Delhi in August, 2021.

Sachi Srivastava delivered a lecture entitled "Analysis – Measure Theory" in Advanced Foundation School II held at Shiv Nadar University, in December 2021.

Sachi Srivastava delivered a lecture entitled "Meet the Alumana" in Alumna Retreat of Lady Shri Ram College, University of Delhi held during November 2021.

Sachi Srivastava delivered a lecture entitled "An introduction to Hilbert Spaces" in



Refresher Course in Mathematics organised by Teaching Learning Centre, Ramanujan College, University of Delhi held during September 2021.

Ranjana Jain delivered a lecture entitled "Creating e-content using open source tools" in Faculty Development Programme on "Introduction and Working with Open Source Software, Kalindi College, University of Delhi in August, 2021.

Ranjana Jain delivered a lecture entitled "Research methodology in mathematics and Plagiarism" in the Refresher Course in Mathematics organized by the Ramanujan College, University of Delhi in September, 2021.

Ranjana Jain delivered an invited talk entitled "Some applications of Perron Frobenius Theorem" at the Annual Fest "Tangentia'22" of Atma Ram Sanatan Dharam College, University of Delhi on February 19, 2022.

Ranjana Jain delivered an invited talk entitled "Some applications of non-negative matrices" on the occasion of Pi Day at Hansraj College, University of Delhi, on March 14, 2022.

Sachin Kumar delivered an invited talk entitled "Application of the Lie Symmetry Method to Solve Higher-dimensional Nonlinear Evolution Equations in Mathematical Physics" in Faculty Development Programme on Recent Techniques for the solutions of Nonlinear Differential Equations held at IIIT Noida on October 23, 2021.

Faculty Strength

18 + one NASI Fellow

Number of Ph.D. Degrees Awarded

29

Number of M.Phil. Degrees Awarded

9

Other Significant Information

Ruchi Das served as Dean, Faculty of Mathematical Sciences and Head, Department

of Mathematics during April 2021 – March 2022.

Ralph Chill, TU Dresden, Germany joined as Adjunct Prof. at the Department of Mathematics, University of Delhi under DST-SERB VAJRA Faculty Scheme from 30th August 2021.

Ruchi Das is a member of Standing Committee on academic matters to the Academic Council, 2021-22.

Ruchi Das is a member of Business Advisory Committee of the Academic council, 2021-22.

Ruchi Das is a subject Expert on Mathematical Sciences; Inspire Fellowship, DST, Ministry of Science and Technology, Government of India.

Ruchi Das is a member of Subject Expert Committee (SEC) on Physical & Mathematical Sciences under Women Scientists Scheme-A (WOS-A), a flagship program of Department of Science and Technology (DST) since November 2021.

Ruchi Das is a member of Formulation and related matters for Faculty of Technology, University of Delhi.

Tarun Das organized an international Conference of History of Mathematics as a Convener, Program Committee, Indian Society of History of Mathematics during December 16-18, 2021.

Hemant Kumar Singh organized an online Workshop on "MOOCs, E-content Development and Open Educational Resources" as a Convener at the Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi, Delhi during December 15-21, 2022.

Hemant Kumar Singh organized an online Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science as a Co-coordinator at the Centre for Professional Development in Higher Education (CPDHE),



UGC-HRDC, University of Delhi, Delhi during
October 4-18, 2021.

Department of Operational Research

Major Activities and Achievements

Department of Operational Research since its inception has established itself as a leading centre for education and research in the area of optimization and data analytics. To ensure a holistic development of the students, apart from regular teaching and research, the department organizes a wide range of scholarly activities every year. Every year the number of placements is increasing, with more than 80% students placed in the last few years.

Publications

Research Articles

Gautam, P., Khanna, A., & Jaggi, C. K. (2021). An integrated green supply chain model with product recovery management towards a cleaner system. *Journal of Cleaner Production*, 320, 128850.

Verma, M., Jain, R., & Jaggi, C. K. (2022). Impact of Price-Sensitive Demand and Premium Payment Scheme on Bullwhip Effect. *International Journal of Information Systems and Supply Chain Management (IJISSCM)*, 15(1), 1-24.

Gautam, P., Maheshwari, S., Hasan, A., Kausar, A., & Jaggi, C. K. (2022). Optimal inventory strategies for an imperfect production system with advertisement and price reliant demand under rework option for defectives. *RAIRO-Operations Research*, 56(1), 183-197.

Tiwari, S., Cárdenas-Barrón, L. E., Malik, A. I., & Jaggi, C. K. (2022). Retailer's credit and inventory decisions for imperfect quality and deteriorating items under two-level trade credit. *Computers & Operations Research*, 138, 105617.

Priyamvada, P., Rini, R., & Jaggi, C. K. (2022). Optimal inventory strategies for deteriorating items with price-sensitive investment in preservation technology. *RAIRO-Operations Research*, 56(2), 601-617.

Yadav, S., & Khanna, A. (2021). Sustainable inventory model for perishable products with expiration date and price reliant demand under carbon tax policy. *Process Integration and Optimization for Sustainability*, 5(3), 475-486.

Khanna, A., & Kishore, A. (2021). Investigating the effect of inflation on an inventory system for defective items with inspection errors, sales returns and shortages. *International Journal of Services Operations and Informatics*, 11(2-3), 260-279.

Yadav, S., Khanna, A., & Jaggi, C. K. (2021). Sustainable Preservation Strategies with Deterioration Management and Environment Sensitive Demand. *International Journal of Mathematical, Engineering and Management Sciences*, 6(4), 1089.

Gautam, P., & Khanna, A. (2021). Sustainable production strategies for deteriorating and imperfect quality items with an investment in preservation technology. *International Journal of System Assurance Engineering and Management*, 12(5), 910-918.

Khanna, A., & Yadav, S. (2021). An EOQ model for freshness and stock dependent demand with expiration date under cap-and-trade mechanism. *International Journal of Services Operations and Informatics*, 11(2-3), 197-209.



Khanna, A., & Yadav, S. (2021). An EOQ model for freshness and stock dependent demand with expiration date under cap-and-trade mechanism. *International Journal of Services Operations and Informatics*, 11(2-3), 197-209.

Choudhary, N., & Khaitan nee Gupta, V. (2022). High Altitude Aeronautical Platform for VoIP: Dependability Analysis. *Wireless Personal Communications*, 1-27.

Lalropuia, K. C., & Khaitan, V. (2021). Game theoretic modeling of economic denial of sustainability (EDoS) attack in cloud computing. *Probability in the Engineering and Informational Sciences*, 1-25.

Chen, W., Li, S. S., Mehlawat, M. K., Jia, L., & Kumar A. (2021). Portfolio Selection Using Data Envelopment Analysis Cross-Efficiency Evaluation with Undesirable Fuzzy Inputs and Outputs. *International Journal of Fuzzy Systems*, 23(5), 1478-1509.

Aggrawal, D., Anand, A., Bansal, G., Davies, G. H., Maroufkhani, P., & Dwivedi, Y. K. (2022). Modelling product lines diffusion: a framework incorporating competitive brands for sustainable innovations. *Operations Management Research*, 1-13.

Anand, A., Agarwal, M., Aggrawal, D., Hughes, L., Maroufkhani, P., & Dwivedi, Y. K. (2022). Successive generation introduction time for high technological products: an analysis based on different multi-attribute utility functions. *Environment, Development and Sustainability*, 1-18.

Bhatt, N., Kaur, J., Anand, A., & Alhazmi, O. H. (2022). Selecting Best Software Vulnerability Scanner Using Intuitionistic Fuzzy Set TOPSIS. *CMC-COMPUTERS MATERIALS & CONTINUA*, 72(2), 3613-3629.

Anand, A., Irshad, M. S., & Dwivedi, Y. K. (2021). Modeling view count dynamics for YouTube videos: a multimodal perspective. *Kybernetes*.

Anand, A., Bhatt, N., & Alhazmi, O. H. (2021). Modeling software vulnerability discovery

process inculcating the impact of reporters. *Information Systems Frontiers*, 23(3), 709-722.

Bhatt, N., Anand, A., & Yadavalli, V. S. (2021). Exploitability prediction of software vulnerabilities. *Quality and Reliability Engineering International*, 37(2), 648-663.

Singh O., Singhal, S., & Anand, A. (2021). Multigenerational modelling incorporating time lag in innovation adoption. *International Journal of Services Operations and Informatics*, 11(2-3), 332-351.

Panwar, S., Kumar V., Kapur, P. K., & Singh O. (2021). Software reliability prediction and release time management with coverage. *International Journal of Quality & Reliability Management*.

Anand, A., Das S., Singh O., & Kumar V. (2022). Testing resource allocation for software with multiple versions. *International Journal of Applied Management Science*, 14(1), 23-37.

Nisha, Z., Kumar S., Pal, S. K., Singh J., & Singh O. (2022). Insights and reflections using data analytics approach of COVID-19 situation among the Indian states and ethical considerations. *International Journal of System Assurance Engineering and Management*, 13(1), 131-142.

Govindan, K., Dhingra Darbari, J., Kaul, A., & Jha, P. C. (2021). Structural model for analysis of key performance indicators for sustainable manufacturer–supplier collaboration: A grey-decision-making trial and evaluation laboratory-based approach. *Business Strategy and the Environment*, 30(4), 1702-1722.

Kannan, D., Solanki, R., Kaul, A., & Jha, P. C. (2022). Barrier analysis for carbon regulatory environmental policies implementation in manufacturing supply chains to achieve zero carbon. *Journal of Cleaner Production*, 358, 131910.

Pachar, N., Darbari, J. D., Govindan, K., & Jha, P. C. (2022). Sustainable performance measurement of Indian retail chain using two-



stage network DEA. *Annals of Operations Research*, 315(2), 1477-1515.

Sharma R., Kannan, D., Darbari, J. D., & Jha, P. C. (2022). Analysis of Collaborative Sustainable Practices in multi-tier food supply chain using integrated TISM-Fuzzy MICMAC model: A supply chain practice view. *Journal of Cleaner Production*, 354, 131271.

Verma, V., Anand, S., Kapur, P. K., & Aggarwal, A. G. (2022). Unified framework to assess software reliability and determine optimal release time in presence of fault reduction factor, error generation and fault removal efficiency. *International Journal of System Assurance Engineering and Management*, 1-13.

Aakash, A., & Gupta, Aggarwal, A. (2022). Assessment of hotel performance and guest satisfaction through eWOM: big data for better insights. *International Journal of Hospitality & Tourism Administration*, 23(2), 317-346.

Aakash, Tandon, A., & Gupta, Aggarwal, A. (2022). Measuring online reviewer efficiency and ranking: A DEA based approach. *Journal of Quality Assurance in Hospitality & Tourism*, 1-26.

Verma, V., Tandon, A., & Aggarwal, A. G. (2021). The Moderating Effect of Management Review in Enhancing Software Reliability: A Partial Least Square Approach. *Information Systems Frontiers*, 1-19.

Aakash, A., Tandon, A., & Gupta, Aggarwal, A. (2021). How features embedded in eWOM predict hotel guest satisfaction: An application of artificial neural networks. *Journal of Hospitality Marketing & Management*, 30(4), 486-507.

Sharma H., & Aggarwal, A. G. (2021). The influence of user generated content on hotel sales: an Indian perspective. *Journal of Modelling in Management*.

Srivastava A., Mehrotra, D., Kapur, P. K., & Aggarwal, A. G. (2021). Agile Testing Efficiency

using an Integrated Approach of Fuzzy-based MOORA and AHP. *International Journal of Performability Engineering*, 17(2).

Verma, V., Anand, S., & Aggarwal, A. G. (2021). Intuitionistic fuzzy AHP based reliability allocation model for multi-software system. *international journal of services operations and informatics*, 11(2-3), 240-259.

Books/Chapter in Books

Kausar, A., Hasan, A., Gautam, P., & Jaggi, C. K. (2021). Dual Warehouse Inventory Management of Deteriorating Items Under Inflationary Condition. In *Advances in Interdisciplinary Research in Engineering and Business Management* (pp. 39-53). Springer, Singapore.

Gautam, P., Maheshwari, S., Kausar, A., & Jaggi, C. K. (2021). Inventory models for imperfect quality items: a two-decade review. *Advances in Interdisciplinary Research in Engineering and Business Management*, 185-215.

Yadav, S., Siddiqui, F., & Khanna, A. (2021). Sustainable Inventory Model with Carbon Emission Dependent Demand Under Different Carbon Emission Policies. In *Soft Computing in Inventory Management* (pp. 163-175). Springer, Singapore.

Choudhary, N., Khaitan, V., & Goel, V. (2022). Analytical modeling and performance evaluation of SIP signaling protocol: Analytical modeling of SIP. In *System Assurances* (pp. 11-40). Academic Press.

Kumar K. (2022). Primary healthcare facility location and telemedicine, Singapore, Springer. // NOT

Aggrawal, N., & Anand, A. (2022). *Social Networks: Modelling and Analysis*. CRC Press.

Aggarwal, A. G. (2022). *Optimization Models in Software Reliability*. A. Tandon, & H. Pham (Eds.). Springer.

Tandon, A., Sharma H., & Aggarwal, A. G. (2021). Time-Based Mobile Application



Adoption Model: A Firm's Perspective. In *Advances in Interdisciplinary Research in Engineering and Business Management* (pp. 323-333). Springer, Singapore.

Verma, V., Anand, S., & Aggarwal, A. G. (2021). User growth-based reliability assessment of OSS during the operational phase considering FRF and imperfect debugging. In *Advances in Interdisciplinary Research in Engineering and Business Management* (pp. 293-304). Springer, Singapore.

Srivastava A., Mehrotra, D., Kapur, P. K., & Aggarwal, A. G. (2021). Measuring and Evaluating Best Practices in Agile Testing Environment Using AHP. In *Advances in Interdisciplinary Research in Engineering and Business Management* (pp. 475-495). Springer, Singapore.

Sharma H., Aggarwal, A. G., & Tandon, A. (2021). Examining the Value, Satisfaction, and Loyalty Relationship Under Online Framework Using PLS-ANN. In *Encyclopedia of Organizational Knowledge, Administration, and Technology* (pp. 2224-2250). IGI Global.

Research Projects

Institute of Eminence, University of Delhi (IOE/2021/12/FRP), 2021-2022, Analyzing Inventory and Transportation Problems under Reverse Logistic Scenarios, 175000

Institution of Eminence, University of Delhi, Delhi, 2021-2022, Portfolio selection incorporating human intelligence using fuzzy grey relational analysis method, 175000

SERB-DST, 2019-2022, Development of multi-criteria optimization models under uncertainty for software component evaluation and selection in the component-based software development, 660000

Institution of Eminence, University of Delhi, Delhi, 2021-2022, Game theoretic and stochastic modeling of cyber-attacks on cyber-physical and virtualized systems, 175000

Institution of Eminence, University of Delhi, Delhi, 2021-2022, Impact of COVID-19 on Inventory Systems, 175000

Institution of Eminence, University of Delhi, Delhi, 2021-2022, Developing new approaches for selection of sustainable energy sources, 175000

SERB-DST, 2020-2023, Development of Multi-Criteria Decision-Making Approaches for Real-World Decision Situations under Uncertainty, 660000

IoE, University of Delhi, 2021-2022, Mathematical Modeling for Social Media Analysis with special reference to YouTube, 175000

IoE, University of Delhi, 2021-2022, Role and Usage of Customer Reviews in E-commerce, 175000

Seminar/Conference Presentations (National/International)

Jaggi, Chandra K. delivered an invited talk on "Supply Chain Management & Relief Chain Management" at International Conference on Emerging trends in Pure and Applied Mathematics at Department of Applied Sciences in association with Department of Mathematical Sciences, Tezpur University, 2022, March 12-13. (Online)

Jaggi, Chandra K. delivered an invited talk on "The Reach of Inventory Management" at One Week Online Faculty Development Programme on "Recent Developments in Mathematical Sciences and Engineering" at Department of Mathematics, Maharshi Dayanand University, Rohtak, Haryana, 2021, December 22-26. (Online)

Jaggi, Chandra K. delivered an invited talk on "Exploring the effect of Lead Time on Stochastic Inventory System" at One Week Online Faculty Development Programme on "Advanced Mathematical Techniques in Engineering and Technology" at Department of Mathematics, Maharshi Dayanand University, Rohtak, Haryana October 18-22, 2021. (Online)

Jaggi, Chandra K. delivered an invited talk on "Integrating Sustainable Practices within Supply Chain Management" at International Webinar on Emerging Trends in Sustainable Supply Chain Management at Department of Mathematics, Gujrat University in association with Association of Inventory Academicians



and Practitioners (AIAP) and Department of Operational Research, University of Delhi, Delhi, 2021, June 12-13. (Online)

Gupta, Pankaj. delivered an invited talk on “Fuzzy Optimization” in the National Workshop on Fuzzy Logic, Optimization and Soft Computing in Context of Artificial Intelligence organized by Department of Mathematics, CCS University, Meerut, India, 2022, February 16.

Gupta, Pankaj. delivered an invited talk on “Improving supply chain operations: An NLP approach” in the International Conference on Recent Advances in Mathematics and Computational Optimizations organized by School of Computational and Integrative Sciences, Jawaharlal Nehru University, India, 2021, October 28.

Gupta, Pankaj. delivered an invited talk on Portfolio Optimization Techniques” in the AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Program on Machine Learning and Optimization Techniques: Applications to Financial Markets organized by School of Basic Sciences, IIT Mandi, India, 2021, July 12.

Khaitan, Vandana delivered a talk in the online webinar on “Remembering Famous Indian Mathematician from Pre-Independence Era” organized by Department of Mathematics, Keshav Mahavidyalaya, University of Delhi on, 2022, February 05.

Khaitan, Vandana delivered a talk in the International Webinar Series on "Interdisciplinary Aspects of Mathematics" on

“Queueing Theory and its Real-Life Applications” organized by Department of Mathematics, Satyawati College (Day), University of Delhi on 2021, August 10.

Khaitan, Vandana has delivered an invited lecture in the 2nd Conference on Algebra, Analysis and Applications (online) on “Stochastic Processes and their Applications” organised by School of Liberal Studies (SLS), Dr. B R Ambedkar University Delhi on 24/04/2021. Anu G Aggarwal delivered an invited talk as Keynote speaker “Electronic-Word-of-Mouth in Hospitality” at International Conference on Innovative Computing and Communication (ICICC-2022)” from February 19 - 20, 2022 at Shaheed Sukhdev College of Business Studies, Delhi.

Kumar Kaushal. delivered an invited talk on “Location-Allocation Problems in Health Care” in the 27th International Conference of IAPS on Recent Advances in Mathematics and Computational Optimizations organized by School of Computational and Integrative Sciences, Jawaharlal Nehru University, India, during, 2021, October 26-28.

Placement Details (Placement Details)

116 out of 144 (81 %)

Faculty Strength

14

Number of Ph.D. Degrees Awarded

19

Number of M.Phil. Degrees Awarded

3

Department of Statistics

Brief History

The Department of Mathematical Statistics was established in August 1973, though the teaching of M.A. in Mathematical Statistics had been introduced as early as in July 1957 at the initiative of Prof. Ram Behari as part of a

development programme adopted by the Department of Mathematics. Prof. H.C. Gupta, was the first head of the Department and he can be credited with the setting up of a good school in Stochastic Processes. In 1971, the scope of post-graduate course in



Mathematical Statistics was extended leading to M.Sc. degree in Statistics.

In 1987, the Department of Mathematical Statistics was re-named as the Department of Statistics.

The Department imparts rigorous training and exposure to the students in computer education by way of introducing the latest state-of-the-art in the programming language and computer software to enable the students to perform statistical data analysis. With a view to preparing research background of the students, the M.Phil. Course in Mathematical Statistics was introduced in 1977 and the same has been continually updated covering most of the areas of Theoretical and Applied Statistics at the specialization level.

The Department has laboratories equipped with the basic and modern computing facilities. There is a good collection of books in department with latest titles in various areas of statistics. Two computer laboratories with latest computing systems and related equipment have been setup in the Department for the use of students, research scholars and teachers. Regarding the job opportunities, the Department has a placement cell operating since academic year 2005-06. The department also has Research Activity Cell, UDAAN-The Socio-Cultural cell and Heritage Club operating since the academic year 2016-17. We can take pride in the fact that students get suitable placement in Research Institutes or Industries or Government Departments. Significant number of students are selected in the prestigious Indian Statistical Service (ISS) each year.

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 offers two degree-oriented programmes, namely M.A./M.Sc. and Ph.D. in Statistics with a curriculum that includes emerging and core areas in various fields of Statistics. The Department also organizes special invited talks by eminent persons from India and abroad. Distinguished Prof.s visited the department to deliver research talks and interact with faculty and students. The Department has achieved great success in the suitable placement of students in reputed national and international companies/organizations.

Publications

Research Articles

Pandey, R., & Ali, D. (2021). Bayesian Analysis of Hjorth Distribution under Generalised Type I Progressive Hybrid Censoring Scheme. *Journal of Scientific Research*, 65(3).

Garg S., Patro, R. K., Behera, S., Tigga, N. P., & Pandey, R. (2021). An overlapping sliding window and combined features-based emotion recognition system for EEG signals. *Applied Computing and Informatics*.

Pandey, R., & Ali, D. (2021). Bayesian Analysis of Nakagami Distribution under Generalised Type II Progressive Hybrid Censoring Scheme. *Journal of Scientific Research*, 65(5), 252-264.

Pandey, R., Srivastava P., & Ali, D. (2022). Bayesian Risk Analysis for Length Biased Log Logistic Distribution Under Different Loss Functions. *Journal of Scientific Research*, 66(3).

Pandey, R., & Srivastava P. (2022). Bayesian Estimation for the Two Log-Logistic Models Under Joint Type II Censoring Schemes. *Journal of Reliability and Statistical Studies*, 229-260.

Garg S., Pandey, R., & Gara, A. (2022, March). Assessment of the Impact of Personality Characteristic on Emotion Resilience. In 2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS) (Vol. 1, pp. 440-444). IEEE.

Goel, K., Varshney, M. K., Grover, G., & Pant, S. (2022). On the Estimation of Cure Rate in the



Presence of Prognostic Factors using Various Discrete Count Distributions. *Health Science Journal*, 16(1), 1-6.

Grover, G., Ravi, V., Deo, V., & Yadav, C. B. (2021). A Complete Time-Dependent Carrier-borne Epidemic Model. *Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138)*, 53(4), 29-35.

Grover, G., Chakravarty, S., Aggarwal, S., & Deo, V. (2021). Estimating Disability Adjusted Life Years using Survival Models in HIV/AIDS Risk Groups. *Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138)*, 53(4), 36-47.

GROVER, G., SAINI R., RAVI, V., & KUMAR M. MARKOV CHAIN MODELLING OF PERSISTENCY FOR LIFE INSURANCE IN INDIA.

Grover, G., & Vinit, P. K. (2021). Actuarial Modelling for Patients with Acute Lymphoblastic Leukaemia (ALL) based on CNS1 Status. *Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138)*, 53(3), 23-32.

Chakravarty, S., Grover, G., & Aggarwal, S. (2021). Association of Socioeconomic and Demographic Factors With COVID-19 Related Health Outcomes in SAARC Nations. *Statistics and Applications*, 367-386.

Deo, V., & Grover, G. (2021). A new extension of state-space SIR model to account for underreporting—an application to the COVID-19 transmission in California and Florida. *Results in Physics*, 24, 104182.

Grover, G., & Aggarwal, S. (2021). A study comparing cost-effectiveness of combination therapy for preventing opportunistic infections among human immunodeficiency virus-infected adults on antiretroviral therapy. *Value in Health Regional Issues*, 24, 107-113.

Kim, J., Das R. N., Singh P., & Lee, Y. (2021). Robust second-order rotatable designs invariably applicable for some lifetime

distributions. *Communications for Statistical Applications and Methods*, 28(6), 595-610.

Singh P., Sarin, V., & Midha, N. Mixture Designs Generated Using Orthogonal Arrays from Mutually Orthogonal Latin Squares.

Singh P., Sarin, V., & Midha, N. Mixture Designs Generated Using Orthogonal Arrays from Mutually Orthogonal Latin Squares.

Singh P., & Kumar A. (2021). D-Optimal Bayesian Designs for Beta Regression Model. *International Journal of Statistics and Reliability Engineering*, 8(1), 10-15.

Akhter, Z., MirMostafae, S. M. T. K., & Ormoz, E. (2022). On the order statistics of exponentiated moment exponential distribution and associated inference. *Journal of Statistical Computation and Simulation*, 92(6), 1322-1346.

Akhter, Z., Almetwally, E. M., & Chesneau, C. (2022). On the Generalized Bilal Distribution: Some Properties and Estimation under Ranked Set Sampling. *Axioms*, 11(4), 173.

Alsubie, A., Akhter, Z., Athar, H., Alam, M., Ahmad, E. B. A., Cordeiro, G. M., & Afify, A. Z. (2021). On the omega distribution: Some properties and estimation. *Mathematics*, 9(6), 656.

Research Projects

ICMR, 36 Months, Global DNA Methylation in Hypertension: A population based nested case-control study from Punjab, 2021-24, 55,44,192/-

IoE, DU, 12 months, Applied Bayesian Modelling, FRP grant of IoE, DU for 2021-22, 1,75,000/-

Seminars/Conferences organized

Prof. Dilip Kumar Dey, Prof., Department of Statistics, Indira Gandhi National Tribal University, Amarkantak, MP, India, NA, Dynamics of concepts and definitions in Indian Census, 2021, September 03.

Prof. Guido Knapp, Prof., Fakultät Statistik, Technische Universität, TU Dortmund



University, Dortmund, Germany, NA, Statistical Meta-Analysis, 2021, September 24.

Dr. Nezhat Shakeri, Associate Prof., Department of Biostatistics, School of Applied Medical Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran, NA, Application of joint modelling of SMART data with survival outcomes-SANAD study, 2022, February 28.

Prof. Bimal Sinha, Prof., University of Maryland, Baltimore County (UMBC), USA, NA, My chancy life as a Statistician, 2022, March 11.

Dr. Y. Kifle, Assistant Prof., Department of Mathematics and Statistics, University of Maryland Baltimore County (UMBC), Maryland, USA, NA, Modeling the effect of household distance from a hydroelectric dam on time-to-time Malaria using various survival and count regression models, 2022, March 25.

Seminar/Conference Presentations (National/International)

One invited lecture at International Conference on Advancement in Interdisciplinary Research (ICAIR-2021), Jointly organised by Shia P.G. College, Lucknow, UP & Science Tech Institute, Lucknow, UP, India during, 2021, October 26-28.

The topic of talk: Modeling discrete data.
One invited lecture at the National Conference on 'Advanced Statistics & Applied Sciences (ASAS-2022)' organized by Teaching Learning Centre Ramanujan College, University of Delhi, during, 2022, March 30 – 31.

The topic of talk: Monitoring Crime Patterns-A Bayesian Study.
One invited lecture at the Two-Week Online Refresher Course on 'Application of Statistical Techniques in Real World' organized by Teaching Learning Centre Ramanujan College, University of Delhi, during April 26 - May 09, 2021.

The topic of talk: Bayesian Reliability
Special Invited talk entitled "Uniform Designs for Unconstrained Mixture Experiments using Designs in Spherical Region" in Seventh International Conference on Statistics for Twenty-first Century-2021 (ICSTC 2021)" organized by the Department of Statistics, University of Kerala (virtual conference) during, 2021, December 15-19.

Invited talk entitled "Mixture Designs based on Definitive Screening Composite Designs" in International Conference (Virtual Mode) on Emerging trends in Statistics and Data Science in conjunction with 40th Annual Convention of ISPS to be held during 07-10, September 07-10, 2021.

Placement Details (Placement Details)

Number of Students Placed: 79

Percentage of Students Placed: 98%

Extension and Outreach Activities

Webinar on "How to begin your Data Science journey" by Harsh Singhal (Koo-India) and Raj Kumar (C1X Inc.) on April 14, 2021.

Online Session on "Hands on Tableau training" by Harsh Singhal (Koo-India) and Raj Kumar (C1X Inc.) on April 28, 2021.

Online Session on "Interactive Tableau Dashboard Making" by Harsh Singhal (Koo-India) and Raj Kumar (C1X Inc.) on May 5, 2021.

Online Session on "HR Talk" by Abhinandan Das (Panasonic Life Sol.) & Raj Kumar Pandey, (Panasonic Life Sol.) on July 03, 2021.

Online Session on "How to create a job winning resume/CV" by Mr. Om Narayan Rai (MyTAT) on July 17, 2021.

Teacher's Day celebration on September 05, 2021.

Saraswati Puja/Vasant Panchami Celebration, February 05, 2022.

Cloth Collection Drive, March 23-25, 2022.

Faculty Strength

Permanent: 03

Ad-hoc: 01

Number of Ph.D. Degrees Awarded

07



Number of M.Phil. Degrees Awarded

01

Other Significant Information

The Department has its own placement cell called Credence. It has been created in the year 2004. With an objective to provide a platform for the placements of students pursuing M.A./M.Sc. Statistics from University of Delhi. Through the placement cell, students get an opportunity to interact with organizations in corporate world. In the year 2021-22, 79 (till

date) students got placed through the Placement Cell. The Department has its own website statistics.du.ac.in. The information about faculty, research scholars, other staff of the department, courses run by the department, syllabus and other relevant information can be found on the department website. The Department has two well-equipped fully computerized laboratories with the latest computing facilities for the students and researchers.



Faculty of Medical Sciences

Anatomy (MAMC)

Brief History

The foundation stone of MAMC was laid in 1959 and the department of anatomy has been an integral part of the college since its conception. At present, there is an intake of 250 MBBS students per year. The department also has contributed to teaching anatomy to allied courses like B.Sc. Nursing, BPO, BASLP and MLT. The department of anatomy has been continuously evolving to meet the needs of the constantly changing medical curriculum standards. The department also serves as an embalming facility recognised by the Govt. of NCT of Delhi along with fully functional fetal autopsy and cytogenetics laboratories.

Major Activities and Achievements

The embalming facility at the department recognised by Govt. of NCT of Delhi as official embalming facility. This facility has state of art, body preservation, handling and storage areas with special attention given to seamless transfer of dead bodies for ease of the relatives. The facility also has a viewing room for the relatives to pay their last respect.

The Department of Anatomy is a center for the following teaching programs: -
MBBS Bachelor of Medicine and Bachelor of Surgery.

Bachelor of Dental Sciences.

B.Sc. Nursing.

Bachelor of prosthetics and orthotics
Interdisciplinary postgraduate and superspeciality teaching of Neurosurgery, Cardio- Thoracic Surgery department of MAMC & GIPMER.

Interdisciplinary postgraduate teaching of ENT, Orthopedics and Surgery department of MAMC & LNH.

Honours/Distinctions

Dr. Anjali Singh received the award for best poster presentation: entitled "Complete Osseous Septation of Jugular Foramen On Right Sided Dry Human Skull – A Case Study" at NATCON 2021 held in 29-30 Jan 2022

Publications

Dr. Jigyasa Passey, Dr. Preeti Goswami, Dr. Sabita Mishra, (2021). Ossification of suprascapular Ligament – A Case Report, *Global Journal of research and Analysis*, 6(10), DOI: 10.36106.

Dr. Jigyasa Passey, Dr. Preeti Goswami, Dr. Sabita Mishra, (2021). Narrowing of Sacral Canal at The Hiatus- A Rare Entrapment Syndrome Entity, *Indian Journal of Applied Research*, 4(11), DOI: 10.36106.

Shweta Jha, Dinesh Kumar. (2021). Acute Lymphoblastic Leukemia in Indian Children at a tertiary Care Center: A Multiparametric study with Prognostic Implications, *National Journal of Clinical Anatomy*, 4(10), 214-219.

Pooja Dawani, Anita Mahajan, Neelam Vasudeva. (2022). Variation in the pattern of deep palmar arch in the hand and its surgical importance, *Cureus.*, 1(14), doi:10.7759/cureus.20873.

Poonia D, Kumar D, Rangrej S B. (2021). Rerouting the Dissection of the Infratemporal and Submandibular Regions., *Cureus.*, 5(13), e15227.

Yadav S, Kalra S, Wadhwa S, Rani P. (2022). iv. Role of 4-methylimidazole in liver toxicity: A histomorphometric study in albino rats, *Natl J Clin Anat*, (11), 37-41.

Saluja S, Agarwal S, Tuli A, Raheja S, SR Tigga. (2022). Morphological variations of sacrum in adult Indian population., *International Journal of Anatomy and research*, 1(10), 8230-37.

Shekhawat D, Gupta, T; Aggarwal A et al. (2021). A Cadaveric Cerebellar Tonsillar Decent with its Rare Variation in Blood Supply., *Int J Anat Var.*, 11(14), 139-41.

Renu Baliyan Jeph, Tuli A et al. (March 2022). Correlation between maternal serum Vegf



levels and fetal outcome in females with recurrent abortions, *International journal of Scientific study.*, 12(9), 1-4.

Research Projects

Govt. of NCT under the plan scheme "Strengthening of Medical Research at MAMC", 2021-22, Occurrence of p53 mutations and Chromosomal Anomalies of 1p in children with solid tumors, 1,50,000/- approx.

Govt. of NCT under the plan scheme "Strengthening of Medical Research at MAMC", 2021-22, In-silico molecular characterisation of DNAH6 and ATPase6 (mitochondrial DNA) genes in asthenozoospermia patients in northern region of India., 1,50,000/- approx.

Govt. of NCT under the plan scheme "Strengthening of Medical Research at MAMC", 2021-22, Karyotyping of fetal blood sample of fetuses received for autopsy received in the Department of anatomy., 1,50,000/- approx.

Govt. of NCT under the plan scheme "Strengthening of Medical Research at MAMC", 2021-22, Expression of Pax 3 in human neural tube defects., 1,50,000/- approx.

Seminars Organized

Mrs. Kuljeet Kaur, NGO Member, Ministry of Women and Child Welfare, Gender sensitization, Foundation course for MBBS, 2022, March 02.

Conferences Organized

2nd Basic Histological Techniques, 25-03-2022, Govt. of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

Seminar/Conference Presentations

Dr. Sabita Mishra, delivered a virtual lecture on blended teaching in anatomy organised by Wolter Kluwer 2021, July 15.

Dr. Sabita Mishra, delivered organised a lecture on surgical anatomy of liver in the medical edge Wolter Kluwer 2021, August 13.

Dr. Babita Pangtey attended the 6th International Anatomical Sciences and Cell Biology Conference 2022. 21 - 23 February 2022 and presented a poster on Impact of Multimodal Teaching Learning Interventions on Academic Outcome of Academically Challenged First Professional Medical Undergraduate Students.

Dr. Swati Tiwari gave an oral presentation on "Stained brain sections: an effective way to elucidate sectional neuroanatomy" at NATCON 68, Jan 2022.

Dr. Nishat Parveen, presented an oral presentation entitled "A morphometric analysis of foramen vesalius: A clinical consideration" at NATCON 68, Jan 2022.

Dr. Shubhi Saini Poster presentation "OEIS complex a rare fetal autopsy case with its embryological correlation" at NATCON 68, Jan 2022.

Dr. Devendra Singh Shekhawat, Poster presentation entitled – "Accessory belly of Gastrocnemius: Cause of popliteal artery entrapment" at NATCON 68, Jan 2022.

Hem Singh did a paper presentation entitled – "Study of Length of Index & Ring Finger of Hand in North Indian Population". at NATCON 68, Jan 2022

Dr. Shweta Singhal presented a poster on "Tetralogy of Fallot: A Foetal Autopsy Study with Its Embryological Correlation." at NATCON 68, Jan 2022.

Dr. Sapna Singh presented a poster on "Fetal Autopsy Case Report: Hydrops Fetalis with Subhepatic Caecum" at NATCON 68, Jan 2022

Faculty Strength

Director Prof.: 03

Prof.: 04

Associate Prof.: 02



Anaesthesiology (LHMC)

Brief History

Our department aims to educate our students with excellent knowledge as well as provide rigorous training that will prepare them to meet the ever increasing professional and scientific challenges. The different components of Anaesthesiology - Anaesthesia administration, Intensive Care management, Acute and Chronic Pain management and the Life Saving Resuscitation skills – are all imparted, which provide an extraordinary environment for medical education and training. Besides clinical knowledge, the department conducts clinical research activities to keep at pace with the advancements going on around the world. The highest calibre faculty, high class education, research, and patient care all serve to attract the most deserving students to this department and the Institution.

Major Activities and Achievements

Successfully running 3 year post graduate course in M.D. Anesthesia with with an intake of 13 students each year.

Post trauma technician course sponsored by Ministry of Health and Family welfare with intake of 40 students each year.

Recently opened pain and palliative care department with OPD and procedural facilities.

Creating a post operative care unit outside the main operation theater.

Imparting basic life support training to interns and other residents' staff and faculties in the hospital.

Organizing webinars, CME, workshops, conference for academic up-gradation

Managing Operation theater and Intensive care units in various specialties for elective and emergency procedures.

Publications

Kundal R, Kant V, Singh A et al. (2021). Clinical and Demography characteristics of COVID-19 in a pediatric population – A symptomatic review., *The journal of international medical sciences academy*, 34(Oct – Dec); No.4), 1-10.

Singh P, Kundal R, Sharma N, Pandey, M. (2021). An unrecognized risk in endotracheal intubation by a Truview laryngoscope., *India J Anaesthesia.*, Apr;65(4), 337-338.

Kundal R, Kant V, Singh A. (2021). Anaesthetic concerns in a COVID 19 positive child., *JIMSA*, (34(4)), 247- 56.

Singh Ranju, Singh Pooja, Neelakandan Eashwar et al. (2021). Anaesthetic management in COVID-19 Parturients scheduled for caesarean delivery - a comparison with non-COVID-19 Parturients., *Int J Res Med Sci*, 9 (12), 3495-3500.

Mehdiratta L, Kumar N, Bajwa SJS. (2021). Advancing, strengthening and reshaping obstetric critical care with Point-of-Care Ultrasound (POCUS)., *Indian J Anaesth*, (Oct;65(10)), 711-715.

Bhattacharya PK, Nair SG, Kumar N et al. (2021). Critical care as a career for anaesthesiologists., *Indian J Anaesth.*, 65(1), 48-53.

Kumar N. (2021). Obstetric Anesthesia: A Case Based and Visual Approach, *Anesthesia & Analgesia: February 2021. Vol 132(2):p e18*.

Kundal Raksha, Singh Ranju, Roy Choudhury. (2021). Anesthetic implications and role of



preoperative beta blockade in esophageal substitution with stomach in pediatric surgical patients. *Ain-Shams Journal of Anesthesiology, Ain-Shams Journal of Anesthesiology, volume 13, Article number: 56 (2021).*

Kumar R, Choudhury SR, Yadav PS et al. (2021). An analysis of safety and efficacy of day-care surgery in children in a tertiary care hospital in India., *J Indian Assoc Pediatric Surgery.2021;26:148-52.*

Seminars Organized

Dr. Nishant Kumar Prof., Chronic Renal failure, Case Discussion, 2021, October 11.

Dr. Maitree Pandey, Director Prof., Geriatric patient for cataract surgery, Geriatric Anesthesia, 2021, November 20.

Dr. Ajai Kumar Director Prof., Portal hypertension, Hepatic diseases, 2021, November 28.

Dr. Nitin Hayaran, Prof., COPD, Lung Diseases, 2022, August 01.

Dr. Anshu Gupta, Director Prof., Tracheostomy, Case Discussion, 2022, January 17.

Conferences Organized

Basics of Acupuncture at LHMC from 3rd - 17th September 2021, 03-09-2021.

Hands-On-Workshop on "Percutaneous tracheostomy" at LHMC in September 2021, 09-09-2021.

Hands-On-Workshop on "Safe Injection Practices" at LHMC, 21-09-2021, Non-Funded LHMC Anaesthesia Refresher Course, 04-10-2021.

Seminar/Conference Presentations

National Conference ISACON 2021 on 2021, October 17.

68 th ISACON 2021 in Ahmedabad on, 2021, November 26.

ICACON Workshop at LHMC and conference Hotel Eros, New Delhi on 18 th December, 2021 on, 2021, December 17.

Anaesthesia Postgraduate Pre Examination Course (APPEC-22) 26thFeb- 4th March 2022. ISACON Lucknow, March 2022: Dr. Maitree Pandey,.

IAPA Delhi Chapter Webinar on 7th August 2021.

Department of Transfusion Medicine, LHMC, New Delhi Webinar on 12th August 2021, Dr. Ranju Singh.

National Board of Examination, Webinar on 1st September 2021: Dr. Ranju Singh.

CME on Recent Advances in Anaesthesia 2021 held on 9th - 10th October 2021 at RML hospital.

Other Inter-Institutional Collaboration

ICACON workshop organized by Department of Anesthesia, LHMC on 17th Dec 2021 as part of conference organized by Department of Anesthesia, MAMC on 18th and 19th Dec 2021.

Faculty Strength

Director Prof.: 06

Prof.: 07

Associate Prof.: 02



Anaesthesiology, Critical Care and Pain Medicine (UCMS)

Brief History

The department provides anaesthesia services to all elective and emergency OTs and manage critically ill patients in ICUs. During COVID times, the department of Anaesthesiology had functioned as the center of all COVID-19 patient care and training related to critically ill COVID-19 patients (oxygen therapy, BiPAP, Non-invasive and invasive ventilation) during various waves at Guru Teg Bahadur Hospital. The department not only managed critically ill patients in the multiple ICUs but was also involved in setting up these ICUs.

Major Activities and Achievements

During COVID, the department was involved in setting up and running COVID OTs for emergency surgeries including cesareans, managing resuscitation calls, transfer calls, and also catered to the mucormycosis case load. The department has been actively involved in training of various cadres of health personnels for taking care of COVID patients. This included online and offline teaching modules regarding oxygen therapy, ventilatory management and infection control practices of COVID patients etc.

Department of Anaesthesia looked after Oxygen and other medical gases supply of GTB Hospital including the MCH and DEM blocks. In anticipation of COVID waves the oxygen outlets were increased in GTB Hospital so as to achieve availability of oxygen outlets on maximum patient care beds. A 113KL buffer tank was also commissioned at the site of new Medical gas plant. Storage capacity of liquid medical oxygen of GTB Hospital was also planned to be increased from existing 34KL to 53 KL along with increasing the flow capacity of vaporizers and this augmentation is currently going on. Addition of 5 PSA plants with a total capacity of 3000LPM was also done to the existing medical gas supply.

Honours/Distinctions

Dr. Ashok Kumar Saxena
Felicitated with University of Delhi award for Exemplary services by Vice- Chancellor Prof. P.C. Joshi
Vice President of ISSP (Indian Society for Study of Pain) till April 2022.
Associate editor of "Indian Journal of Pain" till April 2022.

Dr. RS Rautel
Overall administrative management as the Medical Director, GTB hospital till 02.12.2021
Setting up of overall facilities for Covid-19 patients in the hospital.
500 ICU/HDU beds made functional in Ramleela ground, GTB Hospital for COVID-19 patients.
Communicating and coordinating with the government of Delhi regarding the Covid-19 patient's statistics and overall management.
Member of the Governing council of IHBAS, CNBC, DSCI and RGSSH till 02.12.2021.
Joint Secretary of the National Association of Critical Care Medicine (India).
Co-Editor of Asian Archives of Anaesthesiology & Resuscitation, a journal of NACCM (India).

Dr. Sujata Chaudhary
Faculty for CME at GTBH on 26th Feb 2022 Myths and half truths decrypted in Anaesthesia & Pain Medicine.
Faculty & chairperson for Paediatric Airway - seed workshop of Indian Association of Paediatric anaesthesiologists & Airway Management Foundation held at Hotel Metropolitan on 12th March 2022.
ACLS Instructor for ACLS course at Baba Saheb Ambedkar Hospital on 24-25th March 2022.
Panelist & chairperson at AB-AAW, AIIMS Bhopal Advanced Airway CME cum Workshop 'Beyond the Basics' held at AIIMS Bhopal on 15-16 April 2022.

Dr. Medha Mohta
Appointed as an NBEMS (National Board of Examinations in Medical Sciences) assessor



for assessment of Anaesthesiology Department of a hospital.
National faculty for NBEMS Webinar.

Dr. Geetanjali T Chilkoti

Co-author and Supervisor - First Prize for Poster presentation in Obstetric section at 2nd International 12th National Conference of the Indian College of Anaesthesiologists, ICACON 2021 from 17th – 19th December 2021.

Co-author and Co-supervisor - KOPS award for the research titled “Modulation of mTORC-1 and IL-6 for prevention of CPSP following transdermal fentanyl and buprenorphine for prevention of chronic persistent postsurgical pain – a randomized study at Annual conference of ISA at Ahmedabad in August 2021.

Co-author and Co-supervisor for Dr. Kusum Pandit award by University college of Medical sciences in the year 2021.

Dr. Rashmi Salhotra

Medical Expert for Health Webinar: Living with Covid: Caring for your Health on 5th June, 2021 organised by St. Francis de Sales Sr. Sec. School. Janakpuri and Sahoday.

Nominated to attend “Training of trainers” session at MAMC, Delhi on 1st and 9th July 2021.

Imparted training in “Basic Life Support” to the residents and staff of UCMS and GTBH on 24th August 2021.

Dr. Anshul Singh

Dr. Kusum Pandit Memorial award at UCMS for Best scientific paper in the year 2021.

Dr. Vibhor Gupta,

Medical excellence award by Delhi Medical Forum for fight Against covid-19.

Certificate of appreciation by National Medical Organisation (NMO).

Certificate for completion of basic course in biomedical Research (BCBR).

Dr. Richa Chauhan

Obtained provider course certificate in AHA accredited BLS, ACLS in July 2022.

Participated as a faculty and delivered lectures in BLS training provided for medical and paramedical staff at UCMS.

Publications

Tyagi A, Mohan A, Singh Y, Luthra A, Garg D, Malhotra RK. (2021). Effective Dose of Prophylactic Oxytocin Infusion During Cesarean Delivery in 90% Population of Nonlaboring Patients with Preeclampsia Receiving Magnesium Sulfate Therapy and Normotensives: An Up-Down Sequential Allocation Dose-Response Study, *Anesth Analg*, 2(134), 303-11, 3.

Saxena AK, Bhardwaj N, Chilkoti G, Sharma T, Banerjee BD. (2021). Modulation of signal transduction gene expression following pulsed radiofrequency in dorsal root ganglia and pregabalin therapy., *Pain Medicine*, 1(22), 2276-2282, 0.

Mohta M, R L, Chilkoti GT, Agarwal R, Malhotra RK. (2021). A randomised double-blind comparison of phenylephrine and norepinephrine for the management of postspinal hypotension in pre-eclamptic patients undergoing caesarean section, *European Journal of Anaesthesiology*, 38(10), 1077-1084, 3.

Mohta M, Chilkoti GT, Malhotra RK, Lakshmi R. (2022). Reply to phenylephrine and norepinephrine for the management of spinal-induced hypotension in preeclamptic patients., *European Journal of Anaesthesiology*, 39(3), 292, 0.

Kapoor R, Saxena AK, Vasudev P, Sundriyal D, Kumar A. (2021). Cancer induced bone pain: current management and future perspectives., *Med Oncol*. 2021, 11(38), 134, 0.

Mohta M, Chowdhury RB, Tyagi A, Agarwal R.. (2021). Efficacy of different infusion rates of oxytocin for maintaining uterine tone during elective caesarean section: A randomised double blind trial, *Anaesthesia and Intensive Care*, 49(3), 183-189, 0.



Mohta M, Bambode N, Chilkoti GT, Agarwal R, Malhotra RK, Batra P. (2022). Neonatal outcomes following phenylephrine or norepinephrine for treatment of spinal anaesthesia-induced hypotension at emergency caesarean section in women with fetal compromise: a randomised controlled study, *International Journal of Obstetric Anaesthesia*, 49(0), 103247, 0.

Chilkoti G, Mohta M, Saxena AK, Ahmad Z, Sharma CS. (2021). Awake Prone Positioning in the Management of COVID-19 Pneumonia: A Systematic Review., *Indian J Crit Care Med*, 8(25), 896-905., 2.

Chilkoti G, Mohta M, Malik A, Saxena AK. (2021). Hydroxychloroquine in a COVID-19 patient on chronic Pregabalin therapy- Is it safe?, *J Anaesthesiol Clin Pharmacol*, 1(38), 127-8, 1.

Chaudhary S, Chaudhary S, Kumar M, Salhotra R. (2021). Fentanyl versus nalbuphine for intubating conditions during awake fiberoptic bronchoscopy: A randomised double-blind comparative study, *J Anaesthesiol Clin Pharmacol*, 3(37), 378-82, 1.

Seminar/Conference Presentations

Dr. Sujata Chaudhary

Examiner at UCMS >BH for MD Anaesthesia exam held in April 2021.

Faculty and Coordinator for workshop at LHMC anaesthesia Refresher Course on "Mastering Table vivas" (LARC-MTV) held at LHMC from 4-8th October 2021.

Delivered a talk on "Simulators in Anaesthesia at" "Recent Advances in Anaesthesia" held on 9th-10th October 2021 organised by ABVIMS & Dr. RML Delhi Panelist at "CPR: A way forward in teaching & training" at 60th ISACON Delh2021, Annual conference of Delhi branch of ISA held on 15th-17th October 2021.

e-Poster presentation by one of my PG student Dr. NIKITA at Annual conference of Delhi branch of ISA held on 15th-17th October 2021.

Faculty and chaired a session at "Non hemorrhagic maternal collapse", Do's and

Don'ts of Maternal CPR: A video presentation, post conference workshop at 43rd Annual Conference of AOGD organised by Department of Obstetrics and Gynaecology UCMS >B Hospital on 23rd November 2021.

Dr. Medha Mohta

Chairperson for a session "Airway management in emergency and trauma patients" in CME on Improving outcomes (theme) in Anaesthesiology and Critical Care, organized by N.S.C.B. Medical College, Jabalpur on 6th and 7th August 2021.

Speaker at NBEMS (National Board of Examinations in Medical Sciences) webinar on 13th October 2021. Delivered lecture on "Parturient with PIH: Anaesthetic management".

Faculty at 2nd International 12th National Conference of the Indian College of Anaesthesiologists, ICACON 2021 from 17th – 19th December 2021. Delivered lecture on "Peripartum cardiomyopathy in pregnancy and recent advancement in treatment modalities" and was also a judge for poster session.

Faculty at MAMC Anaesthesia update from 1st–5th Feb 2022 –Conducted "Case discussion on kyphoscoliosis" on 4th Feb 2022.

Faculty for Anaesthesia Postgraduate Pre-Examination Course (APPEC-22) on 26th Feb 2022. Conducted a Case Discussion on "COPD patient for lap cholecystectomy".

Dr. Asha Tyagi

Patient with Kyphoscoliosis for Corrective Spine surgery. In: Anaesthesia Postgraduate Pre-Examination Course (APPEC-22); Online platform; Organised by ABVIMS and Dr. RML Hospital, Delhi; 26th Feb-4th March, 2022. (Case Discussion).

IAP greater than 12 mmHg is Intraabdominal hypertension. In: Myths and Half-truths Decrypted. Organised by: ISA Delhi Chapter; held on 26th February 2022 (Lecture).

Virtual Reality in Anesthesia: The way forward. In: 12th National and 2nd International Conference of ICA; Organised by Maulana Azad Medical College and LNH, Delhi; 17th -19th December 2021 (Lecture).



Weaning from mechanical ventilation. In: 12th National and 2nd International Conference of ICA; Organised by Maulana Azad Medical College and LNH, Delhi; 17th -19th December 2021 (Workshop).

Never Events in Anesthesia. In: 60th Annual Conference of the Indian Society of Anaesthesiologists (Delhi Branch); Online platform; Organised by VMMC and Safdarjung hospital, Delhi; 15th -17th October 2021. (Online lecture).

Dr. Geetanjali T Chilkoti

Lecture on “Perioperative blood management” in CME on “Myths and Half-truths decrypted in Anaesthesia and Pain Medicine: A metaverse”, UCMS and GTB Hospital, Delhi 26th February 2022.

Faculty at MAMC Anaesthesia update from 1st–5th Feb 2022 – Conducted “Case discussion on kyphoscoliosis” on 4th Feb 2022.

Faculty at 2nd International 12th National Conference of the Indian College of Anaesthesiologists, ICACON 2021 from 17th – 19th December 2021. Delivered lecture on “Perioperative blood Management”.

Dr. Rashmi Salhotra

14th National Conference of Association of Obstetric Anaesthesiologists’ India, AOA 2021, Hyderabad (Hybrid) 23rd to 25th September 2021.

“National CME cum workshop on New Clinical Trial Rule 2019. Good Clinical Practices and IEC”, Jammu (online) 4th Sept 2021.

60th Annual Conference of ISACON Delhi Chapter from organised by VMMC and SJH, Delhi 15th - 17th October 2021.

CME on AMSP: The solution for AMR Menace, UCMS, Delhi 18th November 2021.

68th Annual Conference of Indian Society of Anaesthesiologists (ISACON), Ahmedabad (hybrid) 25th -28th November 2021.

CME on “Oxygen: Use me judiciously, I am precious” Dehradun (online) 22nd January 2022.

CME on “Myths and Half-truths decrypted in Anaesthesia and Pain Medicine: A metaverse”, UCMS and GTB Hospital, Delhi 26th February 2022.

Invited faculty for Lecture on “Equipment for regional anaesthesia” on 04th March 2022 during the proceedings of APPEC 2022, organized by Dept. of Anaesthesiology, ABVIMS and Dr. RML Hospital, Delhi.

Invited as Faculty for Mechanical Ventilation – Simulation and practical applications workshop during ICACON 2021, 2nd International and 12th National conference of Indian College of Anaesthesiologists organised by MAMC, Delhi from 17th–19th December 2021.

Dr. Ruchi Kapoor

Lecture on Epidural Test Dose: When, what and how much in International conference of Indian College of Anaesthesiologists (ICA) that is ICACON 2021 held at New Delhi in December 2021 where I participated as Faculty. In the same conference I was the co author of a paper presented in the award category which was research paper titled ‘A randomized controlled study for evaluation of intraperitoneal instillation of Ropivacaine with dexmedetomidine versus Ropivacaine with Ketamine for postoperative pain relief following laparoscopic cholecystectomy.

Co-author of the paper presented in ISACON Delhi 2021, state conference of Delhi which was a case report of mucormycosis patient titled ‘No dose is a safe dose- Anaphylaxis due to Amphotercin – B in October 2021 Lecture on Epidural test dose as part of ICA (Indian College of Anaesthesiologists) webinar on intraoperative analgesia on 12th January 2022.

Dr. Michelle Gulbani

Participated in Yuvacon – ISACON Delhi 2021. CME of ISA Delhi branch at UCMS- 26/2/22 with the topic of Myths and half-truths of implications of General Anaesthesia in Obstetric patients.

Dr. Vibhor Gupta,

Took lecture in a CME conducted by ISA Delhi branch (Feb 2022).



Dr. Richa Chauhan

Presented a session “Myths & Facts; Half-truths of Implications of General Anaesthesia for Surgery amongst COVID-19 survivors” as a faculty at ISA Delhi CME, 26 th February 2022.

Poster presentation “A questionnaire-based study to obtain a quick insight into health literacy of patients on COVID-19 associated mucormycosis, predisposing factors, and treatment, in a tertiary care hospital during

COVID-19 pandemic in India” at World Conference on Covid and Critical Care, W4C live on 22nd -24th October 2021.

Faculty Strength

Director Prof.: 03

Prof.: 04

Assistant Prof.: 04

Anaesthesiology (GIPMER)

Brief history

The Department of Anaesthesiology GIPMER provides advanced super-speciality anaesthesia and critical care along with teaching and training. The department was set up way back in 1964 and there has been a tremendous improvement in clinical, academic and research activities under various heads over the years. There are overall six cardiac surgery, six neurosurgery, four gastrosurgery and one liver transplant operation theatres. The department also has fourteen bedded general ICU where patients are given state-of-the-art critical care. Apart from providing anaesthesia to all OTs, the department also runs special clinics like Pain clinic and PAC clinic. It also provides anaesthesia services to psychiatry, for advanced radiological procedures and emergency and intensive care round the clock. The department provides special training including BLS and ACLS to all nursing staff and technicians on a regular basis. There are students in the department pursuing DM Cardiac Anaesthesia and DM Neuro-anesthesia.

Major Activities and Achievements

Dr. Pragati Ganjoo took over as Head of Dept. of Anaesthesiology and Intensive Care, GIPMER on 11.8.2020.

Dr. Pragati Ganjoo is Program Coordinator for on-going Doctorate of National Board (DrNB) Neuroanaesthesiology and Critical Care course, affiliated to The National Board of Examinations (NBE); currently 4 candidates pursuing the course at GIPMER.

Dr. Vishnu Datt is Academic Head for DM Cardiac Anaesthesia, affiliated to DU; intake of one student in 2021; currently, two students are pursuing the program.

Dr. Monica S Tandon-Co-edited a book: Prabhakar H, Tandon M.S., Kapoor I, Mahajan C. Transfusion Practice in Clinical Neurosciences; Singapore: Springer Inc; 1st editon; 2022.

Honours/Distinctions

Dr. V Datt: FIACTA teacher accreditation for Cardiac-thoracic Anaesthesia.

Dr. P Ganjoo: Chairperson Education, Training and Research Committee, Indian Society of Neuroanaesthesiology and Critical Care (ISNACC). Was awarded ‘Certificate of Recognition’ by the Editorial Board of Journal of Neuroanaesthesiology and Critical Care (JNACC) for contribution as Section Editor for the year 2021. Awarded Certificate of Commendation by National Board of Examinations in Medical Sciences for Outstanding Research Work for thesis of



Chayanika Kutum, DrNB Neuroanaesthesia
Candidate AY 2019-22.

Dr. S Virmani: FIACTA teacher accreditation
for Cardiac thoracic Anaesthesia.

Dr. AH Choudhuri: Received Dr. Sarvapalli
Radhakrishnan Distinguished Prof. Award
2021 in Anesthesiology & Incredible
Academicians & Researchers of India 2021.

Publications

Datt V, Wadhwa R, Kumar M, Agarwal S.
(2021). Senning palliation surgery for d-
transposition of great arteries: is there a role
for it? open access., *Clinics in surgery*, 6(2),
3085, 1.

Khurana P, Ganjoo P, Duggal S, Kiro KL,
Dhanwani L, Tandon MS, Singh D, Jagetia A.
(2021). Perioperative practices and outcome
of neurosurgery during the Covid-19
pandemic: institutional experience and
retrospective observational analysis., *Indian
Journal of Neurosurgery*, 1(10), 128-35, 0.

Wadhwa R, Ganjoo P, Ahluwalia P, Singh D.
(2021). Delayed oesophageal perforation
after cervical spine surgery: a lesser-known
devil, *Indian Journal of Clinical Anaesthesia*,
1(8), 144-47, 0.

Singh D, Dutta G, Jagetia A, Singh H, Srivastava
AK, Tandon M, Ganjoo P. (2021).
Microvascular Decompression for Trigeminal
Neuralgia: Experience of a Tertiary Care
Center in India and a Brief Review of
Literature, *Neurology India*, 1(69), 206-212, 0.

Faisal I, Ganjoo P. (2021). Cerebral aneurysm
surgery in a patient with chronic renal failure:
perioperative concerns and
conflicts, *international journal of scientific
research*, 1(10), 58-59, 0.

Tandon MS, Kiro KL, Gupta, P, Singh D. (2021).
Transfusion practice in Jehovahs witness. In
Prabhakar H (ed). Transfusion Practice in
Clinical Neurosciences. 1st editon; Springer
Inc, *book chapter*, 1(1), 11, 0.

Virmani S, Datt V, Joshi CS, Minhas HS,
Satyarthi S, Malik I. (2021). Dexmedetomidine
as an anaesthetic adjunct in patients
undergoing elective off-pump coronary artery
bypass graft surgery., *Anaesthesia and clinical
research*, 2(2), 2-7, 0.

Choudhuri AH, Duggal S, Ahuja B, Biswas PS.
(2021). The efficacy and safety of
hydroxychloroquine (HCQ) in treatment of
COVID-19: a systematic review and meta-
analysis., *Indian journal of medical
microbiology*, 2(39), 159-170, 0.

Choudhuri AH, Duggal S, Singh J, Biswas PS.
(2022). Safety and efficacy of convalescent
plasma as a therapy for SARS-CoV2. A
systematic review and Meta
analysis., *Anaesthesiol Clin Pharmacol*, S1(38),
S22-33, 0.

Choudhuri AH, Ahuja B, Duggal S, Soni KD,
Uppal R. (2021). Etiology and risk factors for
late antibiotic de-escalation and their effect
on intensive care unit outcome. *Indian J Respir
Care*, *Indian journal of Respiratory care*, 1(10),
299-304, 0.

Research Projects

2019-2022, Comparison of effects of
dexmedetomidine-isoflurane combination
with dexmedetomidine-propofol combination
on electrocorticography in patients
undergoing electrocorticography-guided
epilepsy surgery: A prospective, randomized
study. Chayanika Kutum, P Ganjoo, P Khurana.

2019-2022, Efficacy of intranasal
dexmedetomidine as an adjuvant during
transnasal transsphenoidal pituitary tumor
resection surgeries. Uzma Begum Tandon MS,
Kiro KL.

2020-2023, Cardiac output
measurement using trans-esophageal
echocardiography versus thermodilution in
patients undergoing off-pump CABG. Suman
Keshav, Vishnu Datt, Sanjula Virmani.

2020-2023, Comparison of intranasal
dexmedetomidine with intranasal midazolam



for sedation in pediatric neurosurgical patients undergoing magnetic resonance imaging. Rajisth, Tandon MS, Kiran Kiro.

2020-2023, Transthoracic echocardiography-based fluid therapy versus central venous pressure guided fluid therapy in patients undergoing intracranial aneurysmal clipping. Karandeep Singh P Ganjoo, P Khurana, D Singh a Sharma M Gupta,

Patents Filed/Granted

Dr. Anirban Hom Choudhuri: Patent: A system and method for autonomous patient monitoring using deep neural learning. Patent number: 2021106431(Govt. of Australia).

Conferences Organized

Workshop on Mechanical Ventilation, at 12th National and 2nd International Conference of the Indian College of Anaesthesiologists, ICACON 2021, organized by Dept. of Anaesthesia and Intensive Care at GIPMER, 12-12-2021, ICACON, MAMC.

Seminar/Conference Presentations

Dr. Pragati Ganjoo was Chairperson for session on Anesthesia for stereotaxic brain surgery and deep brain stimulation, and Perioperative considerations in traumatic brain injury, at 12th National and 2nd International Conference of the Indian College of Anaesthesiologists, ICACON 2021, organized by MAMC on 18.12.2021, Chairperson for Neurocritical care session at the 3rd Annual Meeting of the NCS Asia Oceanic Chapter 2021, organized by Medanta Hospital on 24th – 26th Sept. 2021.

Dr. Vishnu Datt Delivered a lecture on vasoplegic syndrome after cardiac surgery a challenge in OR and ICU in the annual conference of North Zone Association of Cardiothoracic Anaesthesiologists [NZACTA] at Chandigarh on 16 -17th October 2021, panel discussion at IACTACON 2022 Madurai - Silver Jubilee Annual Conference held at Madurai, Tamil Nadu on 25-27th March 2022.

Dr. Monica S Tandon - Speaker at the 12th National Conference of Indian College of

Anaesthesiologists (ICACON21) organized by Deptt. of Anaesthesiology, LN Hospital, on 18.12.21. Topic: Anaesthesiafor stereotaxic brain surgery and deep brain stimulation and chaired a session at the 3rd Annual Conference of SNCC, conducted from 27.11.21–29.11.21. Topic: “Stroke- Ischemic and hemorrhagic” also chaired a Pro -Con session on “ICP vs CPP targeted management in neurocritical care patients” at 23rd Annual Conference of Indian Society of Neuroanaesthesiology and Critical Care (ISNACC 2022) on 22.01.22.

Dr. Sanjula Virmani Participated as faculty and took a lecture on Congenital Heart Disease – Anaesthetic Concerns in the APPEC 2021 held on 08.02.2021.

Dr. Anirban Hom Choudhuri Delivered talk and conducted workshop on “Crisis resource management & patient safety principles” at DMCH Ludhiana, 5th Dec 2021, Delivered talk on “Non-diabetic endocrine emergencies” at Criticare 2022 at Ahmedabad.

Dr. Rachna Wadhwa-Presented paper and e-poster in the annual conference of Indian Association of Cardiothoracic Anaesthesiologist [IACTACON], 2021 at Madurai from 25th-27th March 2022.

Student under Exchange Program (Inbound/Outbound)

Rotational postings of postgraduate students from MAMC, ESI, Railways hospital in GIPMER for Cardiac Anaesthesia and Neuroanaesthesia training (15 days-1 month).

Other Inter-Institutional Collaboration

Dr. P Ganjoo, Dr. MS Tandon is member of Doctoral Committee for Ph.D. thesis in Neuroanesthesiology, AIIMS Delhi.

Extension and Outreach Activities

Dr. Pragati ganjoo- Service to the community: -Member of Executive committee of MUSKAAN Parent Association for the Care and Empowerment of Individuals with Intellectual Disability and Medical advisor for their Training and Employment Center at Vasant



Kunj, New Delhi-Contributor to health-related welfare of Kashmiri Pandit community migrants in Delhi through Kashmiri samiti. New Delhi.

Faculty Strength
10

Biochemistry (UCMS)

Brief History

The department participated in "In-service Training in Medical Laboratory Technology" Programme. Besides routine biochemical investigations the department manages 24-hour emergency laboratory service. More than 5 lakhs biochemical investigation were performed in routine lab and 2.5 lakhs investigations in emergency lab last year. The major thrust areas of research in the department are biochemistry of plant-derived active principals for diabetes mellitus and atherosclerosis, and environmental biochemistry with reference to Xenobiotic Toxicology. The department has been selected by DST for sanction of grant under FIST Programme. Presently, the department has received the grant-in-aid for projects from ICMR, CPCB and DST. Two students are persuing their MD programme. HPLC, PCR have been procured. The clinical biochemistry section of the department has Beckman Coulter 600 and 800, and Random-Access Immunoassay analyser. Olympus AV400 chemistry analysers, AVL-900 blood gas analyzer, Anthos ELISA Reader and a number of semi-autoanalysers. Apart from routine tests, hormone assays, viz., thyroid fertility, renal stone analysis, tumour markers are done.

Major Activities and Achievements

The Department has made significant progress in undergraduate and post graduate training as well as research. Currently there are 02 MD students. Currently there are three ongoing research projects in the Department of Biochemistry.

Honours/Distinctions

Dr. Rajarshi Kar has been elected Member of the National Academy of Medical Sciences (INDIA) in the year 2022.

Winner of oral paper presentation in the category of Consolation Research in ISAR-DC 2021, organized by Department of pharmacology, School of Medical Sciences and Research, Sharda University, Greater Noida titled "The study of Ischemia Modified Albumin as an early biomarker for diagnosing pre-diabetes in women" in ISARCON – Delhi Chapter 2021, online mode on 1st October 2021. Theme was "Atherosclerosis – Current changes".

Publications

Aslam M, Madhu SV, Keithellakpam K, Mehndiratta M, Mishra, BK, Neh V. (2021). Long term effects of rotational night shift work on expression of circadian genes and its association with postprandial triglyceride levels—A pilot study, *Chronobiology International.*, 38(5), 629-37, 1.

Mehndiratta M, Pasha EH, Chandra N, Almeida EA. (2021). Quality Indicators for Evaluating Errors in the Preanalytical Phase., *Journal of Laboratory Physicians*, 13(2), 168-74, 1.

Gupta, P, Agarwal R, Bhaskaran S, Garg S, Mehndiratta M, Radhakrishnan G, Singh A, Agarwal R, Narang D. (2021). Evaluation of maternal plasma platelet activating factor acetylhydrolase activity and Mrna expression in pre-eclampsia: a case control study, *Journal of Obstetrics and Gynaecology*, 4(41), 2021, 1.

Mehndiratta M, Gupta, B, Kar R, Garg S, Anthonio AE, Kumari R, Suneja A, Puri D. (2021). 25-Hydroxyvitamin D Insufficiency in



Pregnant Indian Women and the Development of Preterm Prelabour Rupture of Membranes., *The Journal of Obstetrics and Gynecology of India*, 71(6), 649-50, 1.

Suneja A, Bansal N, Guleria K, Mehndiratta M, Bhatt S, Tyagi N, Mishra, K. (2021). Role of Human Epididymis Protein 4 for Detection of Ovarian Carcinoma in Adnexal Masses, *Indian Journal of Gynecologic Oncology*, 19(4), 1-7, 1.

Saha D, Mehndiratta M, Shah D, Gupta, P. (2022). Oxidative Stress, Mitochondrial Dysfunction, and Premature Ageing in Severe Acute Malnutrition in Under-Five Children, *Indian journal of pediatrics*, 89(6), 558-62, 0.

Nimesh A, Mehndiratta M, Kar R, Garg S, Puri D. (2021). Teaching Aids in Medical Education: An Integrated Approach over Conventional Methods., *Indian J Med Biochem*, 25(3), 113-117, 0.

Antonio AE, Mehndiratta M, Maroof KA, Kar R, Puri D. (2021). E-learning in the Field of Medical Education: Journey from E-enhancement to Online and Moving towards Hybrid Mode, *Indian J Med Biochem*, 3(25), 118120, 1.

Sakarde A, Takhelmayun R, Garg S, Kushwaha AS. (2021). COVID-19 transmission: a positive perspective., *Hormone Molecular Biology and Clinical Investigation.*, 42(4), 425-428, 0.

Baweja A, Jhamb R, Kumar R, Garg S, Gogoi P. (2021). Clinical utility of Neutrophil Lymphocyte Ratio (NLR) as a marker of Spontaneous Bacterial Peritonitis (SBP) in

patients with cirrhosis-An exploratory study, *International Journal of Science and Research Archive*, 3(2), 31-42, 0.

Research Projects

DHR- MRU, UCMS, New Delhi, 2021/1, Role of APOA-V protein in inflammatory and oxidative pathway: in vitro study, 2.

DHR- MRU, UCMS, New, 2021/1, mRNA expression of regulators of inflammation in Lean and Obese Patients with Type 2 Diabetes Mellitus, 2.

AllIMS, Delhi, 2021/2, Adaptive Immune Responses to Covaxin and Covishield: A comparative study, 10.

Seminar/Conference Presentations

Dr. Shiba participated as speaker in 7th Annual Conference of "Association of Clinical Chemistry and Lab Medicine Practitioners" held on 7th-8th August, 2021 at Gurugram, Haryana.

28th National conference of Association of Medical Biochemists of India in ISAR- DC 2021, organized by Department of pharmacology, School of Medical Sciences and Research, Sharda University, Greater Noida titled "The study of Ischemia Modified Albumin as an early biomarker for diagnosing pre diabetes in women" in ISARCON – Delhi Chapter 2021, online mode on 1st October 2021. Theme was "Atherosclerosis – Current changes".

Faculty Strength

09

Biochemistry (MAMC)

Brief History

The department of Biochemistry was established in late 1960s and it is actively involved in academics, research, and patient care activities. Academic activities of the Department include teaching MBBS, BDS, MD,

B.Sc. Nursing, and other paramedical students. The Clinical Biochemistry laboratory serves patients from Lok Nayak and other Maulana Azad Medical College-affiliated hospitals. We provide laboratory services 24X7, with a test menu of over 75 parameters.



The department also has an established molecular diagnostics laboratory.

Major Activities and Achievements

Total 38 publications during this period.

Books / Chapters

Dr. Binita Goswami authored a book titled- Immunology for MBBS.

Dr. Binita Goswami authored a book titled- Manual of Practical Biochemistry for MBBS.

New Facilities

Diagnostic test HLA- B27 has started from Nov 2021.

Publications

Dubey A, Kotnala G, Mandal T.K, Sonkar S.C, Singh V.K et al. (2021/9). Evidence of the presence of SARS-CoV-2 virus in atmospheric air and surfaces of a dedicated COVID hospital, *Journal of Medical Virology*, 93(9), 5339-5349, 14.

Gupta, A, Sural S, Gupta, A, Rousa S, Koner B.C et al. (2021). Positive QuantiFERON test and the severity of COVID-19 disease: A prospective study, *Indian journal of tuberculosis*, 68(4), 474-480, 3.

Goswami B, Mahajan R, Jain A, Koner B.C (2021/12/29). Team idea mapping method: A brainstorming session for enhancing problem-solving skills in postgraduate medical biochemistry students as assessed by self-efficacy, *Adesh University Journal of Medical Sciences & Research*, 3(2), 74-78, 2.

Garg S, Singh V.K, Sonkar S.C, Kelkar H, Singh S et al. (2022/2/15). Pattern of serum protein capillary electrophoretogram in SARS-CoV-2 infection, *Clinica Chimica Acta*, 527, 11-16, 1.

Sharma R.K, Goswami B, Mandal S.D, Guha A, Willard B at al. (2021/9/1). Quorum Sensing by Gelsolin Regulates Programmed Cell Death 4 Expression and a Density-Dependent Phenotype in Macrophages, *The Journal of Immunology*, 207(5), 1250-1264, 4.

Khurana V, Goswami V. (2022/1/1). Angiotensin converting enzyme (ACE), *Clinica Chimica Acta*, 524(0), 113-122, 4.

Irungbam M, Chitkara A, Singh V.K, Sonkar S.C, Dubey A et al. (2022). Evaluation of Performance of Detection of Immunoglobulin G and Immunoglobulin M Antibody Against Spike Protein of SARS-CoV-2 by a Rapid Kit in a Real-Life Hospital Setting, *Frontiers in Microbiology*, 13.

Garg M, Jain A, Goswami B, Puri M. (2021/9). Interesting Phenomenon of Primer-induced Mutagenesis Seen in Subjects with Respect to PPAR γ Pro12Ala Polymorphism in Polycystic Ovary Syndrome, *Indian Journal of Medical Biochemistry*, 25(3), 111.

Kumari A, Biswas R, Yadav N, Debnath E. (2021/9). Initial and Day Four β -hCG Levels as Predictors of Outcome of Single-dose Methotrexate Therapy in Medical Management of Tubal Ectopic Gestation, *Indian Journal of Medical Biochemistry*, 25(3), 92.

Research Projects

Multidisciplinary Research Unit, 2021, Effect of exposure to Bisphenol A and its analogue plasticizers on production of thyroid hormones in transformed thyroid cell line and on function of thyroid hormone in rat L6 myoblast derived myotubes, 2.5 lakhs.

Multidisciplinary Research Unit, 2021, Association of pesticide exposure with primary infertility., 3 lakhs.

Govt. of Delhi NCT, 2020, Evaluation of genetic susceptibility of vascular endothelial dysfunction in North Indian Females with Pre-eclampsia, 3 lakhs.

Seminar/Conference Presentations

Delivered guest lecture by Dr. B.C. Koner: a. 'Effect of consumption of thermally-altered edible oil on risk of CAD and factors influencing the effect of heating on edible oils.' at 28th Annual National Conference of Association of Medical Biochemists of India



(AMBICON), held at All India Institute of Medical Sciences (AIIMS) Raipur from 2021, December 02, to 2021, December 05.

'Cell culture technique in medical science: current trends and future perspectives' at 7th conference of ACCL, on 28.8.2021 at Gurugram, Haryana.

How to effectively identify lacunae or knowledge gap to initiate medical research" at National E symposium on inculcation of research and innovation at IMS, BHU, Varanasi on 2021, March 20.

Dr. Binita Goswami: a. Delivered Guest lecture on Lab Automation and attended the conference by at 7th conference Annual conference of ACCLMP Medanta Gurgaon July 21.

Guest lecture on Plant extracts and diseases: Cell culture study findings.: AMBICON, 2021.

Dr. Ekta Debnath: a. Dr. Ramesh Sinha Award paper in AMBICON 2021 titled "Association of eNOS promotor region polymorphism T-786C and Its mRNA expression in primary open angle glaucoma".

Presentation in ACCLMPCON 2021 titled "The study of MTHFR (C677) polymorphism in glaucoma"

Faculty Strength

Director Prof.: 03

Prof.: 03

Associate Prof.: 01

Assistant Prof.: 02

Consultant: 01

Biochemistry(LHMC)

Major Activities and Achievements

Four research projects with funding are running under the department of Biochemistry. It includes the following:

Study of genetic polymorphisms and gene expressions of IL-6, IL-10 and TNF-alpha in patients with Type II DM.

Study of clinicoepidemiological profile of the Covid-19 patients admitted in tertiary care hospitals for treatment and management at Delhi.

Effect of common variation in the PCSK9 gene on lipid lowering effect of statins in a North Indian Population.

Establishment of Diagnostic centre DBT-NIDAN-Kendra at Lady Hardinge Medical College.

The department has organised three webinars on Microsoft teams. In integration with the dept. of neonatology, psychiatry a webinar was organised to provide psychological first aid to health care workers of LHMC and associated hospitals during Covid pandemic 2021. Various workshop was organised on

Time and stress management for MBBS students, Revised Basic Course Workshop, Facilitated discussions on Roles of IMG. Apart from this an initial training on concept of "Mass trauma", Psychological first Aid and "Work life balance" was also conducted by the department. In the previous academic session eight papers were published in Indexed National and International journals. The HoD, Dr. Ritu Singh has contributed as Editor-in-chief of SAE of Lippincott Illustrated Reviews of Biochemistry and Dr. Rajeev Goyal as Co-editor.

Publications

Chandra S, Thomas S, Nangia A, Singh R, Pathania O.P. (2021). Association Between Endemic Vitamin D Deficiency in India and High Prevalence of Poor-Prognosis Triple-Negative Breast Cancer: A Cross-Sectional Study, *Indian Journal of Surgery*.

Khandare P, Saluja A, Solanki R.S, Singh R, Vani K et al. (2022). Serum S100B and NSE Levels Correlate with Infarct Size and Bladder-Bowel



Involvement Among Acute Ischemic Stroke Patients., *J Neurosci Rural Pract.*

Goyal R, Bhakhri BK, Goyal JP, Lohiya N, Khadilkar V. (2021). Appropriateness of Lower Waist Circumference Cutoffs for Predicting Derangement in Metabolic Parameters Among Asian Children and Adolescents: A Pilot Study., *Indian pediatrics*, (4), (58).

Agrawal SJ, Goyal R, Singhai M. (2021). Breakthrough Infections and Omicron Variant: Dealing with the Dilemma., *Indian J Med Biochem*, (3), (25).

Samadhiya A, Goyal R. (2020). A Review of Cytokine Storm in COVID-19., *Indian J Med Biochem*, (2), (24).

Goyal R. (2021). Digitalization in Clinical Biochemistry: Need to Prepare for Future., *Indian J Med Biochem*, (1), (25).

Singhai M, Jain R, Jain S, Bala M, Singh S, Goyal R. (2021) Nipah virus disease: recent perspective and One Health approach., *Annals of Global Health*, (1), (87).

Samadhiya A, Goyal R, Singh A, Gupta, SK. (2020). Role of Vitamin D in Covid-19., *Indian J Med Biochem*, 130-133.

Research Projects

DHR, Study of genetic polymorphisms and gene expressions of Interleukin-6, Interleukin-10 and Tumor necrosis factor-alpha in patients with Type 2 Diabetes mellitus-, SRF salary + Rs 50,000/- per year.

National Centre for Disease Control, New Delhi, NA, Study of Clinico-epidemiological profile of the COVID-19 patients admitted in tertiary care hospitals for treatment and management at Delhi, With NCDC.

ICMR, Effect of common variation in the PCSK9 gene on lipid lowering effect of Statins in a North Indian population, 9.05 Lakhs.

Department of Biotechnology, Government of India, Establishment of Diagnostic Center

DBT-NIDAN-Kendra at Lady Hardinge Medical College, With Principal Investigator.

Seminars Organized

Dr. Ritu Singh Director Prof., organized webinar "WORDS HEAL" as founder member of mental health support group and a series of training programs by psychologists for training counsellors in giving mental support, organized webinar "WORDS HEAL" as founder member of mental health support group and a series of training programs by psychologists for training counsellors in giving mental support Core group member and faculty co-ordinator of Mental Health Support group formed in 2021 to provide psychological first aid to health care workers of LHMC & Associated Hospitals during the Covid Pandemic 2021, 2021, October 10.

Dr. Rajeev Goyal, Associate Prof., "Drug Assay & Therapeutic Drug Monitoring", 2021, March 12.

Dr. Rajeev Goyal, Associate Prof., "Liquid Biopsy in cancer management", 2021, November 02.

Dr. Parijat Gogoi, Prof., 'Challenges in the Interpretation of Glycated Hb reports', 2021, February 23.

Seminar/Conference Presentations

Dr. Anju Jain Presidential oration AIIMS, Raipur 28th AMBICON, National conference of Association of Medical Biochemists of India on 2021, December 03, at Raipur.

Dr. Ritu Singh Guest Speaker Topic: Risk Stratification of Unstable Ischemic plaque and recurrence of Myocardial Infarction – A study in North Indian Population AIIMS, Raipur 28th AMBICON, National conference of Association of Medical Biochemists of India on 2021, December 03, at Raipur.

Dr. Preeti Chauhan Oral paper Topic: Application of Sigma metrics for quality assurance in urine chemistry estimation AIIMS, Raipur 28th AMBICON, National conference of Association of Medical



Biochemists of India on, 2021 December 04, at Raipur.

Dr. Preeti Chauhan Oral Paper Topic: Perception of healthcare worker on Diagnostic Importance of Point of Care Testing (POCT) on 3 December 2021. AIIMS, Raipur 28th AMBICON.

Dr. Preeti Chauhan Oral paper Topic: application of sigma metrics for quality assurance in urine microalbumin estimation Sir Ganga Ram Hospital 10th Annual CME of Clinical Biochemistry-2021” organised by Department of Biochemistry, Sir Ganga Ram Hospital and ACBI-Delhi.

Dr. Parijat Gogoi Speaker Topic: Glycated Hb and the challenges in the interpretation of lab reports Department of Biochemistry, LHMC Webinar on ‘Challenges in the Interpretation of Glycated Hb reports’ Microsoft Teams, 2021, October 23.

Dr. Rajeev Goyal Speaker Topic: Liquid biopsy Potentials and challenges Department of

Biochemistry, LHMC International Webinar on “Liquid Biopsy in cancer management”, LHMC, 2021, November 20.

Dr. Aditi Singh Speaker Topic: Techniques in TDM Department of Biochemistry, LHMC Webinar: Drug Assay & Therapeutic Drug Monitoring” Department of Biochemistry, LHMC, on the 2021, March 19.

Dr. Rajeev Goyal Speaker Topic: Pre-analytical variables in Therapeutic drug monitoring Department of Biochemistry, LHMC Webinar: Drug Assay & Therapeutic Drug Monitoring” Department of Biochemistry, LHMC, on the 2021, March 19.

Dr. Smita Tripathi Participant in “Revised Basic Course workshop for teaching faculty” NMC, RC, MAMC 10-12 Feb 2021, Medical education, MAMC.

Community Medicine (UCMS)

Brief History

The Department of Community Medicine, began functioning in 1971, when UCMS with its attached, Safdarjung Hospital was established in South Delhi. With extremely humble beginnings when it comprised of just two faculty members and two non teaching support staff in its initial years, deptt. has grown considerably. Since 1990s, the deptt. adopted urbanised villages Dallupura and Ghazipur in East Delhi as its field practice centres. Deptt. began taking in postgraduate students from the year 1980. The sanctioned intake of postgraduate students has now increased to 11 per year.

Major Activities and Achievements

The department is running two outreach health centres – one urban and another in a rural part of Delhi, for the provision of health

care service to the population as well as training in rural healthcare delivery for the residents and interns. The members of the department were actively involved in the healthcare response to the Covid 19 pandemic during the year.

Honours/Distinctions

Dr. Sanjay Chaturvedi Chief Editor, Indian Journal of Public Health Member-Expert Panel, National Health Authority Member-COVID-19 Vaccine Core Group, National AEFI Committee.

Dr. S.K. Bhasin Worked as University Head, Department of Community Medicine, FMSC, Delhi University.



Publications

Mohandas A, Bhasin S.K., Upadhyay M., Madhu, S.V. (2022). A Cross Sectional Study on Compliance to Diet Self Care among Adult Diabetics in an Urban Resettlement Colony of East Delhi, *Int J Nutr Sci*, 1(7), 26-33.

Gohel K, Chhabra P, Madhu SV, Mody P, Pujari S. (2021). Prevalence and risk factors associated with gestational diabetes mellitus in urbanised villages of East Delhi, *International Journal of Community Medicine and Public Health*, 4(8), 1650-55.

Maroof K.A, Chhabra P. (2021). Strategies to Improve Maternal, Infant and Young Child Nutrition under POSHAN Abhiyaan by Involvement of Community Medicine Departments of Medical Colleges in India, *Healthline Journal*, 3(12), 03-06.

Chhabra P, Gupta, A, Thakur N. (2021). Complementary feeding practices and nutritional status of children (6–23 months) in an urban resettlement colony of East Delhi, *Indian J Community Medicine*, 3(46), 528-32.

Gautam R, Rajoura OP, Sharma AK, Rajpal, Bhatia MS. (2022). Sociodemographic features and quality of life post burn injury, *J Family Med Prim Care*, 3(11), 1032-35.

Agarwal A; Kumar P; Mathur SB; Khan AM. (2021). Estimating the Volume of Equine Rabies Immunoglobulin (eRIG) Required for Local Infiltration in Soft Tissue Animal Bites in Children Using a Wound Size-Based Approach, *Journal of Tropical Pediatrics*, 4(67).

Majhi N, Maroof KA, Sharma AK, Shah D. (2021). Maternity leave access and breastfeeding practices among working mothers in an urban residential area of East Delhi, *Indian J Community Med*, 3(46), 537-540.

Mathew JL; Khan AM; Chandra J; Gupta, V. (2021). Cross-sectional Study to Identify the Range of Hemoglobin Levels in Normal

Infants, Children, and Adolescents in India, *Indian Pediatr*, 8(58), 786–792.

Kapoor A, Upadhyay MK, Saini NK. (2022). Relationship of eating behavior and self esteem with body image perception and other

factors among female college students of University of Delhi, *Journal of Education and Health Promotion*, (11), 80-87.

Thakur N, Chhabra P. (2021). Trends in abortion services and sociodemographic profile of women those availed abortion services at Parivar Seva clinics in India, *International Journal of Community Medicine and Public Health*, 5(8), 2272-78.

Research Projects

Office of the Principal Scientific Advisor to the Govt. of India, routed through the Indian Institute of Technology, Delhi, Feb. 2021 to Feb. 2022, Industrial stakeholders' engagement in air pollution control in Delhi- a behavioral change communication-based approach.

Seminar/Conference Presentations

Dr. Pragti Chhabra

Chairperson for session on Pre-Exposure Prophylaxis at National CME on Rabies Prevention: an update organized by Medical Education Unit and Department of Community Medicine, UCMS under the aegis of IAPSM and Consortium Against Rabies held online on 2021, September 27 at 2 pm.

Panelist for Panel discussion on 'Maternal, Infant, and Young Child Nutrition in Health Professions' Curriculum and beyond': IAPSMCON 2022 (ONLINE Mode) at 49th Annual National Conference of the Indian Association of Preventive and Social Medicine 23rd Joint IAPSM & IPHA Conference, Maharashtra Chapter 2022 on 5th March 2022.

National Webinar on IAPSM Advisory on Menstrual Health and Hygiene Management organized by Academia e Connect on 13th March 2022.



www.youtube.com/c/iapsmeconnect

Dr. M.K. Upadhyay 65th Annual National Conference (Online) of Indian Public Health Association organized by JIPMER, Pudducherry: 23rd Sept. to 26th Sept, 2021.

Extension and Outreach Activities

Dr. Pragti Chhabra

Delivered talk on 'Contraception and Birth Control Methods at Community Connect Initiative' organized by Department of Community Medicine, UCMS and GTB Hospital, and ICDS Wazirabad, Kardam Puri and Karawal Nagar projects Delhi on 15th July 2021 for ICDS supervisors, Anganwadi workers and mothers via Microsoft Teams. Organized World Breastfeeding week from 2nd to 7th August 2021 as Health talks, lectures, film shows, skits at UHTC and RHTC and online symposia.

Organized and moderated Public Health lecture on Mental health on 9th October 2021 under the aegis of Public Awareness Forum, University College of Medical Sciences and GTB Hospital, Delhi

Organized and panelist for Public Health lecture on Cancers in women and men on 13th November 2021 under the aegis of Public Awareness Forum, University College of Medical Sciences and GTB Hospital, Delhi.

Dr. M.K. Upadhyay

In capacity of the Faculty In-charge of the rural health centre involved in setting up of new outreach health centre in village Singhola and organizing several health talks for the local community at Singhola in addition to providing primary healthcare to the community.

Faculty Strength

09

Community Medicine (MAMC)

Brief history

The department not only contributes to the teaching of undergraduate and postgraduate students in an exemplary medical college, the faculty also provides their valuable services to DNB, NMC, Number of universities, ICMR, UGC, UPSC, Other state public service commissions, DBT, NIPPCD, NCDC, MoHFW and other committees.

Major Activities and Achievements

Faculty contributed 19 chapters in different books as authors.

183 publications in various journals.

36 MD thesis completed.

Ph.D. thesis – Two completed.

24 workshops/Seminars organised in the department.

A State AEFI Technical collaboration centre was established in Department of Community Medicine, MAMC in 2021.

Research Projects

National Institute of Health Research, United Kingdom, 2019-Continuing, Addressing Smokeless Tobacco and building Research Capacity in South Asia (ASTRA)., Rs 1.14 Crore
Biotechnology Industry Research Assistance Council (BIRAC), 2020-Continuing, The development of a Health and demographic surveillance site with focus on epidemiological survey of Dengue and Chikungunya in an urban resettlement colony and slum in Delhi, Rs 1.67 Crores

World NCD Federation, 2020-2022, Use of mHealth Technology for Modification of Behavioural Risk Factors of Non-Communicable Diseases in Primary Healthcare Settings: Effectiveness and Feasibility in South East Asian Region Countries – A Systematic Review and Meta-Analysis.

DSHM, 2020-Continuing, Assessment of Home-Based Newborn Care (HBNC) for



Competency and Operational Ease in the Setting of Delhi, Rs 16 Lakhs.

MAMTA, 2021 - Continuing, Assessment of knowledge regarding Rashtriya Kishor Swasthya Karyakram (RKSK) among Adolescents and challenges and opportunities

for implementation of Programme in Delhi, No funding, Technical support.

Faculty Strength

09

Dermatology, Venereology & Leprosy (LHMC)

Brief History

The Lady Hardinge Medical College for women was founded in 1914 to commemorate the visit of Her Majesty Queen Mary in 1911-12. Lady Hardinge the wife of the then Viceroy was the first to take initiative for starting a medical college for women, as the lack of separate medical college for women made it almost impossible for Indian women to study medicine. The foundation stone of this institution was laid by Lady Hardinge on 17th March, 1914. Presently LHMC is admitting 142 PG candidates, 4 seats of MCH Pediatric Surgery and 4 seats of DM Neonatology.

Major Activities and Achievements

Department had conducted series of webinars on various topics during the year 2021-2022. Department had released IEC material for common dermatological conditions as Oculocutaneous Albinism, Leprosy and STIs. Department had organized Nukkad Nataks on awareness on Leprosy (organized in Kalyanpuri, UHC) and HIV & STIs. Department had provided patient care for Covid-19 patients by doing duties in the covid ward, flu clinics, vaccination centres as well as control room Postgraduate and undergraduate teaching continued on virtual platform during the pandemic. Patient care in the specialty did not suffer even during the peak of pandemic as department had run regular teleconsultation services.

Honours/Distinctions

ICMR Lala Ram Chand Kandhari award was given to Dr. Rashmi Sarkar in 2022 for Excellence in Dermatology and Venereology.

Volunteer of the year award 2022 bestowed to Dr. Rashmi Sarkar from Women's Dermatologic Society at Annual American Academy of Dermatology 2022 meeting at Boston on 27th March 2022.

Rashi Pangti was selected for the IADVL (Indian Academy of Dermatologists, Venereologists and Leprologists) Leadership Pipeline Program, 2022 and the IADVL Guruderma (Mentorship) Program, 2022.

Dr. Damini Verma and Dr. Akanksha Aggarwal secured 3rd prize in state level IADVL GSK National Quiz Program for post graduate.

Dr. Damini Verma has been awarded the 2nd prize for her e-poster at the virtual national medical trichology CME.

Dr. Akanksha Aggarwal has been awarded the 3rd prize for her e-poster at the virtual national medical trichology CME.

Dr. Damini Verma, Dr. Akanksha Aggarwal, Dr. Sonika Soni, Dr. Aishwarya Dua and Dr. Apoorva V Bhardwaj have presented e-posters during the 50th national conference of IADVL held virtually from 4th to 6th February, 2022.

Publications

Das S, Chander R, Garg T, Mendiratta V, Singh R, Sanke S. (2022). Cardiovascular risk markers



in premature canities, *Indian J Dermatol Venereol Leprol*, 30(0), 1-5.

Maheshwari A, Garg T, Chander R, Debnath E. (2022). Chronic Spontaneous Urticaria: An Etiopathogenic Study, *Indian J Dermatol*, 67(1), 92.

Sarkar R, Bhargava S, Mendiratta V. (2021). Virology and Etiopathogenesis of COVID-19 with Special Reference to Cutaneous Implications, *Indian J Dermatol*, 66(3), 231-236.

Mendiratta V, Yadav A, Yadav J, Singh S, Suman N. (2021). Multiple Scalp Tumors in Juvenile Hyaline Fibromatosis with Antxr-2 Mutation in a Family, *Indian J Dermatol*, 66(3), 330.

Garg T, Kumar P, Das S, Singh S, Madan S. (2021). Lichen Scrofulosorum Coexisting with Phlyctenular Keratoconjunctivitis: Dermoscopy and Ocular Findings, *Indian Dermatol Online J*, 12(6), 941-943.

Ahmed ZH, Agarwal K, Sarkar R. (2021). Hand Dermatitis: A Comprehensive Review with Special Emphasis on COVID-19 Pandemic., *Indian J Dermatol*, 66(5), 508-519.

Mendiratta V, Yadav D, Senapati D, Agarwal S. (2022). Non-ulcerative Variant of Erythema Induratum of Bazin in an Indian Female, *Indian J Dermatol*, 67(1), 95.

Garg T, Samudrala S, Singh V, Agarwal S. (2021). Lymphadenitis and Lichen scrofulosorum following bacille Calmette-guerin vaccination in an infant, *Indian J Paed Dermatol*, 22(2), 181.

Bansal A, Sarkar R. (2021). Women in Dermatology Leadership: Results from a Nationwide Survey, *Indian Dermatol Online J*, 12(6), 834-840.

Sarkar R, Gupta, M. (2022). Platelet-Rich Plasma in Melasma-A Systematic Review. *Dermatol Surg*. 1;48(1):131-134., *Dermatol Surg*, 48(1), 131-134.

Research Projects

2022, 1. A study of lepra reactions from north India in tertiary care hospital – retrospective study.

2022, 6. Clinico-epidemiological profile of Lichen Striatus in children: experience from a tertiary care hospital.

2021-2022, 4. Assessment of frequency of thyroid autoimmunity in children having atopic dermatitis.

2021, 1. Profile of Sexually transmitted infections in elderly Indian patients- A record based study.

Seminars Organized

Dr. Sneha Sonker, Senior resident, Tofacitinib, CME, 10-08-2021.

Dr. Apoorva Maheshwari, Senior resident, Apremilast, CME, 24-08-2021.

Dr. Deepika Yadav, Senior resident, Sunscreen, CME, 28-10-2021.

Dr. Deepika Yadav, Senior resident, Moisturiser in acne management, CME, 18-11-2021.

Dr. Amit Meena, Senior resident, ELOVERA PRO, CME, 24-01-2022.

Conferences Organized

National PG update, Dermatology, North and south zone, 21-11-2021.

Oculocutaneous Albinism, 13-06-2021.

Pediatric Dermatology - Recent advances in childhood psoriasis, 09-10-2021.

Sexually transmitted infections: updates and challenges, 01-12-2021.

Vittartha PG conference, 22-12-2021.

Seminar/Conference Presentations

Dr. Vibhu Mendiratta Dr. Taru Garg Dr. Rashmi Sarkar Oculocutaneous Albinism Dr. Vibhu Mendiratta (speaker)- OCA – Indian perspective Dr. Taru Garg (Speaker)- Psychosocial concerns in OCA Dr. Rashmi Sarkar (Speaker) Cutaneous manifestations



and challenges LHMC, New Delhi Webinar, 2021, June 13, LHMC.

Dr. Taru Garg Panelist – Pruritus in Pregnancy Wodecon Virtual platform, 2021, July 17-18.

Dr. Vibhu Mendiratta Dr. Taru Garg Dr. Rashmi Sarkar Pediatric Dermatology Dr. Vibhu Mendiratta (Organising chairperson) Speaker-Recent advances in childhood psoriasis. Dr. Rashmi Sarkar (Organising Secretary) Dr. Taru Garg (Member Organising committee) LHMC, New Delhi CME, 2021, October 9.

Dr. Rashmi Sarkar Speaker- Update on rosacea IADVL, Karnataka Mid Dermacon, Mangalore, 28-30 October.

Dr. Vibhu Mendiratta Dr. Rashmi Sarkar Dr. Taru Garg Scientific Chairperson Speaker: Bullous disorders Organizing chairman and course director Speaker: How to cope up with stress during residency? Scientific Secretary Speaker: Café au lait macules and facial angiofibromas LHMC, New Delhi and YMC, Mangalore National PG update, Dermatology, North and south Zone, 2021, November 20-21.

Dr. Vibhu Mendiratta, Dr. Taru Garg Sexually transmitted infections: updates and challenges Dr. Vibhu Mendiratta (speaker)-Management of vaginal discharge: Challenges? Dr. Taru Garg (Moderator for panel discussion)- STIs in special populations/situations/ scenarios. LHMC, New Delhi Webinar, 1 December, 2021, LHMC Dr. Taru Garg Speaker- occupational pre and post exposure prophylaxis in HIV IADVL – Gujarat State Branch CME, December 1, 2021.

Dr. Taru Garg Chair person on Dermatological Therapy E- Dermacon by IADVL, 2022, February 4-6.

Dr. Vibhu Mendiratta, Dr. Taru Garg Speaker-STIs in Adoloscents Moderator for panel discussion on challenges in current diagnosis & management in STIs-an interspeciality perspective. LHMC, New Delhi Webinar, 2022, February 14.

Dr. Rashmi Srakar Invited Faculty Speaker – Certification of Dematology clinics E-Dermacon Jaipur, 6th to 8th February, 2022 Dr. Rashmi Sarkar Invited Speaker – Delphi consensus on ADMH Pigmentarycon 2022, March 4-6.

Dr. Taru Garg Presenter Clinicopathological Conference AIIMS, New Delhi, 2022, March 29.

Dr. Rashmi Sarkar Speaker in two sessions American academy of Dermatology Boston, USA 25th to, 2022, March 27.

Dr. Rashmi Sarkar Speaker Topic: Facial pigmentary disorders Virtual International congress of Dermatology Melbourne, 2021, October 10-13.

Dr. Rashmi Sarkar Chairperson – Miscellaneous Session Virtual World Congress of Pediatric Dermatology Edinburgh, 2021, September 21-23.

Faculty Strength

Director Prof.: 03

Prof.: 01

Assistant Prof.: 03

Dermatology (MAMC)

Brief History

The department was first headed by Dr. P.N. Behl in 1962 and subsequently by Dr. Rattan Singh Dr. V.N. Sehgal, Dr. B.M.S. Bedi, Dr. B.S.N. Reddy and Dr. V.K. Garg. Currently, Dr. Bijaylaxmi Sahoo is heading the department

since 2017. The department has a strength of 5 teaching faculty members, 6 senior residents and 15 post graduate residents. The department used to cater around 300-400 patients per day in 2005 which has now increased to approx. 700-1000 patients daily



(maximum 1600). Several special clinics like connective tissue disease, vesicobullous disorders, leprosy, STD, vitiligo, contact dermatitis, psoriasis and paediatric dermatology. In addition, other facilities like dermatosurgery, phototherapy, LASER, patch testing, side labs and chemical peeling have been set up for holistic management of patients.

Major Activities and Achievements

In this novel COVID-19 pandemic, the department has been continuously providing service in the New Special Ward, since LNJP was converted into a COVID-19 designated facility in March 2020. More than 25000 patients were treated during this pandemic, also we were part of vaccination programs and catered to several chronic kidney disease patients during this period.

Both MD and Diploma virtual examination was conducted successfully in the department in July 2021. All the academic activities of the UG and PG students were continued throughout through online mode.

Dr. Bijaylaxmi Sahoo has successfully conducted the IADVL Monthly E-Clinical meeting on 30th October 2021 at MAMC, Delhi, which was attended online by students and prestigious dermatologists from Delhi all over India.

The training was provided to the medical officers (HIV and STD) from IGNOU and PG students of MAIDS. HIV and STD awareness program was organized on 1st December, 2021.

Honours/Distinctions

Dr. Bijaylaxmi Sahoo

Member of the National Academy at Medical Sciences.

Member of the Expert Committee-Tuberculosis.

Expert for the Academic Committee at National Leprosy Conference.

Expert for the Dermatology Education Task Force, IADVL.

Expert Mentor at CODFI vi. Member of Dermatopathology Society of India.

Member of IADVL.

Expert for the Core Committee at RNTCP, MAMC.

Dr. Vineet Relhan

Elected as National Vice President of IADVL, 2022.

Dr. Bhavishya Shetty received 3rd prize in e-poster in Annual cuticon, 2021 and was declared 1st runner up in the zonal round - North zone Torrent Young Scholar Award Dermatology, 2021.

Dr. K D Barman 1. Elected as President DSB, IADVL, 2022

Publications

Anuva Bansal, Vineet Relhan, Bijaylaxmi Sahoo. (2021). Generalized Bullous Fixed Drug Eruption Due to Fluconazole: A Report of Two Cases, *Indian Journal of Drugs in Dermatology*, 7(1), 32-35, 7.

Vineet Relhan, Anuva Bansal, Pallavi Hegde, Bijaylaxmi Sahoo. (2021). Sexually transmitted infections in the elderly: A 6-year retrospective study in a tertiary care hospital in New Delhi., *Indian Journal of STD and AIDS*, 42(2), 144-149, 1.

K D Barman, Aneet Kaur, Suhail, BL Sahoo, Rashmi Sarkar. (2021). ENL Necroticans at a tertiary care centre- A case series., *Indian Journal of Leprosy*, 93(NA), 221-226.

Isha Narang, K D Barman, B; Sahoo, Pramod Lali. (2021). Evaluation of serum levels of zinc and copper in vitiligo and their role in its pathogenesis and treatment, *International Journal of Womens Dermatology*, 8(1), 42-47.

Bikash Chingshubham, Rashmi Sarkar, Vineet Relhan, Sarika Singh. (2022). Role of Platelet-Rich Plasma Therapy as an Adjuvant in Treatment of Melasma, *Dermatologic Surgery*, 48(4), 429-434.

Vineet Relhan, Pallavi Hegde. (2021). Atypical cases of cydnidae pigmentation: Digging deeper through dermoscope, *Indian Journal of Paediatric Dermatology*, 22(4), 356-359, 1.



Pallavi Hegde, Vineet Relhan, Reena Tomar. (2021). IgG4-related disease: a rare case of isolated cutaneous involvement, *Clinical and Experimental Dermatology*, 46(2), 343-345.

Research Projects

Medical Research Unit MAMC, 2021, Correlation of serum IL-6, TGF-beta and STAT3 in dermis with the extent of skin fibrosis (Modified Rodnan Skin Score) in patients of systemic sclerosis, approx 1 lakh.

2021, Study of cutaneous manifestation in COVID -19 patients.

Purchase department, MAMC (thesis grant), 2021, Occupational dermatoses amongst health care workers, Rs. 40,000/-

2021, A study of clinico-dermoscopic pattern of dermatophytic infections in pediatric patients

2021, Assessment of nailfold capillary changes with USB videodermatoscope in psoriasis patients and its association with metabolic syndrome.

Conferences Organized

IADV L monthly e-clinical meeting, 30-10-2021.

10th Onychocon, 13-11-2021.

Seminar/Conference Presentations

Dr. Bijaylaxmi Sahoo i. Guest faculty and judge in "award paper session" in Annual cuticon, DSB, IADV L, 2021 ii. Guest faculty in Mid-cuticon, DSB, IADV L, 2021. iii. Guest faculty in Annual conference, National Dermacon, IADV L, 2021.

Dr. KD Barman

Guest speaker and paper presentation at 16th Annual conference of Society of Dermatologist, Venereologist and Leprologist of Nepal (SODVELONCON 2021).

Dr. Vineet Relhan

Guest speaker in e-Dermacon the 49th National Conference of IADV L held on 5-7th February, 2021.

Guest speaker in 10th Onychocon, The National conference of NSI.

Dr. Kumari Monalisa, Bijaylaxmi Sahoo presented award paper on "Clinico-histopathological analyses of Scleroderma: Pre and post UVA-therapy" at DSI annual conference 2022.

Dr. Kumari Monalisa, SR was panelists in IADV L, Yuva Utsav 2022, "Panel Discussion-Residency blues", 2022.

Dr. Aneet Kaur, PG- Three siblings with familial reactive perforating collagenosis- A case report.

Dr. Rekha Yadav, PG- Isolated vulvar Syringoma in a postmenopausal female with Estrogen receptor positivity.

Dr. Satendra Kumar PG- Primary cutaneous actinomycosis: a rare entity.

Dr. Bikash Chingshubam, PG. Primary cutaneous aspergillosis in an immunocompetent patient.

Dr. Bhavishya Shetty, PG- Generalised linear porokeratosis rare variant.

Dr. Anjali Bagrodia, PG- Giant cell elastolytic granuloma: an uncommon entity with classical histopathology.

Dr. Bhawna Solanki, PG- Multifocal lupus vulgaris in an immunocompetent patient with histopathologic finding mimicking granulomatous mycosis fungoides.

Other Inter-Institutional Collaboration

Training for Doctors under the PGDHIVM Fellowship Programme, MAMC.

Training for PG students of MAIDS



Dental Sciences (UCMS)

Brief History

The services provided by the Department encompass a plethora of dental treatment modalities such as endodontic therapy, orthodontic correction of irregular teeth and major oral surgical procedures apart from the routine day to day services like tooth extractions, intra-oral radiography, scaling and oral prophylaxis. On the research front, projects have been undertaken on the facial characteristics for thallemic patients, dental characteristics in patients with PapillonLefevre Syndrome, preemptive analgesics in dental surgery and a working module of the day care anaesthesia in pediatrics dental patients. Computerized digital radiography has been setup.

Major Activities and Achievements

Teaching of MBBS undergraduate.
Guiding of MDS (Paedodontics & Preventive Dentistry PG).
Guiding Postgraduate student for Research.
Patient care for adults and children of East Delhi.
Training of Junior and Senior Resident.

Honours/Distinctions

Dr. Namita Kalra-Fellowship of National Academy of Medical Sciences.
Dr. Rajiv B-Fellowship of National Academy of Medical Sciences.

Publications

Khatri A, Afsal M M, Kalra N, Tyagi R, Kulood M. (2021). Hemodynamic changes in pediatric

dental patients using 2% lignocaine, buffered lignocaine, and 4% articaine in pediatric dental procedures., *J Oral Res A*, 13(1), 81-85, 1.

Khatri A, Sabherwal P, Oberoi SS, Kalra N, Tyagi R, Yangdol P. (2021). Assessment of mental health among dental professionals in North India during COVID-19 global pandemic: A web-based survey., *Journal of Indian Association of Public Health Dentistry*., 19(1), 115, 1.

Tyagi R, Kalra N, Khatri A, Sabherwal P, Yangdol P. (2021). Orofacial manifestations in a child with congenital lamellar ichthyosis: Practical recommendations for dental management, *Int J Pedod Rehabil*, 6(2), 28-30, 1.

Balachandran R, Sennimalai K, Duggal R. (2021). Standardization of Cephalograms Obtained from Various Imaging Systems., *Journal of Indian Orthodontic Society*, 12(1), 5-11, 1.

Research Projects

2021-2022, Evaluation of Hyposis progressive muscle relaxation and guided imagery in combination on anxiety and pain in children.

Faculty Strength

Prof.: 04
Assistant Prof.: 02

Dermatology & Std (UCMS)

Department of Dermatology, Venereology & Leprosy: UCMS (University College of Medical Sciences)

Brief History

The Department of Dermatology and STD, has a 30 bedded in-patient ward and admit a variety of dermatological illnesses including

emergencies. It provides daily OPD services, catering to approximately 700-1000 patients per day (both Old +New). It also runs daily Mycobacterial (Leprosy+ Cutaneous TB) Clinic and STI Clinic, mandated under the respective



National programs. Apart from this, the department is equipped to provide phototherapy, radiofrequency surgery, chemical cautery and various dermatosurgical procedures including Nail surgery. The department has also conducted numerous Conferences, CME's and training programs over the years. The faculty members have also been serving the educational cause through eminent positions in IADVL (Indian Association of Dermatology, Venereology and Leprology) as well as Editorial positions in peer reviewed journals with high impact factor including IJDVL, IDOJ, JCAS, Ind J STD and AIDS etc.

Major Activities and Achievements

The Department was able to ensure the following in this one year Successful adaptation and implementation of Under-Graduate CBME Curriculum for MBBS Batch 2019, as mandated by NMC. This batch completed its Phase 2 posting in 2021.

Designing and implementation of Under-graduate logbook.

Designing and submission of Dermatology Electives for Undergraduates, which will be implemented in 2022-2023.

Successful implementation of online teaching/ hybrid teaching for UG and PG batches during the months that the hospital was completely COVID facility (April-June, 2022).

Successful conduct of formative and summative assessment for PGA Batches The Department managed a 32 bedded COVID HDU (High-Dependency Unit) during the deadly 2nd wave (April-June, 2022).

Honours/Distinctions

Dr. Archana Singal
Staff Cultural Advisor (Since 2016): Student Cultural Society Responsible for dispersions and appropriate utilization of funds during annual Student fest; RIPPLE- the event was conducted online.

Nominated as chairperson of UCMS Golden Jubilee Cultural Committee.

Member of Foundation Course Committee for the new batch of MBBS.

Member coordinator for framing IQAC document for NAAC accreditation.

Member Medical Research Unit, UCMS: have been attending the meeting as and when called for.

Dr. Deepika Pandhi

Chairperson of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) Academy (Jan 2020-February 21). As chairperson initiated the Digital Academy platform and held 146 events.

Convener of the Specialist Board for Dermatology of National Board of Examinations 2020-2022.

In-charge of Dermatology Online teaching of National Board of Examinations 2020-2022.

Member, Dermatology expert group for formulation of Standard Treatment Workflows for management of common skin diseases by Indian Council Medical Research (2018-2022).

Dr. Chander Grover

Founder Secretary, Nail Society of India (w.e.f 2012).

Member, Audit Committee, International Nail Society of India (w.e.f 2019).

Member, UCMS Golden Jubilee Celebrations Souvenir Committee.

Member, IADVL Academy (2021-2022).

Session planner and Coordinator for "Nail Surgery Workshop" during E-DERMACON 2022, organized by IADVL Rajasthan in Jan-Feb, 2022 online.

Session planner and Coordinator for NSI Skill Based CME on Onychoscopy organized by Nail Society of India on 5th June, 2021 online

Session planner and Coordinator for NSI Skill Based CME on Nail Biopsy and Histopathology organized by Nail Society of India and Department of Dermatology and STD, UCMS and GTB Hospital on 3rd July, 2021 online.

Session planner and Coordinator for NSI Skill Based CME on Ingrown Nail Management organized by Nail Society of India on 28th August, 2021 online.



Session planner and Coordinator for NSI Skill Based CME on Nail Fold Capillaroscopy organized by Nail Society of India on 2nd October, 2021.

Session planner and Co-Coordinator for 15th Vittalrtha-PG conference on “Challenging cases in Dermatology” hosted by Department of Dermatology and STD, University College of Medical Sciences and GTB Hospital with DRL on 1st September, 2021 online.

Certificate of Recognition from Govt. of NCT of Delhi for commendable performance in handling COVID-19 pandemic at GTB hospital, Dilshad Garden, Delhi-110095.

Publications

Singal A, Dhir B. (2022). Neonatal purpura fulminans caused by *Acinetobacter baumannii*: Unusual occurrence of three coincident cases., *Indian J Dermatol VenereolLeprol*, 88,132-134.

Singal A, Agrawal S, Gogoi P. (2021). Cutaneous horn overlying verrucous carcinoma on face and its dermoscopic characterization., *Indian J Dermatol VenereolLeprol*., 87(3), 388-390.

Singal A, (2022). Unusual occurrence of nail lichen planus in a child and response to treatment, *Dermatol Ther*, 35(4), e15319.

Singal A, Kaur I, Pandhi D, Gandhi V, Jakhar D, Grover C. (2021). Clinico-epidemiological profile of lichen scrofulosorum: a 22-year, single-center, retrospective study., *Int J Dermatol*, 60(10), 1278-1284.

Grover C, Kharghoria G, Baran R. (2022). Nail lichen planus: A review of clinical presentation, diagnosis and therapy, *Annales de dermatologie et de venerologie*, S0151-9638(22), 00025-4.

Gaurav V, Grover C. (2022). Pseudotumors” in dermatology., *Indian Dermatol Online*, 13(2), 294-301.

Grover C, Daulatabad D. (2022). Topical tretinoin in the treatment of nail

psoriasis., *Indian Dermatol Online J*, 13(1), 126-127.

Gaurav V, Pandhi D*, Kotru M. (2022). Ecchymosis: A Subtle Sign Unmasking Malignancy., *Indian Dermatol Online J*, 13, 262-265.

Arora T, Wadhwa N, Aggarwal D, Pandhi D, Diwaker P, Arora VK. (2022). Evaluation of hTERT Gene Expression and Chromosome 7 Copy Number Variation in Anal Squamous Intra-Epithelial Lesions: A Pilot Study, *J Cytol*, 39, 14-19.

Arora T, Wadhwa N, Pandhi D, Diwaker P, Arora VK. (2021). Transgenders are the most vulnerable amongst individuals engaging in receptive anal intercourse: A cross-sectional study from North India, *J Family Med Prim Care*, 10, 4463-4470.

Research Projects

IADVL, 2021-2023, An open label assessor-blind, phase III 3-arm, multi-centric, randomized controlled study trial to evaluate the immunotherapeutic efficacy of Mycobacterium Indicus Pranni (MIP) vaccine, Bacille Calmette Guerin(BCG) vaccine as an adjunct to chemotherapy in Multibacillary (MB) patients of leprosy, Rs. 56,000/-

Nail Society of India, 2020-2022, Nail changes in patients receiving cancer chemotherapy: a cross-sectional study, 30,000/-

Nail Society of India, 2020-2022, A comparative study to evaluate nail changes in leprosy and diabetic neuropathy by onychoscopy and nail fold capillaroscopy, 30,000/-

Intramural Research Grant, 2019-2021, Evaluation of serum levels of inflammatory cytokines in Nail psoriasis – A cross sectional study, 25,000/-

Nail Society of India, 2019-2021, Evaluation of serum levels of inflammatory cytokines in Nail psoriasis – A cross sectional study, 30,000/-



Seminars Organized

Dr. Deepika Pandhi, Director Prof. Dermatology, IADVL National Research Methodology and How to Publish Workshop, Evening e-workshop on research methodology, 2021, September 08.

Dr. Deepika Pandhi, Director Prof., Acne e-CMEs with state branches, acne awareness, 2022, January 26.

Dr. Deepika Pandhi, Director Prof., Advanced hair Transplant workshops, Hair transplant, 2021, August 11.

Dr. Deepika Pandhi, Director Prof., Eczema and hydration webinars, Atopic dermatitis-Indian management paradigms, 2021, May 09.

Dr. Deepika Pandhi, Director Prof., CME on Dermatological Neglected Tropical Diseases-SAARC Experience, CME on Dermatological Neglected Tropical Diseases- SAARC Experience, 2021, November 28.

Conferences Organized

Clinico-pathological correlation: How Nail Biopsy Helps”, 03-07-2021, Nail Society of India

IADVL National Vitiligo e-symposium on the theme ‘Vitiligo- medical and psychological management’, 27-06-2021, IADVL

Seminar/Conference Presentations

Dr. Archana Singal INTERNATIONAL, World Congress of Paediatric Dermatology 2021 held in Edinburgh on 2021, September 22-25.

Dr. Archana Singal, European Nail Society (ENS) E-Masterclass on 2022, March 09.

Dr. Archana Singal, ‘The International Society for Neglected Tropical Diseases (ISNTD) webinar organized by WHO on 2022, February 16.

Dr. Archana Singal, ‘5th SaudiDerm World Congress and Exhibition for Dermatology,

LASERS and Aesthetic medicine’ held during 2022, January 20-22.

Dr. Deepika Pandhi International, Invited Speaker on “Contact allergy: a review of current problems from a clinical perspective.” during the proceedings of e SODVELONCON 2021-the annual National conference of Society of Dermat-Venero-Leprologist of Nepal, on 2021, September 26.

Dr. Deepika Pandhi, Invited Speaker for “Trichoscopy for Infections and Infestations” during Dubai Derma 2021, on, 2021, July 6-8 online.

Dr. Deepika Pandhi, Invited moderator for case based panel discussion during the proceedings of the National Dermatology-Rheumatology Interface online CME on 2022, March 27.

Dr. Chander Grover International, Invited Faculty for the on-demand session “New insights in diagnosis of Nail Lichen Planus” during the proceedings of AAD VMX (Annual Meeting of the American Academy of Dermatology) 2021, 2021, April 23-25.

Dr. Chander Grover, Invited panelist the Live Session during the Symposium “NAILS” during the proceedings of AAD VMX (Annual Meeting of the American Academy of Dermatology) 2021, 2021, April 23-25.

Dr. Chander Grover National, Invited Faculty on “Management of Leprosy” during National training for Central/ State level implementers organised under National Leprosy Eradication Programme (NLEP) at Hotel Park, Delhi, from, 2022, April 19-22.

Other Inter-Institutional Collaboration

National Conference -GA2LEN Allergy School* Collaboration with GA²LEN stands for Global Allergy and Asthma European Network1. 04.07.2021 and2. 18.07.2021

Faculty Strength

05



Endocrinology (UCMS)

Brief History

Department of Endocrinology is situated in the center for Diabetes, Endocrine and Metabolism which is a 4 storey facility located in the UCMS-GTBH complex. The Centre for Diabetes, Endocrine and Metabolism has been created as a center of excellence to provide super-speciality services in this area.

Major Activities and Achievements

The department was actively involved in care of COVID-19 patients, especially during the second wave in Delhi. Faculty and residents were posted for duty in COVID-19 ICUs. Additionally, the department provided endocrine support to all other departments looking after COVID-19 patients.

Publications

Tawar N, Banerjee BD, Madhu SV, Agrawal V, Gupta, S. (2022). Association of Organochlorine Pesticides with Genetic Markers of Endoplasmic Reticulum Stress in Type 2 Diabetes Mellitus: A Case-Control Study Among the North-Indian Population, *Front Endocrinol (Lausanne)*, 13(ONLINE), 841463.

Deepa M, Anjana RM, Unnikrishnan R, Pradeepa R, Das AK, Madhu SV, Rao PV, Joshi S, Saboo B, Kumar A, Bhansali A, Gupta, A, Bajaj S, Elangovan N, Venkatesan U, Subashini R, Kaur T, Dhaliwal RS, Tandon N, Mohan V. ICMR– INDIAB Collaborative Study Group. (2022). Variations in glycosylated haemoglobin with age among individuals with normal glucose tolerance: Implications for diagnosis and treatment-Results from the ICMR-INDIAB population-based study (INDIAB-12), *Acta Diabetol*, 59(2), 225-232.

Mishra, BK, Madhu SV, Aslam M, Agarwal V, Banerjee BD. (2021). Adipose tissue expression of UCP1 and PRDM16 genes and their association with postprandial triglyceride metabolism and glucose

intolerance, *Diabetes Res Clin Pract*, 182(ONLINE), 109115.

Yadav R, Jain N, Raizada N, Jhamb R, Rohatgi J, Madhu SV. (2021). Prevalence of diabetes related vascular complications in subjects with normal glucose tolerance, prediabetes, newly detected diabetes and known diabetes, *Diabetes MetabSynDr*. 15(5), 102226., 3.

M Aslam, Madhu SV, K K Sharma Arun K Sharma V Galav. (2021). Hyperleptinaemia and its Association with Postprandial Hypertriglyceridemia and Glucose Intolerance., *Indian J Endocrinol Metab*, 25(5), 443-445.

Dewan P, Saluja R, Gomber S, Madhu SV, Suchi, Gupta, P. (2021). Low Dose Depot Oral Vitamin D3 Versus Daily Oral Vitamin D3 for Treating Nutritional Rickets: A Randomized Clinical Trial, *Br J Nutr*, (ONLINE), 1-6, 1.

Das S, Rastogi A, Harikumar KVS, Dutta D, Sahay R, Kalra S, Ghosh S, Gupta, SK, Pandit K, Jabbar PK, Damodaran S, Nagesh VS, Sheikh S, Madhu SV, Bantwal G. (2021). Considerations in Steroid-Related Hyperglycemia in COVID-19: A Position Statement from the Endocrine Society of India, *Indian J Endocrinol Metab*, 25(1), 4-11, 1.

Gohel K, Chhabra P, Madhu SV, Mody P, Pujari S. (2021). Prevalence and risk factors associated with gestational diabetes mellitus in urbanised villages of East Delhi., *Int J Community Med Public Health*, 8(1), 1-6.

Tawar N, Banerjee BD, Mishra, BK, Sharma T, Tyagi S, Madhu SV, Agarwal V, Gupta,. (2021). Adipose Tissue Levels of DDT as Risk Factor for Obesity and Type 2 Diabetes Mellitus, *Indian J Endocrinol Metab*, 25(2), 160-165, 2.

Saboo, B., Agarwal, S., Makkar, B.M., Chawla, R., Ghosh, S., Viswanathan, V., Gupta, S.,



Kumar C.V., Maheshwari, A., Sreenivasamurthy, L., Sahay, R.K., Reddy, S., Jaggi, S., Sharma J.K., Panikar, V., Moses, A., Bhattacharjee, B., Jethwani, P., Bhandari, S., Sawhney, J.P.S., Joshi, S., Ray, S., Madhu, S.V., Sethi. (2022). RSSDI consensus recommendations for dyslipidemia management in diabetes mellitus (2022), *nt J Diabetes Dev Ctries*, 42(ONLINE), 3-28.

Research Projects

ICMR, 2021/3 years, Young Diabetes Registry Cohort Phase III, Rs. 1,29,51,708/-

Faculty Strength

03

Forensic Medicine (MAMC)

Brief History

This department has been involved in academics and medicolegal work for years now. We conduct classes for both under graduate students and post graduate students.

Major Activities and Achievements

The Department conducted 497 postmortem examinations and 59 MLCs including potency and age estimation cases. The faculty members are involved in academics and are appointed as examiners in prestigious institutes around the country. The faculty members are nominated by the Government, CBI as chairman/board members in sensitive cases and are included as part of policy making boards by the government. The Departmental mortuary was still handling the COVID cases as the associated Lok Nayak Hospital was designated as an exclusive COVID Centre and for management of the dead bodies during the pandemic, the arrangements had to be made to accommodate the increased number of dead bodies, especially during both the second wave when they were plenty. This required up-gradation of existing facilities, collaboration with the hospital staff, burial and cremation grounds. SOPs were formulated by the HOD along with faculty. The ambulance services and staff were increased to handle the crisis. Round the clock mortuary services was offered to the public. 2518 dead bodies (covid positive and non covid cases) were handled by the mortuary of the department. Postmortem examination on

MLC deaths of suspected and COVID positive dead bodies were routinely conducted using all safety and precautionary measures.

Publications

Dr. Dhiraj Buchade and Dr. Upender Kishore. (2021). Analysis of firearm deaths from Central Delhi region - A 6-year retrospective study, *JIAFM*, (1), (43), 47-50.

Research Projects

2020-21, Immunohistochemistry and Histopathological Study of Wound Vitality in Ligature Neck Compression.

2020-22, Estimation of Age in the Living by Using Kvaal's Dental Method-A Radiological Study.

2021-22, Estimation of Stature from Anthropometric Measurements of Hand and Foot in young adults.

2021-22, Morphometry of Hyoid bone for Sex Determination at Autopsy.

2021-22, Fingerprints Patterns, Types and Distribution in Young Adults.

Seminar/Conference Presentations

Dr. Sreenivas M and Dr. Amandeep Kaur attended the online Workshop on Mental Health and Forensic Science in collaboration with National Law University, Delhi for CMMs/ACMMs/MMs/ (1/4th of the total strength) and other Stakeholders on, 2021, September 18.



Dr. Sreenivas attended the online workshop for FAA (First appellate authority), conducted by ISTM, JNU Campus.

Dr. Amandeep Kaur attended the online in-house training and Hands on training for management of Covid-19 patients in hospitals in Auditorium, MAMC as Departmental Coordinator for post graduates.

Dr. Amandeep Kaur attended the online CME on Toxicology & Radiology: An update in Current Medical Education, on September 15th, 2021, organized by Department of Forensic Medicine and Toxicology, Kasturba Medical College, Mangaluru in association with Indian Society of Toxicology.

Dr. Amandeep Kaur attended the Virtual National CME on Assault on Health care workers: Ways to overcome, organized by the Department of Forensic Medicine and Toxicology, AIIMS, Bibinagar, Hyderabad, Telangana on 2021, July 01.

Dr. Amandeep Kaur attended the online National CME on Medical Negligence: Bridging the gap between Knowing and Doing, organized by Department of Forensic Medicine and Toxicology, SCB, Medical College and hospital, Cuttack, Odisha on 2021, July 10.

Dr. Amandeep Kaur attended the online E-CME on Pathogenesis in COVID-19 fatalities: under the lens of Forensic Medicine organized by Department of Forensic Medicine, Pondicherry Institute of Medical Sciences, Puducherry, on 2021, September 03.

Dr. Dhiraj D Buchade chaired / moderated a scientific session during the “forensicon 2020” organized by the Dept. Of Forensic Medicine, T. N. Medical college & BYL Nair Ch. Hospital, Mumbai on 2021, April 11

Dr. Dhiraj D Buchade attended the online CME on “Drug Abuse: An Insight to a Never-Ending Challenge”, conducted by Department of Forensic Medicine and Toxicology, AIIMS, Mangalgi on 2021, June 26.

Dr. Dhiraj D Buchade attended the online CME on “Legalities in Medical Practice during COVID Pandemic”, organized by by the Department of Forensic Medicine and Toxicology, AIIMS, Nagpur on 2021, May 19.

Other Inter-Institutional Collaboration

Students of MAIDS were posted for their Forensic Medicine training.

Faculty Strength

04

Microbiology (MAMC)

Brief History

The Department of Microbiology at Maulana Azad Medical College is at the forefront of teaching the principles of Microbiology to Undergraduate (MBBS, BDS, B.Sc. Nursing), and Postgraduate (MD).

MBBS students get adequate exposure through lectures, practical demonstrations, micro-teaching sessions, hands-on practical sessions, as per the guidelines issued by DU and MCI. The department has successfully implemented the revised Competency Based

Medical Education curriculum of National Medical Commission.

Major Activities and Achievements

Department of Microbiology has been designated as State Malaria Viral Laboratory, and Coordinator of State Antimicrobial Resistance Surveillance Network.

Department of Microbiology has been testing for SARS CoV-2 since March 2020. In 2021, the department tested more than 55,000 samples for COVID-19 by RT-PCR. An advanced BSL-2



level Laboratory was set up along with establishment of Molecular laboratory with all the facilities for performance of RT-PCR tests.

The department attained 98% concordance in Microbiology External Quality Assessment Scheme (EQAS) for various serological assays, conducted by Department of Clinical Microbiology and Immunology, Sir Ganga Ram Hospital, New Delhi, under the aegis of Indian Association of Medical Microbiology.

The HIV laboratory is the only laboratory in the MAMC complex which is NABL accredited. The HIV laboratory attained 100% concordance in External Quality Assessment Scheme for HIV Serology conducted by National Reference Laboratory for HIV, Centre for AIDS & Related Diseases, National Centre for Disease Control, Delhi and in EQAS for CD4+ T-Lymphocyte Enumeration conducted by National AIDS Research Institute, Indian Council of Medical Research under the aegis of National AIDS Control Organization.

STD Laboratory attained satisfactory performance in EQAS for Syphilis Serology and Gonococcal Antimicrobial Surveillance Programme conducted by Apex regional STD Teaching Training & Research Centre, VMMC & Safdarjung Hospital, New Delhi.

Viral Serology laboratory attained 100% concordance in Dengue IgM and Chikungunya IgM serology External Quality Assessment Scheme, conducted by Resource Centre for Virus Research & Diagnostic Laboratories, National Institute of Virology, Pune.

Honours/Distinctions

Dr. Sonal Saxena, Director Prof. & HoD
Subject expert for starting DNB Lab Medicine by National Board of Examinations, 2021.
Subject expert for post exam review of FMGE, NEET-SS and NEET-PG at NBE, 2021-22.
Member: Technical Committee on AMR, Delhi Govt.
Member: WHO task force committee on formulation and implementation of National Action Plan on AMR.

Technical and Clinical Expert, Scientific Advisory Group (SAG), National Biopharma Mission, Biotechnology Industry Research Assistance Council (BIRAC) Public Sector Undertaking of DBT.

Member, Project Evaluation committee, National Biopharma Mission, Biotechnology Industry.

Subject Expert at Union Public Service Commission.

Dr. Rohit Chawla, Prof.

Laboratory Assessor under the aegis of National Accreditation Board for Testing & Calibration Laboratories (NABL), the audit of various laboratories to ascertain their compliance to the International Standard, ISO 15189:2012-Medical Laboratories:

Requirements for quality and competence.

Assessor under the aegis of National Accreditation Board for Hospitals & Healthcare Providers (NABH), conducted the audit of various healthcare organizations for their compliance to NABH-Pre-Accreditation Entry Level Hospitals & Small healthcare organization standards.

Dr. Prabhav Aggarwal, Associate Prof.

Awarded "Dr. S.R. SenGupta, – Dr. A.M. Saoji Memorial Prize – 2021" for best paper in Immunology for paper titled "Utility of Fecal Calprotectin as biomarker in pediatric acute infectious diarrhea", (co-author) poster presented by Dr. Masson Nathani (Senior Resident, Microbiology) at 44th National Conference of Indian Association of Medical Microbiologists held at Guwahati on 21.12.2021 to 24.12.2021.

Judge for posters presented at 13th Annual Conference of IAMM Delhi Chapter for 'Dr. Ashok Kumar Chakravarti memorial award' on 27.11.2021.

Dr. Oves Siddiqui, Associate Prof.

Worked in genome sequencing of SARS-CoV-2 for the detection of different variants.

Nodal Officer, State Malaria Referral Laboratory.



Publications

Ravi V, Saxena S, Panda PS. (2022). Basic virology of SARS-CoV 2, *Indian Journal of Medical Microbiology*, 40(2), 182-186, 1.

Kumar R, Singh M, Sagar T, Bharanidharan M, Khurana N, Kumar V, Meher R, Malhotra V, Goel R, Saxena S, Kumar J. (2022). Sensitivity of liquid-based cytology in the diagnosis of mucormycosis in COVID-19 treated patients, *Cytopathology*, 33(4), 454-462.

Arora R, Goel R, Singhai M, Gupta, N, Saxena S. (2021). Rabies Antigen Detection in Postmortem Cornea, *Cornea*, 40(5), e10-e11.

Thakur P, Saxena S, Vikas Manchanda V, Rana N, Goel R, Arora R. (2021). Utility of Antigen-Based Rapid Diagnostic Test for Detection of SARS-CoV-2 Virus in Routine Hospital Settings, *Laboratory Medicine*, 52(6), e154-e158, 11.

Saxena S, Kaur R, Randhawa VS. (2021). Changing Pattern of Resistance in Typhoid Fever in An Era of Antimicrobial Resistance: Is It Time to Revisit Treatment Strategies? *Journal of Microbiology and Infectious Diseases*, 11(1), 1-7, 2.

Sharma P, Chawla R, Bakshi R, Saxena S, Basu S, Bharti PK, Dhuria M, Singh SK, Lal P. (2021). Seroprevalence of antibodies to SARS-CoV-2 and predictors of seropositivity among employees of a teaching hospital in New Delhi, India, *Osong Public Health Res Perspect*, 12(2), 88-95.

Arora R, Goel R, Saxena S, Manchanda V, Ahmad M, Gupta, G, Chhabra M, Kumar S, Nguyen TMN, Payden, Pumma P, Saxena K. (2021). Comparative Evaluation of Tears and Nasopharyngeal Swab for SARS-CoV-2 in COVID-19 Dedicated Intensive Care Unit Patients, *Ocular Immunology and Inflammation*, 29(4), 690-696, 1.

Arora R, Goel R, Khanam S, Kumar S, Shah S, Singh S, Chhabra M, Meher R, Khurana N, Sagar T, Kumar S, Garg S, Kumar J, Saxena S, Pant R. (2021). Rhino-Orbito-Cerebral-

Mucormycosis During the COVID-19 Second Wave in 2021 – A Preliminary Report from a Single Hospital, *Clinical Ophthalmology*, 15(-), 3505-3514, 13.

Varghese R, Daniel JL, Neeravi A, Baskar P, Manoharan A, Sundaram B, Manchanda V, Saigal K, Yesudhasan BL, Veeraraghavan B. (2021). Multicentric Analysis of Erythromycin Resistance Determinants in Invasive *Streptococcus pneumoniae*; Associated Serotypes and Sequence Types in India, *Current Microbiology*, 78(-), 3239-3245, 2.

Saxena S, Manchanda V, Sagar T, Nagi N, Siddiqui O, Yadav A, Arora N, Hasan F, Meena K, Bharti P, Rana N, Hayat S, Tuteja S, Yadav A, Puri D, Pumma P, Khyati, Arora A, Jainandra, Shreya S, Kumar S, Sharma N. (2021). Clinical characteristic and epidemiological features of SARS CoV -2 disease patients from a COVID 19 designated Hospital in New Delhi, *Journal of Medical Virology*, 93(-), 2487-2492, 7.

Research Projects

ICMR-DHR, 2021-2022, State Level Viral Disease Research Laboratory, Rs. 6.3 Crore (Rs. 2.971 crore (non-recurring) + Rs. 68 lakhs per year.

Delhi Govt., 2021-2022, Advance Virology program for containment of antimicrobial resistance, Funds: Rs. 1.2 Crore per year.

NCDC-MOHFW, 2021-2022, National program for containment of antimicrobial resistance, Funds: Rs. 10,00,000/- per year + Rs. 6,00,000, non-recurring.

ICMR, 2021-2022, Antimicrobial resistance (AMR) trends and serotype characterization of *Streptococcus pneumoniae* causing Pneumonia and Invasive Pneumococcal Disease (IPD) in Indian children, 150 Lakhs.

Seminars Organized

Dr. C.P. Baveja. Along with Community Medicine Department, Obstetrics and Gynaecology and Dermatology Department., Prof. if Excellence, Department of



Microbiology, MAMC, celebration of World AIDS Day for patients in Dermatology OPD, celebration of World AIDS Day for patients in Dermatology OPD, 2021, December 01.

Dr. Sonal Saxena, Director Prof. and Head, Department of Microbiology, MAMC, Biomedical Waste Management, Biomedical Waste Management, 2022, May 10.

Dr. Rohit Chawla, Prof., Department of Microbiology, MAMC, Biomedical Waste Management, Biomedical Waste Management, 2022, June 06.

Dr. Smita Kaushik, Director Prof., Department of Biochemistry, MAMC, Biomedical Waste Management, Biomedical Waste Management, 2022, April 12.

Conferences Organized

WHONET workshop under aegis of WINSAR-D, 29-11-2021, WHO and IAMM Delhi Chapter Workshop on “Gene Sequencing”, 25-11-2021, IAMM Delhi Chapter

CME on “COVID – 19 from pandemic to vaccine”, 16-03-2021, MAMC

External Quality Assessment Scheme (EQAS) for HIV testing for technicians of linked centre, 02-03-2021, -

External Quality Assessment Scheme (EQAS) for HIV testing for technicians of linked centre, 27-03-2021, -

Seminar/Conference Presentations

Dr. Sonal Saxena Guest Lectures/ Panelist “Effective patient physician communication” in AETCOM (Attitude ETHics and COMMunication) competencies for anesthesiologists: Series 1 organized by ICA (Indian College of Anesthesiologists) on 23rd March 2022 “Communication skills: a crucial yet neglected facet in academic curriculum” Panelist at 4th Elets Diagnostic Leadership Summit on “The evolving facets of Antimicrobial Resistance” 2022, March 23-24.

Facilitator and Delivered talk on “Data Entry & analysis” and on preparation of antibiogram using WHONET” and Troubleshooting in WHONET” at WHONET Training Workshop for

MAHASAR network held in Mumbai on 15-15 March 2022.

“Antimicrobial Resistance: Another long-term consequence of COVID-19” at 1st Quarterly meet of IAMM Delhi Chapter held at ILBS, New Delhi on 2022, April 09.

“Data Analysis” in Preconference workshop on WHONET at 41st MICROCON, Gauhati Medical College, Assam in online mode from 2021, December 21-24.

Dr. C.P. Baveja, Prof. i. Faculty in HISICON Conference to judge Oral Presentations in 2021, held at AMU Aligarh ii. External Subject Expert for recruitment of Senior Residents at AIIMS, Bhuvneshwar on 2021, December 11 in online mode.

Dr. Vikas Manchanda, Prof. Guest Lectures Community deployable Antimicrobial Resistance Diagnostics Solutions at Policy Workshop, IIT Delhi 2022, March 30.

Implementation of NABH Healthcare standards at Program of Implementation of NABH standards 2022, February 11-13.

Implementation of NABH Healthcare standards at Program of Implementation of NABH standards Jan 14-1, 2022.

Infectious Diseases and Climate Change at IAMM Symposium at MICROCON, 2021, December 21-24.

Role of IT and AI in diagnostics at MICROCON 2021, December 21-24.

Dr. Rohit Chawla

A paper entitled “Reproductive tract infections and rubella immunity among attendees of an urban infertility clinic” was presented during MicroDCon-2021.

A paper entitled “Proportion of Syphilis, Hepatitis B and C virus infections among ICTC attendees of a tertiary care hospital” was presented during MicroDCon-2021.



A Poster entitled “Epidemiological profile of Dengue at a tertiary care hospital, Delhi in the years 2019 and 2021” was presented during MICROCON 2021.

As part of Board of Examiners, conducted the University Theory, Viva and Practical Examination during the IIInd MBBS (Annual) Examination in April, 2021.

As part of the Board of Examiners, conducted DNB examination in Microbiology at Mumbai in August September, 2021.

Dr. Prabhav Aggarwal

Presented the antibiogram for MAMC at the WINSAR-D Review Meeting on 16.11.2021 to 17.11.2021 at Manesar, Haryana.

Presented antibiogram and data for AMR surveillance at NARS-NET Annual Review meeting organized by NCDC, March 2022.

Presented poster (Co-author):

At 44th National Conference of Indian Association of Medical Microbiologists held at Guwahati on 21.12.2021 to 24.12.2021 “Clinico-Etiological Study of Acute Diarrhea in pediatric patients”.

“Calprotectin as a fecal biomarker in acute infectious diarrhea in pediatric patients.” At 44th Annual Conference of Indian Association of Medical Microbiologists held at Guwahati on 21.12.2021 to 24.12.2021.

Presented Poster (Co-author) “Clinico-Etiological Study of Acute Diarrhea in pediatric patients” at 13th Annual Conference of IAMM Delhi Chapter on 27.11.2021 at Indian Habitat Centre, Delhi.

Dr. Oves Siddiqui i. Worked in genome sequencing of SARS-CoV-2 for the detection of different variants.

National/International MoUs Signed

Memorandum of Understanding (MoU) was signed between Maulana Azad Medical College, New Delhi and National Centre for

Diseases Control. Maulana Azad Medical College has been identified as one of the labs to be included in the National AMR Surveillance Network in the year 2021-22, with Dr. Sonal Saxena, Director Prof. & HOD Microbiology as nodal officer from Department of Microbiology, while Dr. Prabhav Aggarwal, Associate Prof. as focal point for the same. ii. Evaluating Pneumococcal Conjugate Vaccine (PCV) Impact on Pneumonia and Pneumococcal carriage Outcomes in India in Children 1-35 Months in India - Pneumonia REsearch and VAccine Impact League (PREVAIL) Project. In collaboration of IVAC, JHU, USA funded by Pfizer. (Multi-site project with Project coordinator Dr. Vikas Manchanda

Other Inter-Institutional Collaboration

WHO-IAMM network of Surveillance of Antimicrobial Resistance in Delhi (WINSAR-D) is a voluntary network of 24 laboratories that is coordinated by Dr. Sonal Saxena, HOD Microbiology.

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Extension and Outreach Activities

The Viral Research Disease Laboratory, supported by ICMR at the department is involved in surveillance and detection of viral infections. Zika fever surveillance was conducted by the department in this regard.

Faculty Strength

Prof.: 01
Director Prof.: 01
Prof.: 02
Associate Prof.: 03
Assistant Prof.: 01

Microbiology (UCMS)



Brief History

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.

Major Activities and Achievements

“Clinical interpretation of CLSI M100 guidelines” in CME on “AMSP: The Solution for AMR Menace organized by Department of Microbiology, University College of Medical Sciences, (University of Delhi), Dilshad Garden on 18/11/2021.

“AMSP: The Solution for AMR Menace” organized by Department of Microbiology, University College of Medical Sciences, (University of Delhi), Dilshad Garden on 18/11/2021.

Preconference online Satellite workshop on “Antimicrobial Stewardship in Paediatric Infections” organized by Department of Microbiology, University College of Medical Sciences, (University of Delhi), Dilshad Garden on 25/11/2021.

Celebration of “AMR Awareness Week” in November 2021.

Sharing of antimicrobial susceptibility data with WINSAR-D.

Participated in NIV EQAS for serology of Dengue, Chikungunya and Japanese encephalitis in Sept., 2021, Zika RTPCR surveillance since 2021, ICMR, Covid-19 EQAS with 100% results.

Data entry in NIE portal for hepatitis, dengue, chikangunya, zika and other viral infections.

Preparation of monkey pox surveillance in collaboration of IDSP and VRDL network.

Regular participation in whole genome sequencing of covid-19 samples in collaboration with IDSP.

Regular Training of hand hygiene practice, blood culture technique demonstration in NICU residents & staff (reduced CONS rate approximately 30 to 10%).

Training of healthcare workers in GTB Hospital for care bundle approach for prevention of hospital infection control.

Publications

Saini V, Jain C, Singh NP. (2021). Paradigm shift in antimicrobial resistance pattern of bacterial isolates during the COVID-19 pandemic, *Antibiotics*, 8(10), 954.

Kashyap B, Saha R, Saini V, Grover C, Singh NP. (2021). Utility of a rapid point of care test for screening of syphilis among high-risk and low-risk population at a tertiary care hospital, *Indian Journal of Sexually Transmitted Diseases and AIDS*, 1(42), 83.

S Das C Gupta, C jain, G rai, M AA. alqumber, PK Singh R Sharma A tyagi, R salhotra, S narang, NP. singh . (2022). 2022darUtility of serum Galactomannan in diagnosing COVID-19 patients with suspected IPA: an observational study in resource limited settings, *European Review for Medical and Pharmacological Sciences*, 2(26), 710-714.

Shukla Das Chhavi Gupta,, Naseem Akhter,, Charu Jain, Sidharth Sonthalia, Saif Ahmad and Sajad Ahmad Dar. (2021). COVID-19: Variable Immune Response in Indian Population, *Egypt. Acad. J. Biolog. Sci*, 1(13), 133-147.

Himanshu Shekhar, Naveen Sharma Saurabh Kumar Singh Pankaj Kumar Garg Shuchi Bhatt,



Rumpa Saha, Amit Kumar Verma. (2021). Clinico-radiological profile of the patients with empyema thoracis: A prospective analytical study, *Indian J Tuberc*, 4(68), 491-496.

Rumpa Saha, Alpana Raizada, Pooja Dewan, Kirti Nirmal, Vikas Saini Amir Maroof Khan, Narender Singh Mogha, Shweta Jain, Sunil Gomber, Narender Pal Singh. (2021). Antibody response to SARS-CoV-2 in HIV patients co-infected with COVID-19, *Int J Virol AIDS*, 2(8), 1-8.

Kashyap B, Gupta, N, Dewan P, Hyanki P, Singh NP. (2022). Hypovitaminosis D in pediatric tuberculosis: a clinicomicrobiological study, *Egypt J Chest Dis Tuberc*, 2(71), 9-14.

Jain C, Mukim Y, Das S, Singh N.P. (2022). Rising cases: The potential cause behind the waves, *International Journal of Engineering Applied Sciences and Technology*, 6(12), 165-170.

Kumar S., Nirmal K., Saigal R S. and Indu Bala Garg. (2021). Antibiotic Susceptibility Trends in Blood Culture Isolates over a Period of One Year in a Tertiary Care Center: Hospital Based Study, *Int.J.Curr.Microbiol.App.Sci*, 2(10).

Mukim Y, Nirmal K, Jain C, Das S, Singh NP. (2022). Analysis of bloodstream infections and their antimicrobial susceptibility pattern in a COVID-19 dedicated centre: Six months' hospital-based study, *IP Int J Med Microbiol Trop Dis*, 2(8), 1-5.

Research Projects

ICMR, 2021-2024, Dysregulated pro-inflammatory host immune response among drug resistant and susceptible dermatophytosis patients, Rs. 34 lakhs.

RNTCP, 2020-2022, "CBNAAT cycle threshold value as a potential measure to assess

mycobacterial burden and severity of the clinical disease in pulmonary tuberculosis, Rs. 55,000/-

MRU-DHR, 2021, Single Nucleotide Polymorphism in TLR1, TLR2 & TLR4 and its Association with Susceptibility to Recurrent Vulvovaginal Candidiasis, Rs. 1.2 lakhs.

ICMR, 2021, Clinical Recruitment site for "Strengthening laboratory surveillance for pneumococcal meningitis in India to understand the impact of pneumococcal conjugate vaccine (PCV) rollout".

Seminars Organized

Dr. Charu Jain, Asstt. Prof.

Pre-conference workshop- Antimicrobial Stewardship in Pediatric infection.

Pre-conference workshop- Antimicrobial Stewardship in Pediatric infection, 2021, November 25.

Dr. Nisha Goyal, Asstt. Prof., Antimicrobial Stewardship in Paediatric Infections, Antimicrobial Stewardship in Paediatric Infections, 2021, November 25.

Dr. Shukla Das Dir. Prof., Antimicrobial stewardship program, Antimicrobial stewardship program, 2021, November 26.

Conferences Organized

Antimicrobial awareness week, 26-11-2021. Clinical interpretation of CLSI M100 guidelines, 2021, November 18.

AMSP: The Solution for AMR Menace, 2021, November 11.

Faculty Strength

09



Microbiology (VPCI)

Brief History

Microbiology is one of the original departments that was established in 1953. Dr. de Monte, Dr. N.P Gupta, Prof. Chandrashekhar, Prof. H.S. Randhawa, Prof. AK Prasad, Prof. S.S. Thukral. Prof. Mridula Bose are some of the outstanding Microbiologists who headed this department and contributed richly to the pathogenicity of respiratory bacteria, especially M. tuberculosis, Fungi and viruses. The Dept. of Microbiology consists of three divisions: Microbiology Respiratory Virology and Medical Mycology.

Major Activities and Achievements

Department of Microbiology at VP Chest Institute is actively involved in diagnostics, teaching and research. Several diagnostic tests pertaining to Bacteriology, Anaerobic bacteriology, Mycobacteriology, Virology & Mycology are being carried out. Higher end facilities are available for identifying the pathogens. Research in drug resistance profiling, molecular characterization and typing of bacterial pathogens including M. tuberculosis and newer diagnostic techniques are actively pursued.

The Medical Mycology division is designated as National Reference Laboratory for Antimicrobial Resistance in Fungal Pathogens under National Action Plan of Antimicrobial Resistance (NAP-AMR), MoH&F, Govt. of India.

Virology division is performing basic and translational research on influenza, chikungunya, and dengue viruses. It is a ICMR designated center for the molecular diagnosis of SARS-CoV-2 (COVID-19).

Honours/Distinctions

Prof. Malini Shariff

Designated for serosurveillance of COVID ii. DBT representative in the IB.SC. of Institute of Nuclear Medicine and Allied Sciences and Advanced Genomics Institute and Laboratory medicine pvt Ltd.

Member of Editorial Board of The Indian Journal of Chest Diseases and Allied Sciences. Best poster award for M.D. Students in the Second Chapter Meet of IAMM Delhi Chapter Dr. Jyoti Choudhary & Dr. Malini Shariff.

Prof. Mandira Varma Basil Member Ethics committee, Rajan Babu Institute of Pulmonary medicine and Tuberculosis.

Prof. Madhu Khanna Incharge of center for COVID testing.

Prof. Anuradha Chowdhary

Elected Fellow, International Society of Antimicrobial Agents & Chemotherapy, 2021. Highly cited Researcher by Web of Science/Clarivate 2021 list of the 1% most cited scientists of the past ten years.

The Clinical and Laboratory Standards Institute (CLSI) Antifungal Subcommittee, Advisor, Jan, 2022. 4. Secretary, European Fungal Infection Study Group (EFISG) of European Society of Clinical Microbiology & Infectious Diseases.

Publications

Gupta, S., Shariff, M., Chaturvedi, G., Sharma A., Goel, N., et al. (2021). Comparative analysis of the alveolar microbiome in COPD, ECOPD, Sarcoidosis, and ILD patients to identify respiratory illnesses specific microbial signatures., *Sci Rep*, 11(0), 83524-2, 11.

Arora, P., Singh P., Wang, Y., Yadav, A., Pawar, K. et al. (2021). Environmental isolation of *Candida auris* from the coastal wetlands of Andaman Islands, India., *mBIO*, 12(2), e03181-20., 47.

Gupta, S., Kumar C., Shrivastava, K., Chauhan, V., Singh A et al. (2022). Whole genome sequencing of isoniazid mono resistant clinical isolates of *Mycobacterium tuberculosis* reveals novel genetic polymorphism., *Tuberculosis (Edinb)*, 133(0), 1-9, 2.



Khanna M., Agarwal N., Chandra R., Dhawan, G., (2021). Targeting unfolded protein response: a new horizon for disease control., *Expert reviews in Medicine*, 4(0), 23, 2.

Khurana A., Agarwal N., Singh A., Sardana K., Ghadlinge M., et al. (2021). Predicting a therapeutic cut-off serum level of itraconazole in recalcitrant tinea corporis and cruris- A prospective trial, *Mycoses*, 64(12), 1480-1488, 2.

Rajni E., Singh A., Tarai B., Jain K., Shankar R., et al. (2021). A high frequency of *Candida auris* blood stream infections in COVID-19 patients admitted to intensive care units, North-western India: A case control study., *Open Forum Infectious Diseases*, 8(12), ofab452, 9.

Singh A., Singh P., Dingemans, G., Meis, JF., Chowdhary, A., (2021). Evaluation of DermaGenius resistance real-time polymerase chain reaction for rapid detection of terbinafine-resistant *Trichophyton* species., *Mycoses*, 64(7), 721-726, 5.

Singh A., Singh P., Meis JF., Chowdhary A. (2021). In vitro activity of the novel antifungal Olorofim against dermatophytes and opportunistic moulds including *Penicillium* and *Talaromyces* species., *J Antimicrobial Chemother*, 76(5), 1229-1233, 16.

Yadav, A., Singh A., Wang Y., Van Harem MHI., Singh A., et al. (2021). Colonisation and transmission dynamics of *Candida auris* among chronic respiratory diseases patients hospitalised in a chest hospital, Delhi, India: A comparative analysis of whole genome sequencing and microsatellite typing., *J Fungi (Basel)*, 7(2), 81, 22.

Research Projects

ICMR, 2019-2022, Development of a rapid phenotypic assay to differentiate between *Mycobacterium tuberculosis* and Nontuberculous *Mycobacteria*, 52.

ICMR, 2022-2022, Triple targeting engineered virus: A tool to counter influenza infection, 37.

ICMR, 2021-2023, Exploration of azole resistance in *Candida tropicalis*: Detection of ERG11 gene mutations and azole resistant genotypes, 35.22 (for 2 years).

DST, 2021-2024, Genomic insights of azole and terbinafine resistance in clonal *Trichophyton mentagrophytes/interdigitale* spp. complex causing alarming difficult to treat dermatophytosis in north India, 19.3(2021-22).

MoH & FW, 2021-2022, 3. National programme on AMR containment for National Reference Laboratory for AMR in Fungal Pathogens, 53.

Seminars Organized

Prof. Mandira Varma Basil, Director Prof., "Proposal Writing and Ethical Issues in Biomedical Research, Bio medical research, 2021, March 11.

Seminar/Conference Presentations

Mandira Varma Basil. Biomedical waste management. Faculty Lecture on the occasion of Swatchchta Pakhwada organized by Vallabhbbhai Patel Chest Institute on, 2022, April 13.

Mandira Varma Basil. Nontuberculous *Mycobacteria* – Challenges in Diagnosis and Management. Invited talk at TBCON 2022, organized by PGI Chandigarh, held on, 2022, March 26.

Kamal Shrivastava, Astha Giri, Chanchal Kumar Shradha Gupta, Mandira Varma-Basil. Analysis of PE-PPE gene family: Search for a novel diagnostic target for *M. tuberculosis* complex. E-Poster Presented at The ESM Virtual Congress 2021 (28-29th July), Organised by European Society of Mycobacteriology.

Anupriya Singh Varsha Chauhan, Chanchal Kumar Kamal Shrivastava, Mandira Varma-Basil. Nontuberculous *mycobacteria* isolated



from environmental sources in North Delhi, India. Poster presented at Advanced material for next generation applications on, 2021, September 29 at Galgotias University.

Anmol Guleria, Mandira Varma-Basil. Comparison of an in-house Duplex PCR assay with TB-LAMP and GeneXpert MTB/RIF for identification of *M. tuberculosis* directly in clinical samples. E-Poster presented Presented at Virtual Chapter meeting of IAMM, MICROCON Delhi Chapter on, 2021, October 09 organised by ABVIMS & Dr. Ram Manohar Lohia Hospital.

Rohan Arora, Anupriya Singh Varsha Chauhan, Chanchal Kumar Kamal Shrivastava, Mandira Varma-Basil. Phenotypic and Genotypic characterization of bedaquiline resistance in clinical isolates of *M. tuberculosis* in Delhi. Presented at Delhi Chapters IAMM. E-Poster presented Presented at 12th Annual conference of IAMM, Delhi Chapter 2021 (25th-27th November), Organised by Executive Committee, Indian Association of Medical Microbiologists Delhi Chapter. Varsha Chauhan, Sakshi Anand, Kamal Shrivastava, Chanchal Kumar Anupriya Singh Sanjay Kumar Mandira Varma-Basil. Non-tuberculous mycobacteria isolated from mouthwash samples of healthy individual in Delhi. Poster presented at TBCON-2022 Tuberculosis: A Road toward Elimination. on, 2022, March 25-26.

Dr. Jyoti Choudhary & Dr. Malini Shariff. Characterization of Carbapenem resistance

and biofilm forming *Acinetobacter baumannii* isolates from clinical and surveillance samples. 2022, August 06 Theme" Clinical controversies in Infectious diseases" Venue: Jaypee Siddhartha Hotel, Rajendra Place, New Delhi.

National/International MoUs Signed

National with Central Research Laboratory, Kempegowda Institute of Medical Sciences (KIMS), Bangalore

Extension and Outreach Activities

Naushad Ali: Characterization of Phenotypic and Molecular determinants of linezolid resistance in *Mycobacterium tuberculosis*. Jan 2021 to April 2021

Komal Chhikara: To study the role of efflux pump gene VPVC1 in drug resistance to Ethambutol in *Mycobacterium tuberculosis*. December 2021, to April 2022

Priyanshi Pande: Cloning and expression of candidate genes of mce operon of *M. tuberculosis*. December 2021, to April 2022.

Gayathri J (M.Sc. Microbiology) Department of Biosciences, Jamia Millia Islamia "Phenotypic and genotypic characterization of multi-drug resistant clinical isolates of *Escherichia coli*" January to May 2021.

Faculty Strength

04

Otolaryngology (UCMS)

Brief History

The department is a fully functional department since the time of starting of the college. The Department of ENT deals with diagnosis of all Ear, Nose, Throat and Head and Neck conditions, medical and surgical management of Ear, Nose, Throat and Head and Neck disorders; Undergraduate and Postgraduate teaching and training, research

in basic sciences related to otorhinolaryngology and different aspects of better management of patients in ENT.

Major Activities and Achievements

The department tirelessly aided in management of COVID patients and Mucormycosis patients. More than 400 cases of Mucormycosis were handled by the



department and ENT services were rendered during this epidemic. We continued medical education and academic activities through online modes.

Publications

Gupta, N, Parasher A, Bhardwaj R, Sharma S, Bhatt S, Taneja HC. (2021). Role of Osteitis in Chronic Rhinosinusitis: A Predictive marker of Disease Severity?, *Bengal J Otolaryngol Head Neck Surg*, 29(2), 125-132, 20.

Kapoor D, Verma N, Gupta, N, Goyal A. (2021). Post viral olfactory dysfunction after SARS-CoV-2 infection: Anticipated post pandemic clinical challenge., *Ind J Otolaryngol Head Neck Surg*, 1(7), 1-8, 6.

Faculty Strength

03

Ophthalmology (UCMS)

Brief History

Started in 1987. First HOD - Prof. SN Mathur till 1991. Second HOD - Prof. V P Gupta, till Jan2019. present HOD - Prof. Jolly Rohatgi, 2019 onwards. the Dept started as only OPD services, later In-patients, surgeries and emergencies were started. Now training UG and PGs, providing comprehensive medical and surgical tertiary care services. The dept has received many awards in the past.

Major Activities and Achievements

Managed Step-down ICU during the 2nd and 3rd wave of Covid-19.

Both surgical and medical management of more than 300 cases of mucormycosis including rehabilitation during epidemic of Mucormycosis following 2nd wave of Covid.

Oral presentations and poster presentations in DOS and AIOS by Residents and faculty members.

Organized Public awareness program for Eye donation during Eye Donation Fortnight 26th Aug -8th Sept 2021.

Fresh registration for Eye Bank with The Eyebank Association of India.

Entered MOU with Dr. RP Centre AIIMS, for Corneal retrieval and utilization under National Eyebank of India.

Honours/Distinctions

Dr. Siddharth Madan
72nd Annual DOS International Hybrid Conference (26/09/201 to 03/10/2021)- Oral presentation- Second prize winner.

Publications

Acharya I, Rohatgi J, Sahu PK. (2021). Surgical success of 'W' shaped incision versus Tear Trough incision in External

Dacryocystorhinostomy., *Orbit.*, 30(SEPT), 1-9.

Acharya I, Rohatgi J, Handa A, . (2021). A rare case of Tubercular Scleral AB.Sc.ess, *Asia-Pacific journal of Ophthalmology*, 6(10), 596
Rahul Bhatia, Nitika Beri, P K Sahu, G K Das., (2021) An alternative technique for persistent Descemet's membrane detachment following phacoemulsification: Our clinical experience, *Indian Journal of Ophthalmology-Case Reports*, 2(1), 66-68.

Singh Ankur, Sharma Isha; Das Gopal Krishna; Sahu, P K; RohatgiJolly., (2021). Commentary: Recent concepts of pathophysiology and advancements in treatment strategies of diabetic retinopathy, *Indian Journal of Ophthalmology*, 69(11), 3050-3051.



Tekchandani U, Moharana B, Singh A, Singh R. (2021). Multimodal imaging in a case of posterior microphthalmos., *Indian Journal of Ophthalmology - Case Reports*, 3(1), 422.

Ansari, A., Gupta, P., Madan, S. (2022). Drugs Used in Ocular Local Anaesthesia: An Overview, *Delhi Journal of Ophthalmology*, 1(32), 83-86.

Bajpai, V., Madan, S., & Beri, S. (2021). Arteritic anterior ischaemic optic neuropathy: An update, *European journal of ophthalmology*, 6(31), 2818-2827, 2.

Madan, S., Srishti. (2022). COVID-19 in Children: A Review on Our Understanding So Far, *MAMC Journal of Medical Sciences*, 1(8), 1-10.

Seminars Organized

Dr. Siddharth Madan, Assistant Prof. UCMS, Eye Donation, awareness Program, 2021, August 28.

Conferences Organized

CME- Diabetic Retinopathy- Recent Advances, 2021, November 12.

Seminar/Conference Presentations

Dr. Jolly Rohatgi - Orbital Mucormycosis and Clinical Pathological co-relation.

Dr. Siddharth Madan - Bilateral simultaneous orbital exenteration and sinonasal debridement as a life saving measure in COVID-19 associated rhino-orbito-cerebral mucormycosis.

Dr. Siddharth Madan - Ocular manifestations of COVID associated mucormycosis.

Dr. Puja Rai - "partial resolution of ocular signs in rhino-orbital cerebral mucormycosis patients: case reports.

Dr. Nitika Beri - "Is dermis fat graft ideal as volume replacement for contracted socket?"

Dr. Nitika Beri - A case of unilateral iatrogenic hypotropia following maxillary sinus debridement in patient of post covid mucormycosis.

Dr. Isha Sharma - Low dose atropine in preventing the progression of childhood myopia: A randomised controlled trial.

Dr. Janani - Optic Nerve Head (ONH) Melanocytoma in Thyroid Orbitopathy – The Surprising Protrusion Inside a Protruded Eye!

Dr. Janani - Optic Nerve Head (ONH) Melanocytoma in Thyroid Orbitopathy – The Surprising Protrusion Inside a Protruded Eye!

Dr. Aarushi Saini - Role of Retrobulbar Amphotericin-B in patients with different level of orbital involvement in Mucormycosis- case report of 3 patients.

National/International MoUs Signed

Entered MOU with Dr. RP Centre, AIIMS, for Corneal retrieval and utilization under National Eye Bank of India.

Faculty Strength

Director Prof.: 02

Prof.: 01

Assistant Prof.: 03

Orthopaedics (UCMS)

Brief History

The Department of Orthopaedics was started in the year 1987 with 10 beds and a shared Operating room. The emergency services were established alongwith other departments. The department's academic

orientation was directed by Prof. SM Tuli, who is known world over for his work on Osteoarticular Tuberculosis. At present, the department runs its emergency in Room 55, adjacent to main casualty, which has 8 beds in emergency and 110 bed in wards. It has its



emergency and trauma OT in emergency OT complex, sharing OT time with neurosurgery at present.

Major Activities and Achievements

The department of Orthopaedics at UCMS, continues to provide care to trauma patients, and give evidence backed treatment matching the global standards treatment to patients with Spine Ailments, Sports Injuries (Arthroscopic surgeries etc.), Paediatric problems, Malignant and Benign Bone Tumours, all under one roof. The department is working on various topics like multi drug resistant tuberculosis and role of novel agents for the same, tissue banking, complex trauma, negative pressure wound therapy vacuum-assisted closure (NPWT - VAC); to name a few. The department at present runs Indian Spine Journal at present, and aims to take it to better heights. The department has established bone bank, which is recognized by the Government of Delhi.

Publications

Kumar S, Shah B, Johri A, Anjum R, Garg D, Salhotra R, Tyagi A, Khan AM, Jain AK. (2021). Covid-19 Pandemic: Resumption of Orthopaedic Care and Medical Education, *Indian J Orthop*, 55(2), 506-15.

Abhimanyu S, Jain AK, Myneedu VP, Arora VK, Chadha M, Sarin R. (2021). The role of cartridge-based nucleic acid amplification test (CBNAAT), line probe assay (LPA), Liquid culture, acid-fast bacilli (AFB) smear and histopathology in the diagnosis of osteoarticular tuberculosis, *Indian J Orthop*, 55(Suppl1), S157-S166.

Jain A, Kumar S, Arora VK, Saha R, Aggarwal AN, Jain AK. (2021). Study of Cell Viability and Etiology of Contamination in Decalcified Bone Allograft: A Pilot Study, *Indian J Orthop*, 56(1), 16-21.

Raj Y R, Srivastava A, Aggarwal A, Haq R U. (2021). Assessment of usefulness of CT scan in AO classification of intertrochanteric fractures: A prospective observational

study, *Indian Journal of Orthopaedics*, 56(3), 392-98.

Kumar S, Geevarughese NM, Rajnish RK, Lakshminarayana S, Aggarwal AN, UIHaq R. (2021). Outcomes of Displaced, Comminuted, Intracapsular Neck Femur Fracture in Young Adults Managed with Three Screw Inverted Triangle Versus Four Screw Diamond Configuration: A Comparative Pilot Study, *Indian J Orthop*, 56(4), 566-572.

Pathak S, Srivastava A, Aggarwal A, Chadha M, Kashyap B, Singh N P. (2021). Change in granulation tissue coverage and bacteriological load using low cost negative pressure wound therapy in acute musculoskeletal wounds, *Journal of Clinical Orthopaedics and Trauma*, 23, 1-7.

Gupta, S, Malhotra R, Srivastava A, Arora R, Aggarwal AN, Mishra, P. (2022). Inter- and intra-observer variation of schatzker classification of tibial plateau fractures and morphological characteristics of each fracture subtype on computed tomography scan, *J OrthopTraumatolRehabil*, 14(1), 18-23.

Rajnish R K, Srivastava A, Rathod P K, Haq R U, Aggarwal S, Kumar P, Dhammi I K, DadraA. (2022). Does the femoral neck system provide better outcomes compared to cannulated screws fixation for the management of femoral neck fracture in young adults? A systematic review of literature and meta-analysis, *Journal of Orthopaedics*, 32, 52-59.

Chadha M, Srivastava A, Kumar V, Tandon A. (2022). Disc degeneration in lumbar spine of asymptomatic young adults: A descriptive cross-sectional study, *Indian Journal of Orthopaedics*, 56(6), 1083-1089.

Pandey, R, Rajnish R, Srivastava A, Bhayana H, Dhammi I. (2021). An unusual mechanism of side swipe injury of passengers travelling in a train and a review of literature, *International Journal of Burns and Trauma*, 11(4), 1-6.

Faculty Strength

Director Prof.s: 03



Assistant Prof.s: 03

Pathology (UCMS)

Brief History

The Department of Pathology was started way back in early 1970s in the Emergency Block of Safdarjung Hospital under the able leadership of Dr. D. N. Gupta, who was also the Principal of the College. The Department now has well developed sections - Histopathology, Cytopathology, Haematology, Blood Bank, Molecular Pathology and Clinical Pathology including work up of autoimmune diseases.

Major Activities and Achievements

Department of Pathology is actively involved in teaching MBBS, MD, paramedical. MLT and B.Sc. 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.

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).

Honours/Distinctions

Dr. Satya Monga Award for Nakra T, Roy M, Yadav R, Agarwala S, Jassim M, Khanna G, Das P, Jain D, Mathur SR, Iyer VK. Cytomorphology of Hepatoblastoma with Histological Correlation and Role of SALL4 Immunocytochemistry in Its Diagnosis, Subtyping, and Prognostication. Cancer Cytopathol. 2019 in CYTOCON 2021.

Publications

Philip, A. C., Madan, P., Sharma S., & Das S. (2022). Utility of MGG and Papanicolaou stained smears in the detection of Mucormycosis in nasal swab/scraping/biopsy samples of COVID 19 patients, *Diagnostic cytopathology*, 50(3), 93-98, 2.

Dixit, S., Jain, S., Garg N., Chauhan, S., & Sharma S. (2021). C3 Glomerulopathy: Diagnosis of a Rare Entity in a Resource-Limited Setting., *Saudi journal of kidney diseases and transplantation*, 32(4), 1128-1133.

Tanveer, N., Dixit, S., Jain, P., Rani, P., Gautum, H. V., & Naskar, S. (2022). Static smartphone images supplemented by videoconferencing for breast telepathology., *Clinical breast cancer*, 22(5), 455-461.

Kumari, K., Dandapath, I., Singh J., Rai, H. I., Kaur, K., Jha P., Malik, N., Chosdol, K., Mallick, S., Garg A., Suri, A., Sharma MC., Sarkar, C., & Suri, V. (2022). Molecular Characterization of IDH Wild-type Diffuse Astrocytomas: The Potential of cIMPACT-NOW Guidelines., *Applied Immunohistochemistry & Molecular Morphology*, 30(6), 410-417.

Nambiyar, K., Ahuja, A., & Bhardwaj, M. (2021). A study of epithelial-mesenchymal transition immunohistochemical markers in primary oral squamous cell carcinoma., *Oral surgery, oral medicine, oral pathology and oral radiology*, 132(6), 680-681, 1.

Aggarwal, D., Wadhwa, N., Arora, T., Rajaram, S., Diwaker, P., Halder, A., Jain, M., & Mishra, K. (2021). Human telomerase RNA component (hTERC) gene expression and chromosome 7 ploidy correlate positively with histological grade of cervical intraepithelial neoplasia, *Cytopathology*, 32(5), 631-639.



Dixit, S., Diwaker, P., Wadhwa, N., & Arora, V. K. (2021). Galectin-3 and CD117 immunocytochemistry in the diagnosis of indeterminate thyroid lesions: A pilot study., *Diagnostic cytopathology*, 9(10), 1129-1137.

Dixit, S., Jha, T., Gupta, R., Shah, D., Dayal, N., & Kotru, M. (2022). Practical Approach to the Interpretation of Complete Blood Count Reports and Histograms, *Indian pediatrics*, 59(6), 485-491.

Tanveer, N., & Diwan, H. (2021). Climbing the SAMR ladder: Utilizing audio messages for teaching pathology to postgraduates, *The National medical journal of India*, 34(4), 251-253.

Garg N., Tanveer, N., & Dixit, S. (2021). Student feedback on the use of gamification for teaching pathology postgraduates, *The National medical journal of India*, 34(6), 375-376.

Research Projects

DST, 2018-2021, Early Career Research Grant from Department of Science and Technology (DST): Podocyturia in children with nephrotic syndrome: Can urine podocyte level and its growth characteristics predict steroid resistance, Rs. 37,64,568/-

MRU-UCMS (under ICMR), 2021, 2. BCR-ABL Fusion Transcript in Pediatric Acute Lymphoblastic Leukemia, Rs. 2,50,000/-

MRU-UCMS (under ICMR), 2021, Expression of Immune Checkpoint Regulator Cytotoxic T lymphocyte antigen 4 (CTLA-4) in invasive ductal carcinoma breast, Rs. 2,00,000/-

MRU-UCMS (under ICMR), 2021, Peripheral blood T regulatory cells and Th1, Th2, Th17 immune milieu in antenatal females with a history of recurrent pregnancy loss, Rs. 2,50,000/-

Patents Filed/Granted

One National patent and Method for preparation of preservative for cellular components of cerebrospinal fluid.

Seminars Organized

Dr. Khushnuma, Biorad, Understanding HPLC histograms & hemoglobinopathy diagnosis, HPLC, 28-06-2021.

Conferences Organized

An overview of Milan System. CME on Salivary gland cytology under 50th Annual Conference of Indian Academy of Cytologists, 2021, November 19.

WORKSHOP ON 'Molecular technology in Hemoglobinopathy for HEMATOCON 2021, 2021, November 10.

Interpretation of New CBC parameters, seminar with Mindray India, 2021, October 01.

Seminar/Conference Presentations

Dr. Sonal Sharma - An overview of Milan System. CME on Salivary gland cytology under 50th Annual Conference of Indian Academy of Cytologists, AIIMS, New Delhi. 2021, November 19-21.

Dr. Sonal Sharma - Panel discussion. CME on Salivary gland cytology under 50th Annual Conference of Indian Academy of Cytologists, AIIMS, New Delhi. 2021, November 19-21.

Dr. Sonal Sharma - Vulvar Dermatopathology. Annual Conference of Dermatopathology Society of India. 2022, February 14-15 Virtual meeting organized by AIIMS, Jodhpur.

Dr. Sonal Sharma - Roles and responsibilities of Ethics Committee. Ethics in Human Research and Good Clinical Practices. ABVIMS, Dr. RML Hospital, New Delhi, 2022, March 28.

Dr. Sonal Sharma - 'Slide seminar of Interesting cases' for OTPPGP on 2022, March 17.



Dr. Mrinalini Kotru - CME series on "CML" in collaboration with Omnicurus and DSH in November 2021.

Dr. Mrinalini Kotru - XXXIX EAFO Onco-Pathology Seminar "Hematolymphoid Malignancies" in hybrid format in Moscow from Thursday-January 6 to Sunday-January 9, 2022 on 'Approach to Bleeding Disorder'.

Dr. Mrinalini Kotru - XXXIX EAFO Onco-Pathology Seminar "Hematolymphoid Malignancies" in hybrid format in Moscow from Thursday-January 6 to Sunday-January 9, 2022 on 'Chronic Myeloproliferative Disorders Other than CML'.

Dr. Mrinalini Kotru - Pre-conference workshop at PEDICON 2022 at expo-mart greater Noida on 19th March - "Hemoglobinopathy diagnosis".

Dr. Mrinalini Kotru - 'Slide seminar of Interesting cases' for OTPPGP on 22nd March 2022.

Other Inter-Institutional Collaboration

Pathology (LHMC)

Brief History

The Department of Pathology was started soon after the inception of the College in year 1916. It was shifted to a new block in 1956 and the M.D Pathology course was started. The Blood Bank was started in 1964 and has made great strides since its inception. Recently platelet aggregometer, fully automated body fluid cell counter, fully automated immunostainer and 12 color flow cytometer have been added to our diagnostic repertoire.

Major Activities and Achievements

Dr. Sunita Sharma Dr. Vandana Puri - Mentioned in Erudite Women's Outstanding contribution to the Indian Medical Education: A recognition on International Women's Day 2021 in Global J. of Med Res.: K Interdisciplinary. Vol 1 Year 2021.

PG students are sent to R&R hospital Delhi for Autopsy training.

Student under Exchange Program (Inbound/Outbound)

02 students came from Russia for observership in Hematology under the aegis of EAFO.

Other Inter-Institutional Collaboration

PG students are sent to R&R hospital Delhi for Autopsy training.

Placement Details

All MD students get placed (14-16/ year)- 100% placement.

Extension and Outreach Activities

Department organized 40 blood donation camps.

Faculty Strength

Director Prof.- 03

Prof.- 04

Assistant Prof.- 09

Round the clock emergency services were provided during covid pandemic.

Mr. Rakesh (MLT) won 2nd runners up prize in art of histology contest 2022.

Honours/Distinctions

Dr. Sunita Sharma - Reviewer for Indian Journal of Pathology and Microbiology - Reviewer for Indian Journal of Haematology and Blood Transfusion - Member, Committee of Courses and Studies(CCS) of the Department of Pathology, Delhi University.

Dr. Kiran Agarwal - Technical expert HSCC equipments for AIIMS Rae bareli.

Dr. Shailaja Shukla - Member, Committee of Courses and Studies(CCS) of the Department of Pathology, Delhi University - Member of



Expert group, under DGHS, for deferral criteria for blood donation, post Covid 19 vaccination. Dr. Smita Singh - External expert in bid evaluation committee for equipments in pathology department, RML hospital.

Dr. P. Lalita Jyotsna - Member of Medical Equipment and Hospital planning (MHD) Task force Committee, Bureau of Indian Standards, Govt. Of India - Technical expert – TEC-Integrated Track-based automation enabled core clinical laboratory for New AIIMS institutes - Member, Committee of Courses and Studies(CCS) of the Department of Pathology, Delhi University.

Dr. Priti Chatterjee - Expert (Bureau of Indian Standards), International Organization of Standardization for formulation of International Standards regarding Medical Equipment and Devices -Member of Medical Equipment and Hospital planning (MHD) Task force Committee, Bureau of Indian Standards, Govt. Of India.

Publications

Chandra J, Parakh N, Singh N Sharma S. (2021). Efficacy and Safety of Thalidomide in Patients with Transfusion-Dependent Thalassemia, *Indian Pediatr*, 58(July), 611-61, HI-54 citations-11.

Sharma S Thomas P, Chandra J, Nangia A, Sehgal S. (2022). Analysis of the Coagulation Profile in Children with HIV Infection-Effect of Disease and Anti Retroviral Therapy, *Sharma S Thomas P, Chandra J, Nangia A, Sehgal S*, 38(Jan), 132-37, HI-17.

Sharma S, Gaur K, Srivastav S, Mandal P. (2022). Erythrophagocytosis in a patient with B-cell acute lymphoblastic leukemia with (t12;21) (p13.2; q22.1); ETV6- RUNX1: Case report and review of the literature, *Indian J Pathol Microbiol*, 65(Mar), 191-94, HI-33.

Puri V, Gaur K, Hooda S, Shukla S, Sharma S. (2021). Papanicolaou-Stained Cytosmear Preparations in the Evaluation of Leucocytospermia: A Tertiary Centre

Experience and Assessment of Utility, *J Lab Physicians*, 13(Sep), 208-213.

Jaiswal N, Puri M, Agarwal K, Singh S, Yadav R, Tiwary N, Tayal P. (2021). COVID 19 as an independent risk factor for subclinical placental dysfunction, *European Journal of Obstetrics & Gynaecology and Reproductive Biology*, 259(April), 7-11.

Chatterjee P, Osama M.A., Pallekonda, S. (2022). Benign Lesion of Vagina Mimicking a Malignant Tumor: An Entity Commonly Overdiagnosed, *Indian J Gynecol Oncolog*, 20(June), 25, HI-04.

Bhattacharya JB, Jain SL, Devi S. (2021). The Role of Immunocytochemical Markers to Differentiate Primary from Secondary Neoplastic Hepatic Masses: A Diagnostic Challenge on Cytology, *Turk Patoloji Derg*, 37(June), 196-202, Citation-1 HI-15.

Choudhary A, Ali S, Mohta A, Kumar A, Aggarwal L, Bhattacharya JB, Harsha SS. (2022). Cervical sympathetic chain schwannoma: a case report, *International Surgery Journal*, 9(7), 1366-68, HI-40.

P. L. Jyotsna, Jaiswal N, Yadav R, Tayal P. (2021). Placental pathology in a COVID-19 Positive patient with abruptio placentae: A case report, *Journal of clinical and diagnostic Research*, 15(8), QD01-QD02, HI-56.

Jassi R, Sanke S, Maheshwari A, Chander R, Singh S. (2021). Acquired Agminate Angioma, *Skin med*, 19(August), 315-317.

Research Projects

2021, "Qualification of Pre-Analytical Quality indicators in Clinical Laboratory and Formulating the lean six sigma dmaic strategy".

Seminars Organized

Dr. Sahil Ajit Saraf, Consultant Pathologist Qiritive Technologies, Singapore General Hospital, Utility of AI in colonic carcinoma, Artificial Intelligence, 2022, March 24.



Seminar/Conference Presentations

Dr. Anita Nangia-Neonatal ovarian cyst: Report of a rare case presented in APCON (online).

Dr. Kiran Agarwal-Small bowel myxoma causing intussusceptions-A rare case report presented in APCON (online).

Dr. Kiran Agarwal- SCC arising from keratinising desquamative squamous metaplasia of renal pelvis and double paraneoplastic syndrome: Association of two rare entities presented in APCON (online).

Dr. Priti Chatterjee-Infantile tumoral calcinosis: cytological diagnosis of a rare case presented in Cytocon (online).

Dr. Jenna Bhattacharya- Nasolabial cyst masquerading as malignancy: A rare case

report with cyto-histo correlation presented in CYTOCON (online).

Dr. Sunita Sharma- G-6PD deficiency with co-inherited Gaucher Disease: A rare association presented in HEMATOCON(online).

Dr. Shailaja Shukla-Estimating platelet counts in routine practice: our experience on the achilles' heel of laboratory technology presented in HEMATOCON (online).

Faculty Strength

Director Prof.: 05

Prof.: 04

Assistant Prof.: 01

Assistant Prof. on contract: 02

Pathology (VPCI)

Brief History

The Department of Pathology is one of the Oldest departments at VPCI which was established in 1954. With the aim to network the pulmonary pathologists across the country, the Pulmonary Pathology Society of India was registered in 2008.

The department,

Conducts P.G. courses - STCC (Short term Certificate Course) in Clinical Pathology.

Collaborates in MD/Ph.D. research program at VPCI.

P.G. Training Program (summer and winter) for B.Sc./M.Sc. students since 2007.

Major Activities and Achievements

The Department of Pathology at VPCI, participated in management of post Covid-19 patients by performing the D-dimer and other essential diagnostic coagulation profile and hematology assays necessary for treatment of these patients. At the same time, the department continued its teaching and research program at VPCI and in its collaboration with different institutions

across the country. The department started the post graduate course- STCC (Short term Certificate Course) in Clinical Pathology in 2021-22. The objective of the programme is to impart theoretical and hands on training in Clinical Pathology techniques. This programme is being conducted by the Institute round-the-year i.e. 4 programs consisting of 6 students per programme.

Honours/Distinctions

Dr. Ritu Kulshrestha was the External Member of Specialist Panel on Soldier Health and drug development (SH&DD), Inst of Nuclear Med and Allied Sc (INMAS), Delhi since 15th September 2021.

Dr. Ritu Kulshrestha is the Member of Scientific Advisory committee for MRHRU External Member of the Scientific Advisory Group for the Dept of Health Research, MOHFW, GOI established Model Rural Health Research Unit (MRHRU) at Khotpura, Panipat, Haryana in collaboration with the Kalpana Chawla Government Medical College, Karnal



under mentorship of ICMR-NICPR, Noida since March 2021.

Dr. Ritu Kulshrestha is the Member, Board of Studies, Dept. of Paramedical sciences, Faculty of Allied Health Sciences, SGT University, Gurgaon since November 2020.

Dr. Ritu Kulshrestha is the Associate Member of DBT–TDNBC–Deakin–Research Network across Continents for Learning and Innovation (DTD-RNA) since November 2020.

Dr. Ritu Kulshrestha is the Councilor Member of the Asia-Australasian Pulmonary Pathology Society (AAPPS) since 2016.

Dr. Ritu Kulshrestha is the Biosafety Officer on the Institutional Biosafety Committee (IB.SC.), Dept of Biosciences, Faculty of Natural Sciences, Jamia Milia Islamia, New Delhi since April 2019.

Dr. Ritu Kulshrestha was the Invited faculty for the sessions:

“Histopathology in the diagnosis of ILD”.

Panelist for Discussion on Granulomatous ILD, Pathology Workstation. During- ILD Workshop, NAPCON 2022” at Varanasi, on 31st March 2022.

Publications

Ritu Kulshrestha, Amit Singh Pawan Kumar Divya S. Nair, Jyoti Batra, A.K. Mishra, A.K. Dinda. (2022). Nanoapproach targeting TGFβ1-Smad pathway and modulating lung microenvironment, *Process Biochemistry*, 00(121), 126-41.

Kulshrestha Ritu, Pawan Kumar Amit Singh Nupur K, Sonam Spalgias, Parul Mrigpuri, Rajkumar. (2021). Untangling the KRAS mutated lung cancer subsets and its therapeutic implications, *Molecular Biomedicine*, 00(2), 40, 01.

Anshu Priya, Sonam S, Kulshrestha R, Raj Kumar. (2022). Primary Pulmonary LELC: A Rare Childhood Malignancy, *Medical Journal Armed Forces India*.

Mrigpuri P, Menon B, Spalgais S, Kulshrestha R, Saini H, Gupta, A. (2022). IgG4 related disease presenting with pulmonary manifestations, lymphadenopathy and vocal cord immobility: An unusual presentation of a rare disease, *Egypt J Chest Dis Tuberc*, 00(71), 135-8.

Sonam Spalgais, Parul Mrigpuri, Ritu Kulshrestha, Vatsal Gupta, Raj Kumar. (2022). Pulmonary adenocarcinoma mimicking rheumatoid lung and delaying diagnosis for 8 months, *Egypt J Chest Dis Tuberc*, 00(71), 405-8.

Virdi JK, Kulshrestha R, Jaggi A. (2021). Ameliorative effects of 3-methyladenine and chloroquine in 3-nitropropionic-induced Huntington’s disease like symptoms in mice, *Indian Journal of Pharmaceutical Education and Research*, 4(55), 1037.

Apoorva Pandey, Ritu Kulshrestha, Surendra Kumar Bansal. (2021). Dynamic role of LMW-hyaluronan fragments and Toll like receptors 2,4 in progression of bleomycin induced lung parenchymal injury to fibrosis., *Egyptian Journal of Bronchology*, 00(15).

Research Projects

ICMR, 2019/3 years, Designing of inhalational polymeric nanoparticle drug delivery systems for the treatment of lung fibrosis, Rs. 30,00,000/-

VPCI-DHR-ICMR (MRU), 2019/3 years, Synthesis of polymeric nanoformulations encapsulated with chemotherapeutic agents for lung cancer treatment, Rs. 7,50,000/-

VPCI-DHR-ICMR (MRU), 2019/3 years, Exploring the potential of G-Quadraplex targeting nanoparticle (GQ-NP) conjugates in lung cancer, Rs. 7,50,000/-

Seminar/Conference Presentations

Kulshrestha R1, Negi A1, Ishita1, Saxena H1, Meenu D1, Menon B.K2, Kaushik R2, Pandita S2, Raj Kumar. Tumor cell phagocytosis (cannibalism) in lung cancer: possible biomarker for tumor immune escape and prognosis. E-Poster presented in The



American Virtual Conference on Lung Cancer.
7th December 2021.

Other Inter-Institutional Collaboration

In MRU projects Dr. Ritu Kulshrestha is collaborating with All India Institute of Medical Sciences (Prof. AK Dinda, Dept of Pathology) and INMAS, DRDO (Dr. A.K. Mishra,) in two projects.

In ICMR Nano task force project Dr. Ritu Kulshrestha is collaborating with All India Institute of Medical Sciences (Prof. AK Dinda, Dept of Pathology) AIIMS, and INMAS, DRDO (Prof. AK Mishra, Scientist G)

Student under Exchange Program(Inbound/Outbound)
Prof.: 01

4 students of Btech+Mtech Biotechnology,
Amity University, Noida

Other Inter-Institutional Collaboration

In MRU projects Dr. Ritu Kulshrestha is collaborating with All India Institute of Medical Sciences (Prof. AK Dinda, Dept of Pathology) and INMAS, DRDO (Dr. A.K. Mishra,) in two projects.

In ICMR Nano task force project Dr. Ritu Kulshrestha is collaborating with All India Institute of Medical Sciences (Prof. AK Dinda, Dept of Pathology) AIIMS, and INMAS, DRDO (Prof. AK Mishra, Scientist G).

Faculty Strength

Paediatrics (MAMC)

Major Activities and Achievements

The department houses state of the art Child Development Centre and Centre of Excellence (COE), Pediatric Genetic Lab, Thalassaemia and Haemophilia Daycare Services, Oncology Unit, Pediatric Nephrology Division, Pediatric ART Clinic and other similar centres of excellence.

A stellar contribution to patient care was the admission and treatment of both adult and pediatric COVID cases during the second wave of the COVID Delta Virus. The department, thus broke new ground in terms of patient outreach and provisioning of critical care during the pandemic.

Among the achievements of the current year, are the adoption of the new medical curriculum laid down by the National Medical Council. The department is well aware of the larger role it has to play in civil society in India, and so is a driver of national health programmes like immunization, diarrhoeal disease prevention, Centre of Excellence-Early Intervention Centre under Rashtriya Bal Swasthya Karyakram (RBSK), Mission NEEV,

infant feeding and many others launched from time to time.

Honours/Distinctions

Dr. M. Juneja Incharge of newly commissioned, Centre of Excellence-Early Intervention Centre (COE-EIC) under RBSK, NHM (operational since 1st October'2021).
National Chairperson for development of national consensus guidelines (in collaboration with IAP chapters Paediatric Neurology, Neurodevelopment and Behaviour Paediatrics and Growth, development and behaviour Pediatrics) on Diagnosis and Management of Global Development Delay'2022.

Dr. Seema Kapoor
Appointed Task Force Member of Human Genetics & Genomics by DBT.
Considered as member of Science and Education Committee of the International Society for Newborn Screening.
Task Force Member of the Artificial Intelligence in Health by DBT.



Considered as Honorary Auditor for Asia Pacific Society of Human Genetics.

Task Force Member of Rare Diseases by ICMR, DHR, MOHFW and DBT.

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.

Reviewer for Indian Pediatrics, Indian Journal of Pediatrics Journal of Pediatric Genetics & Metabolism, World Journal of pediatrics.

Member of the small molecule group registry under the registry.

Member of the Central PNDT committee.

Member of the National Newborn Screening Committee.

Membership of DST Member of the External standing cum screening committee of the DST for the Task Force of BCc.

Membership of DBT Appointed Task Force Member of Human Genetics & Genomics by DBT.

Task Force Member of the Artificial Intelligence in Health by DBT.

Member of the Research Cell of the Institute.

Member Disability Board.

Member Advisory to Infertility Initiative in MAMC.

Dr. M. Mantan

Judged papers presented at the 33rd Annual Conference of The Indian Society Of Pediatric Nephrology, held from (10th-12th Dec 2021) in the online mode and conducted by AIIMS, Bhopal.

Delivered talk on "Bone disease in CKD" at the 33rd Annual Conference of The Indian Society of Pediatric Nephrology, held from (10th-12th Dec 2021) in the online mode and conducted by AIIMS, Bhopal.

Delivered talk on "Hydronephrosis; Causes and management" at the webinar organized by Delhi IAP branch on 12th March 2021.

Delivered talk on "Overview of UTI & Role of chemoprophylaxis in VUR" at the 13th Pediatric Surgery update held online from 11-14th March 2021.

Delivered talk on "Management of children with kidney disease during COVID19

pandemic: Pediatric Nephrologist's Perspective on 26th Nov 2021 in a virtual Pediatric nephrology national CME organized by RR Hospital and Armed Forces of Medical College, Delhi.

Nominated as a member of Academic Committee of the Indian Society of Pediatric Nephrology in 2021 for a 5-year duration.

Nominated as a member of International guidelines committee for IgA vasculitis associated nephropathy in children by International Pediatric Nephrology Association in 2021.

Publications

Kakooza-Mwesige A, Bakare M, Gaddour N, Juneja M. (2022). The need to improve autism services in lower-resource settings, *Lancet*. 2022 Jan 15;399(10321):217-220. doi: 10.1016/S0140-6736(21)02658-1. Epub 2021 Dec 6. PMID: 348830, 1.

Singh P, Mishra, D, Pandey, PN, Juneja M. (2021). Clinical profile and short-term course of post-traumatic headache in children with mild traumatic brain injury: a prospective cohort study, *Childs Nerv Syst*. 2021 Jun;37(6):1943-1948. doi: 10.1007/s00381-020-05032-4. Epub 2021 Jan 6. PMID: 33404708.

Keerthana D, Mishra, D, Chauhan MK, Juneja M. (2022). Effect of Propranolol Prophylaxis on Headache Frequency in Children with Migraine Without Aura: A Randomized, Double-Blind, Placebo-Controlled Trial, *Indian J Pediatr*. 2022 Jul 22. doi: 10.1007/s12098-022-04279-w. Epub ahead of print. PMID: 35867273.

Sharma M, Singh T, Juneja M, Agrawal D, Mehta R, Basavaraja GV, Gupta, P. (2021). Indian Academy of Pediatrics Task Force on NC-ECD in Medical Curriculum. Indian Academy of Pediatrics (IAP) Task Force Recommendations for Incorporating Nurturing Care for Early Childhood Development (NC-ECD) in Medical Education in India., *Indian Pediatr*. 2022 Feb 15;59(2):137-141. Epub 2021 Jul 7. PMID: 34234042, 1.



Bhinder OS, Swarnim S, Ratanjeet K, Meyyan A, Mantan M. (2021). Repurposed role of pediatric nephrologist during pandemic: experience of managing adults with ckd and covid19 infection, *Pediatric Nephrol.* 2021 Sept 1; 36 (9): 2936.

Ram V, Mantan M, Yadav S, Swarnim S, Mahajan B. (2021). Comparison of estimated glomerular filtration rate by serum creatinine and serum Cystatin-C based equations in children and adolescents with Chronic Kidney Disease, *Pediatric Nephrol* 2021 sep 1; 36 (9): 2906-2907.

Anurag Agarwal*, Nandha Kumar. (2021). Phase 3, Randomized, Open-label, Noninferiority Trial Evaluating Anti-Rabies Monoclonal Antibody Cocktail (TwinrabTM) Against Human Rabies Immunoglobulin Correspondence Clinical Infectious Diseases.

Subramanian A, Mohan A, Nandi PK, Rajeshwari K. (2021). Perceived social support, depression and their impact on quality of life of people living with HIV in India, *2021 Oct;33(10):1329-1334.* doi: 10.1080/09540121.2020.1810620, 7.

Kumar A, Choudhary S, Kumar S, Adhikari JS, Kapoor S, Chaudhury NK. (2022). Role of melatonin mediated G-CSF induction in hematopoietic system of gamma-irradiated mice., *Life Sci.* 2022 Jan 15.

Rattanjeet K, Mehra P, Jhamb U, Saxena R. (2022). 0.45% Versus 0.9% Saline in 5%

Dextrose as Maintenance Fluids in Children Admitted With Acute Illness, A Randomized Control Trial Pediatric Emergency Care, *January 25, 2022 - Volume - Issue - doi: 10.1097/PEC.0000000000002621.*

Research Projects

Planning, MAMC, 2-year, Impact of high dose oral Folinic Acid on language development in children with Autism Spectrum Disorder: A Double Blind Randomised Control Trial, Rs. 2,97,240/-

DBT, 5-year, Training of in-service Clinicians from Government Hospitals and outreach programme for Aspirational districts", Rs. 4,16,88,977/-

ICMR, 3-year, National Registry for Rare and other inherited disorders, Rs. 40,90,960/-

ICMR, 4-year, Effect of daily vitamin D supplementation on serum vitamin D levels in children with epilepsy receiving sodium valproate monotherapy: A double-blind randomized controlled trial, Rs. 27,00,000/-

Serum Institute of India, 4-year, A Phase IV, Randomized, Controlled Study of the Safety and Immunogenicity of Rabishield + Rabivax-S Post-Exposure Prophylaxis regimen in Patients with Potential Rabies Exposure.

Faculty Strength

17

Pharmacology (MAMC)

Brief History

The Department of Pharmacology was established in 1959 and has been involved in education of health care Professionals including undergraduates (MBBS), postgraduates (MD), dental (BDS), B.Sc. nursing students along with training of medical laboratory technology personnel.

Major Activities and Achievements

Department of Pharmacology, MAMC is a recognized regional center for monitoring adverse drug reactions under the Pharmacovigilance Programme of India, Indian Pharmacopoeia Commission, Ministry of Health and Family Welfare, Government of India. The Department has reported 2810 Individual case Safety Reports (ICSRs) to the National Pharmacovigilance Centre for



reporting to the International Centre for Pharmacovigilance at Uppsala, through Vigibase in 2022 since from its inception. The aims of the Center are to: Make health care providers aware about Patient safety, concept of pharmacovigilance, Adverse Drug Reactions (ADRs) and its reporting with the ultimate objective to promote safe use of drugs.

The Department of Pharmacology was a pioneer in taking initiative on web based teaching and started online classes from 20 th March 2020, soon after the COVID lockdown. The Department initiated, planned and organized the online teaching programme for all the Departments of the college. Dr. Vandana Roy was made Officer in charge for online teaching in the college during COVID lockdown. During this period, a total of 180 hours of online classes were conducted for MBBS students, 87 hours of online classes for BDS students and 98 hours of online teaching was conducted for Postgraduates. Moreover, online assessment, viva, clinical case discussion was also undertaken using Google forms for MBBS and BDS students. To encourage student's engagement during COVID lockdown, the whole batch was divided in smaller group of students and teaching staff was engaged in online teaching and tutorials.

Successful continuous implementation of new competence based medical education MBBS curriculum. New student feedback and assessment card were prepared according to new curriculum.

Use of artificial intelligence in the field of pharmacology and general healthcare was done. Moreover, Department of Pharmacology has developed in-silico drug screening AI model.

Upgradation of Therapeutic Drug Monitoring laboratory for the analysis of drug levels. Now we have received the new instruments for the upgradation of the TDM laboratory.

Honours/Distinctions

Dr. Vandana Roy

Designated as Vice President of Delhi Pharmacological Society 2020.

Designated as Vice President, Society for Pharmacovigilance of India.

Dr. Sanjeev Khanth P.E has received the second prize for presentation at 3rd National Biomedical Research Competition jointly organised by AIIMS-Rishikesh, JNU-Delhi, PGI-Chandigarh, NIPER-Mohali, CDRI-Lucknow, IITR-Lucknow, and AIIMS-Jodhpur, 15th December-2021.

Publications

Rana P, Ghadhinge M, Roy V. (2021). Topical antifungal-corticosteroid fixed drug combinations: Need for urgent action, *Indian Journal of Pharmacology*, 1(53), 82-84, 4.

Bharadwaj A, Roy V. (2021). COVID-19 associated mucormycosis in COVID-19, host-iron assimilation: probiotics can be a novel therapy, *Journal of Pharmacology & Pharmacotherapeutics*, 2(65), 1-4, 1.

Bhardwaj A, Roy V. A. (2021). A mini review: Mucormycosis in coronavirus disease-19, host-iron assimilation & probiotics as novel therapy., *Journal of Pharmacology & Pharmacotherapeutics*, 3(12), 415.

Atal S, Jhaj R, Mathur A, Rai N, Misra S, Sadasivam B. (2021). Outpatient prescribing trends, rational use of medicine and impact of prescription audit with feedback at a tertiary care centre in India., *Int J Health Plann Manage*, 3(36), 738-752, 1.

Haque, I. M., Mishra, A., Kalra, B. S., & Chawla, S. (2021). Role of Standardized Plant Extracts in Controlling Alcohol Withdrawal Syndrome, An Experimental Study, *Brain Science*, 7(11), 919.

Roy V, Singhal S, Tayal H, Dubey AP. (2021). Availability of Pediatric Formulations in Public Health Care System in India: A Case Study., *Indian J Pediatr*, 3(88), 227-234, 1.



Singhal S, Kalra BS. (2022). Publication ethics: Role and responsibility of authors., *Indian J Gastroenterol*, 40(1):65-71. 12, 1(40), 65-71, 12.

Singhal S, Hasan N, Nirmal K, Chawla R, Chawla S, Kalra BS, Dhal A. (2022). Bioavailable turmeric extract for knee osteoarthritis: a randomised, non-inferiority trial versus paracetamol., *Trials*, 1(22), 105, 23.

Gupta, M. D., Jha, M. K., Bansal, A., Yadav, R., Ramakrishnan, S., Girish, M. P. (2022). COVID 19-related burnout among healthcare workers in India and ECG based predictive machine learning model: Insights from the BRUCEE-Li study., *study. Indian heart journal*, 6(73), 674-681, 4.

Research Projects

Delhi Tuberculosis Association, 2021-22, To evaluate co morbid depression in newly diagnosed patients with tuberculosis in the DOTS clinic of LN Hospital.

Intramural, 2021-22, To study neuroprotective effect of Zingiber officinale (Ginger) in Aluminium Chloride induced Alzheimer's disease in rat model.

Delhi Tuberculosis Association, 2021-22, Evaluation of selected biomarkers for depression in subjects with type 2 diabetes mellitus.

Intramural, 2021-22, To evaluate the protective effect of Azadirachta indica leaf extract on chemically induced colon cancer in rats.

Intramural, 2021-22, Impact of Concomitant drug intake on outcomes in patients with COVID 19: Risk scoring method to predicting mortality and ICU admission in tertiary care hospital, New Delhi.

Seminar/Conference Presentations

Dr. Vandana Roy was Invited Speaker. Virtual training on Pharmacovigilance for NABH

accredited hospitals in India in collaboration with NABH and Indian Pharmacopoeia Commission, NCC. Ghaziabad, Delhi. 2021, March 25.

Dr. Vandana Roy was Chairperson, CME Covid 19 pandemic to vaccine. Maulana Azad Medical college, 2020, March 16.

Dr. Manu Kumar has delivered guest lecture on "AI in pharmacovigilance" at National Pharmacovigilance week, ESI Medical College in the month September 2021.

Dr. Manu Kumar Building an AI Model on ECG Data for Identifying Burnout/Stressed Healthcare Workers Involved in Covid-19 Management. In the Fourth International Conference on Electrical, Computer and Communication Technologies (ICECCT).

Dr. Sanjeev Khanth P.E has received the second prize for presentation at 3rd National Biomedical Research Competition jointly organised by AIIMS-Rishikesh, JNU-Delhi, PGI-Chandigarh, NIPER-Mohali, CDRI-Lucknow, IITR-Lucknow, and AIIMS-Jodhpur, 2021, December 15.

Dr. Manu Kumar. X-ECGNet: An Interpretable DL model for Stress Detection using ECG in COVID-19 Healthcare Workers. In 2021 4th International Conference on Bio-Engineering for Smart Technologies (BioSMART).

Extension and Outreach Activities

Training health care providers on safe use of medicine for medical institutions in National Capital Region of Delhi.

Generating the awareness of Pharmacovigilance for Doctors and Nurses by conducting regular workshop and training sessions.

Faculty Strength

06

Medical Officers 2



Pharmacology (UCMS)

Brief History

Thrust areas of research for the department of pharmacology had been:

Psychoneuropharmacology of stress, pain and convulsive disorders; neurobehavioral aspects of drug abuse; opioid and indigenous drug pharmacology and Clinical pharmacology.

Major Activities and Achievements

Many new teaching activities were introduced as per the competency based undergraduate curriculum by the National Medical Commission. We have introduced the concept of P-drug selection, problem-based learning, prescription writing and communicating it effectively and with empathy to the patients, and critical evaluation of drug promotion literature as part of clinical pharmacology for MBBS students. Students were given hands-on experience to administer drugs through various routes. In addition, AETCOM module was introduced to improve the communication skills of the undergraduate students with special reference to the optimal use of prescribed medications.

Publications

Labh, R., Gupta, R., Narang, M., Halder, S., & Kar, R. (2021). Effect of valproate and add-on levetiracetam on inflammatory biomarkers in children with epilepsy., *Epilepsy & behavior: E&B*, (125), 108358, 1.

Laxmi V, Gupta, R, Gulati K, Ray A. (2021). Anti- Allergic Effect of Sildenafil and Tadalafil in Ovalbumin Induced Bronchial Asthma in Rats, *International Journal of Plant, Animal and Environmental Sciences*, (11), 341-350.

Pippal, N., Halder, S., Srivastava S., Kar, R., Gupta, R., & Anthonio, A. E. (2021). Correlation between telomere length and efficacy of oral and long-acting injectable antipsychotics on severity and cognitive impairment of schizophrenia, *International*

journal of psychiatry in clinical practice, (29), 1-8.

Halder, S., & Mehta, A. K. (2021). 2-Deoxy-D-glucose: is this the final cure for COVID-19: or yet another mirage?, *European review for medical and pharmacological sciences*, 13(25), 4448-4450.

Chavan, S., Rana, P., Tripathi, R., & Tekur, U. (2021). Comparison of efficacy & safety of iron polymaltose complex & ferrous ascorbate with ferrous sulphate in pregnant women with iron-deficiency anaemia., *The Indian journal of medical research*, (154), 78-74.

Rana, P., Ghadlinge, M., & Roy, V. (2021). Topical antifungal-corticosteroid fixed-drug combinations: Need for urgent action, *Indian journal of pharmacology*, 1(53), 82-84.

Juneja, S., Rana, P., Chawla, P., Katoch, R., Singh K., Rana, S., Mittal, T., Kaur, B., & Kaur, S. (2021). Hydroxychloroquine pre-exposure prophylaxis provides no protection against COVID-19 among health care workers: a cross-sectional study in a tertiary care hospital in North India., *Journal of basic and clinical physiology and pharmacology*, 1(33), 103-107.

Bankar, M., Hotha, P. P., & Zachariah, N. E. (2021). A 5-year retrospective analysis of adverse drug reactions associated with antimicrobials in a teaching hospital of Andaman and Nicobar Islands, *Pharmaciana*, 3(11), 366-375.

Naidu, C. D. M., Hotha, P. P., & Zachariah, N. E. (2021). A 5-year retrospective analysis of pharmacovigilance study, completeness and quality of suspected adverse drug reaction forms at adverse drug reaction monitoring center Port Blair., *The Medical Journal of Basrah University*, 2(39), 92-103.



Faculty Strength

07

Physiology (UCMS)

Brief History

University College of Medical Sciences (UCMS) is the constituent college of University of Delhi.

Major Activities and Achievements

The department is actively engaged in basic and applied research in the fields of cardiovascular, respiratory, neurophysiology, clinical electrophysiology including evoked potential, yoga research, academic medicine, clinical medical ethics, and health humanities. Many innovations in health professions education have been introduced by the department, including Virtual Patients, Trigger Films, Moodle based blended learning, Problem-Based Learning, Objective Structured Practical Examination, health humanities, disability competencies, and physiology ethics in teaching learning methodology.

Honours/Distinctions

Dr. Neelam Vaney was presented with the Dr. K Puthuraya Best Teacher Award at the 67th APPICON Dr. Neelam Vaney appointed as Dean, Faculty of Ayurvedic & Unani Medicines, Homeopathic Sciences, University of Delhi, Delhi.

Dr. Neelam Vaney appointed as Observer M.B.B.S. Programme of Studies-Sir Seewosagur Ramgoolam Medical College (SSRMC), University of Mauritius, Reduit, Mauritius - 2016 Onwards.

Dr. Neelam Vaney appointed member, Board of studies at Pt. Deen dayal Medical college, Rohtak.

Dr. Satendra Singh selected as Co-Chair of the International Council for Disability Inclusion in Medical Education.

Dr. Satendra Singh selected as member of Disability Core group at National Human Rights Commission.

Dr. Satendra Singh

Selected nominated as member from India in the Governing Council of International Alliance of Academies of Childhood Disability. Selected as Bucksbaum International Scholar, Bucksbaum Institute for Clinical Excellence at University of Chicago.

Selected as Member, Delhi State Committee for Research on Disability (2019-2022).

Selected as member of the Standards Development Group to develop global WHO Standards for Wheelchair Service Provision.

Selected as member, State Advisory board for State Commissioner (Disabilities), Govt. of Delhi.

Dr. Farah Khaliq

Appointed member, Board of studies at J.N. Medical college, AMU, Aligarh.

Appointed member, Board of studies at Hamdard Institute of Medical Sciences and Research, Jamia Hamdard, New Delhi.

Dr. Manish Gupta, selected as member of Physiology PRC (Project Review Committee) Indian Council of Medical Research.

Dr. Asha Yadav appointed as member of the admission committee for the B.Sc. and M.Sc. Radiography courses jointly at UCMS and JIPMER by Dean, FMS, University of Delhi.

In the guidance of Dr. Shilpi Goyal, ICMR-STs 2022 project got selected "Evaluating effect of chronic air pollution exposure by comparing lung function of Delhi residents to non-residents".



Publications

Singh S, Khan AM, Dhaliwal U, Singh N. (2022). Using the health humanities to impart disability competencies to undergraduate medical students., *Disabil Health J*, (1) (15).

Singh S, Meeks LM. (2022). Disability inclusion in medical education: Towards a quality improvement approach.

Gangwani N, Singh S, Khaliq F. (2022). Trigger films to teach core competencies of ethics and professionalism to first-year medical and nursing students, *Adv Physiol Educ*, 3(46), 491-497.

Petersen, K., Sheets, Z., Singh S., et al., (. (2022). Inclusive medicine and medical education: increasing the number of clinicians with disabilities, *Oxford Research Encyclopedia of Global Public Health*.

Singh S. (2022). Disability-inclusive vaccine equity framework for persons with disabilities in India: A call to action, *Research and Humanities in Medical Education*, 10(9).

Mishra, G, Gupta, M, Vaney N. (2021). Effect of Internet Addiction on Cognition - An Event Related Potential (P300) Study, *Int J Clin Exp Physiol*, 3(8), 122-5.

Khetarpal A & Singh S. (2021). Disabled lives in India with an undercurrent of pain. In: Padfield D, and Zakrzewska JM (Eds). *Encountering Pain: hearing, seeing, speaking*. London: UCL, *UCL Press*, 300-14.

Seminars Organized

Aqsa Shaikh, Sanjay Sharma Anant Bhan etc, HIMSR, SANGATH, ATHI, Transgender Health: Towards Equity and Social Justice, Transgender Health: Towards Equity and Social Justice, 23-11-2022.

Seminar/Conference Presentations

Dr. Singh gave invited talk on 'Barriers and enablers for people with disabilities in health

profession, education & practice' at the Indian Society of cornea & Keratorefractive Surgeons conference at AIIMS, New Delhi on 2022, January 21.

Dr. Singh was invited speaker for 'Broadening the horizon: Humanities in Medicine' at the launch of Medical Humanities and Ethics Unit, Faculty of Medicine, Universiti Malaya on 2021, October 23.

Dr. Singh was speaker at Mental Health Day Conference at HIMSR, New Delhi on 2021, October 08

Dr. Shilpi Goyal was awarded Young Investigators Fellowship in an oral presentation at 16th National conference, Asian- Pacific Congress of Hypertension-APCH 2021 held in Pride Plaza Hotel, Aerocity, New Delhi from 2021, November 24-27.

Other Inter-Institutional Collaboration

Dr. Satendra Singh appointed as adjunct Faculty, Department of Medical Education, KMC Manipal Academy of Higher Education.

Dr. Neelam Vaney appointed as External Examiner M.B.B.S. Programme of Studies- To oversee the curriculum and conduct of I Prof., II Prof. & Final Prof. M.B.B.S. (Part I & Part II) examinations for academic year- Sir Seewosagur Ramgoolam Medical College (SSRMC), University of Mauritius, Reduit, Mauritius - 2016 Onwards.

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Physiology (LHMC)

Brief History

The department was started from inception of the medical college in 1916. The department of Physiology is involved in the teaching of undergraduate (MBBS) and Postgraduate (MD Physiology), B.Sc. nursing and Post Trauma Training (PTT) course. An Inter Collegiate Physiology Quiz has also been organised by the department every year since 2015.

Major Activities and Achievements

The Department conducted all online & offline academic activities of MBBS, MD, Nursing & PTT students. Various research programs which includes recording of neurophysiological tests including P300, Nerve Conduction Velocity (NCV), Cognitive Functions, Pulmonary Function Tests (PFT) and Heart Rate Variability (HRV) were done in the Department. The studies involved the patients of Parkinsonism, Chronic Obstructive Pulmonary Disease (COPD), Epilepsy, Obesity, Migraine, Asthma, Opioid Use Disorder Patients and Hypothyroidism.

Department of Physiology has successfully organized online Sixth Intercollegiate Undergraduate Physiology Quiz Competition at Dept. of Physiology LHMC from 7th to 18th October 2021 and successfully Organized "International Webinar Series on Complementary & Integrative Health Medicine" from 11th November, 2021 to 13th November 2021.

Online International Yoga Day Celebration was successfully organized by Dept. of Physiology LHMC on 21st June 2021. The Faculty members were posted for duties during COVID -19 Pandemic in Covid Control Room, at LHMC.

Publications

Namita, Mondal S, Bandhu R. (2021). Mechanism of Biological Aging - A Review., *International Journal of Physiology*, Volume 9 No. 1(January-June 2021), 30-36.

Research Projects

DST, 2020-2021, Effect of an integrated Yoga program on stress, mood states, sleep quality, symptom severity, quality of life and clinical outcomes in Covid19 positive patients undergoing conventional treatment: A Multicentric trial., Rs.27,56,860/-

2020-2021, Circadian & Seasonal variation of Migraine attacks in Indian Population.

Seminars Organized

Dr. Smita Deshpande, Prof. at Centre of Excellence in Mental Health ABVIMS-Dr. RML Hospital, N Delhi, Role of Yoga in Management of Stress during the Pandemic, International Yoga Day, 2021, July 21.

Conferences Organized

International Webinar Series on Complementary & Integrative Health Medicine" from 11th November, 2021 to 13th November 2021. Organizing Chairperson: Dr. Sunita Mondal Organizing Secretary: Dr. Anita Pawar Dr. Madhulika Monga Organizing Chairperson: Dr. Sunita Mondal Organizing Secretary: Dr. Anita Pawar Dr. Madhulika Monga, 2021, November 11.

All India Inter Collegiate Physiology Quiz Competition at Deptt of Physiology LHMC from 7th to 18th October 2021. Organizing Chairperson: Dr. Sunita Mondal Organizing Secretary: Dr. Anita Pawar Dr. Madhulika Monga, 2021, October 07.

Seminar/Conference Presentations

Online CME & Workshop 2021 "Recent Trends in Assessing Lifestyle Stress and The Road to Recovery" Workshop entitled "Tools and techniques to assess lifestyle stress". on 14th September 2021. Organised by Department of Physiology MAMC, New Delhi Chairperson: Dr. Sunita Mondal Delegates: Dr. Rajiv Bandhu Dr. Sujata Gautam Dr. Anita Pawar Dr. Gaurav



Swami Dr. Mary Vibha Dr. T K Kishore Dr. Shweta Dr. Pankaj Kumar.

Revised basic course workshop in medical education Technologies from 6th to 8th September 2021 at MEU, LHMC, N Delhi. Organised by NMC Regional Centre for MET MAMC, New Delhi. Resource Faculty: Dr. Madhulika Monga Participants: Dr. Rajiv Bandhu Dr. Sujata Gautam Dr. Anita Pawar National webinar on "Attainment of Quality Benchmark in Medical Education: Responsibilities of a Health Institution" on 3rd and 4th December 2021. Organised by IQAC, KGMU in collaboration with ECHO India. Delegates: Dr. Madhulika Monga, Dr. Anita Pawar.

VC Training Workshops on PFMS Expenditure, Advance & Transfer (EAT) Module on 28th April'2021. Organised by: Scholarship Section Ministry of Tribal Affairs, New Delhi. Participant: Dr. Sujata Gautam, Dr. Mary Vibha Lakra.

Webinar Series "Data analysis of survey Design –Jan 7-8,2022. Organised by Indian Spinal Injuries Centre, New Delhi. Participant: Dr. Sujata Gautam, Dr. Mary Vibha Lakra.

Workshop on "Brain Imaging and Mapping Protocols for Humans", Indian Academy of Neuroscience; Delhi-NCR Chapter on Saturdays (2pm -5pm) 3rd, 10th, 17th, 24th & 31st July 2021. Organised by: Department of Physiology and Biochemistry, AIIMS, New Delhi. Delegate: Dr. Sujata Gautam.

Workshop on "Methodologies for Qualitative Research in Medical Education" & "Publishing and promoting your Medical Education Manuscript" on 2nd September 2021. Organised by: Department of Medical education, JIPMER, Puducherry in association with Alumni Association of NTTC JIPMER (AANJ). Delegate: Dr. Madhulika Monga.

BMSeCON 2021 2nd International e-conference on "Exploring the newer modalities in teaching learning and research in Basic Medical Sciences during COVID era" from 25th to 27th November 2021 Organised by: Departments of Anatomy, Biochemistry, Physiology and Center for Biomedical Research, AVMCH, Puducherry. Delegate: Dr. Madhulika Monga.

National Webinar on "Learning Soft Skills for Successful Practice" held on 10th July, 2021. Organised by: University Centre for Health Professions Education, Sri Devaraj Urs Academy of Higher Education and Research, Kolar. Delegate: Dr. Anita Pawar.

SAARC workshop on Techniques in Physiological Sciences (TIPS workshop)-2021 from 1st to 3rd December 2021. Organised by: Dept. of Physiology AIIMS, New Delhi. Delegate: Dr. Mary Vibha Lakra...

Faculty Strength

14

Physiology (MAMC)

Brief History

History of Physiology department dates back to period of 1958-59, when prestigious, MAMC was started attached to Irwin hospital.

Major Activities and Achievements

The department of physiology is concerned with teaching, research and administrative works. Undergraduate Students of MBBS,

BDS, Nursing, MLT and BPO are taught. Postgraduate MD students are taught, trained, and guided in various teaching learning methods as well as, scientific research projects. The faculty and residents managed the COVID patients admitted in the New Special Ward, LNH.



Dr. Aarti sood Mahajan, Director Prof. and Present HOD, is an honorary member of the medical education unit of MAMC.

Dr. V. P. Varshney, Director Prof., is HOD Physiology, Delhi University.

Dr. Bal krishana, Director Prof. is chairman of the research cell of MAMC.

Dr. Preeti Jain, Prof., is a member of the editorial board MAMC Journal of Medical Sciences.

Honours/Distinctions

Dr. Preeti Jain was appointed as a member of the newly constituted IEC of Pt. Deendayal Upadhyaya National Institute of Persons with Physical Disabilities, New Delhi in June 2021.

Dr. Preeti Jain was Selected and Appointed as External Examiner for public defense of Ph.D. thesis held on 28 July 2021 at AIIMS, New Delhi.

Dr. Ravi Kaushik became National Accreditation Board for Hospitals & Healthcare Providers full assessor after attending the NABH Assessor Course for Hospital Accreditation Program. Dec, 2021.

Dr. Ravi Kaushik was nominated the Chairperson for the Independent Ethics Committee of Waves Women Empowerment Trust, New Delhi, registered under Central Drugs Standard Control Organization Directorate General of Health Services, Govt. of India.

Publications

Mahajan AS. (2021). Early clinical exposure to blood bank: the visit could boost up awareness of blood transfusion in medical students., *Int J Basic Appl Physiol*, 10(2), 4-9.

Agarwal P, MahajanAS. (2021). Need based role of E- learning in current medical education environment: Skepticism to Acceptability, *JCDR*. 15(8), JE01-JE06.

MahajanAS. (2021). Do faculties remain motivated after attending medical education workshops and what innovations do they bring about at workplace?, *J Med Educ Dev.*, 14(42), 11-19.

MahajanA, Mahajan. (2021). Introducing pediatrics as early clinical exposure to medical students. Need of the hour., *South-East Asian Journal of Medical Education*, 15(2), 52-54.

Mahajan AS, Rakheja G, Kaushik S, Arora P, Chitkara A, Verma R. (2022). Experiences with Horizontal and Vertical Integration in Competency-based Physiology Education, *MAMC J Med Sci*, 8(85), 85-91.

Jain A, Jain P. (2021). Inter-relationship between gaming addiction, emotional intelligence, and psychological well-being of PlayerUnknown's Battlegrounds and non-PlayerUnknown's Battlegrounds online mobile game players: A comparative cross-sectional study., *Acta Med Int*, (8), 117-124.

LaPelusa A, Kaushik R. (2022). Physiology, Proteins., *StatPearls*.

Bardhan M, Kaushik R. (2021). Complement Cascade., *StatPearls*.

Research Projects

MD (Physiology) Thesis, 2019-2021, A study of thyroid function tests and inflammatory markers in acute ischemic stroke patients.

MD (Physiology) Thesis, 2019-2021, Psychological, Emotional and Cognitive effects of Rajayoga meditation in young adults with Internet Addiction.

UK funded, ongoing, ASTRA (Addressing Smokeless Tobacco Use & Building Research Capacity in South Asia - Astra South Asia).

Conferences Organized

CME on "Recent trends in assessing lifestyle stress and the road to recovery" and Workshop on "Tools and techniques to assess lifestyle stress" Chairperson was Dr. V.P. Varshney; Co-chairperson was Dr. D.



Robinson; Organising secretary was Dr. Mona Bedi; Co-organising secretary were Dr. Bal Krishana and Dr. Aarti Sood Mahajan; Joint organising committee included Dr. Dayaram Haldwani, Dr. Preeti Jain, Dr. Kamal Jindal, Dr. Aquil Ahmad, Dr. Payal Bhalla and Dr. Ravi Kaushik., 14-09-2021.

Seminar/Conference Presentations

Revised basic workshops on medical education technology April, August, October, 2021 and others.

Extension and Outreach Activities

The department collaborates with other institutes like AIIMS, DRDO, NBE, PGIMER and other state level universities.

Our faculty are examiners and participate in research activities, conferences and in administrative capacity.

Faculty Strength

11

Psychiatry (MAMC)

Brief history

The Department of Psychiatry was established in 1958, and since its inception has been providing evidence-based treatment to patients of psychological issues and psychiatric illness, delivering training to doctors (MBBS, MD, Nursing, PGDGM, etc.) who have earned a good name in this specialty both in India and abroad. It played a pivotal role in the care of mental health of COVID-19 patients of LNJP hospital in recent past. It caters consultation liaison psychiatry service to all departments of Maulana Azad Medical College and allied hospitals. It trains three MD (Psychiatry) postgraduates each year.

Major Activities and Achievements

Clinical activities- indoor and outdoor patient care services.

Emergency round the clock referral services from all the hospital allied to MAMC

Publications

P S Biswas, D Ram, S K Munda. (2021). Quantitative Electroencephalography in Patients with Depression and Epilepsy Spectrum Disorder and Its Correlation with Clinical Features of Depression., *East Asian Archives of Psychiatry*, 2(31), 43-46, 1.

Jakhar J, Biswas PS, Kapoor M, Panghal A, Meena A, Fani H, Kharya P. A. (2021). A comparative study of the mental health impact of the COVID-19 pandemic on health care professionals in India., *Future Medicine (Microbiology)*, 16(16), 1267-1276, 1.

Choudhuri AH, Duggal S, Ahuja B, Biswas PS. (2021). The efficacy and safety of hydroxychloroquine (HCQ) in treatment of COVID-19 – A systematic review and meta analysis., *Indian Journal of Medical Microbiology*, 1(1), 319, 1.

Choudhuri AH, Duggal S, Singh J, Biswas PS. (2022). Safety and efficacy of convalescent plasma as a therapy for SARS-CoV-2: a systematic review and meta-analysis', *Journal of Anaesthesiology Clinical Pharmacology*, 1(38), S22-S33, 1.

Gupta, M, Biswas PS., Gupta, A. . (2021). COVID 19-related Burnout among Healthcare Workers in India and ECG based Predictive Machine Learning Model: Insights from the BRUCEE- Li Study, *Indian Heart Journal*, 6(73), 674-681, 1

Research Projects

2020-2022, The prevalence of acute complications of Covid-19 pneumonia: A systematic review and meta-analysis.



2020-2023, The study of Effect of modified electro-convulsive (MECT) treatment on the clinical profile & outcome of mentally ill persons in a tertiary care general hospital psychiatry unit.

Faculty Strength

Prof.: 01
Director Prof.: 01
Associate Prof.: 04

Pulmonary Medicine (VPCI)

Brief history

Vallabhbhai Patel Chest Institute has come into being as it was realized that there was a paucity of trained personnel in specialty of chest medicine in the independent India. Sardar Vallabhbhai Patel, the first Home Minister and Deputy Prime Minister of India laid the foundation stone on 06th April 1949 and the Institute was formally inaugurated by Smt. Raj Kumari Amrit Kaur, the Union Minister of Health on 12th January 1953. The Clinical Research Centre (now renamed as Viswanathan Chest Hospital), hospital wing of the Institute was inaugurated by the then President of India, Dr. Rajendra Prasad on 24th October 1957. The department has been engaged in post-graduate medical teaching through DTCD, MD and DM Courses in Pulmonary Medicine; training professionals, conducting research and providing patient care with state-of-art diagnostics in the field of Pulmonary Medicine.

Major Activities and Achievements

Clinical facilities available at the department include OPD, IPD, RICU, 24-hour Respiratory Emergency, DOTS Centre, Tobacco Cessation Clinic, National Yoga Therapy Centre, Cardio-Pulmonary Rehabilitation Clinic etc. Specialized investigations available at VCH include Pulmonary function tests, Arterial blood gases, Polysomnograms (Sleep Laboratory), Fibreoptic bronchoscopy, Respiratory Allergy Skin Tests, Clinical Immunology, Computed Tomography, Guided FNAC, BACTEC System for Tuberculosis, diagnostic facilities in Mycology and Virology.

At hospital-wing, over 14,650 new patients

registered for consultation and 34,000 old patients came for follow-up. Indoor General Ward admitted over 10,400 patients and Emergency Ward admitted 1787 patients and provided Emergency treatment to over 18,600 patients. RICU admitted 1,568 patients for intensive care. No. of diagnostic tests were: 2,990 Pulmonary Function Tests, 1,460 CT scans, 25,543 X-Rays, 2,900 ECGs, 23,738 Arterial Blood Gases, 200 Bronchoscopy, 11,168 Skin Tests, 62,738 Clinical Biochemistry, 35,437 Pathology, 6,500 Immunology Lab, 15,000 Microbiology. Cardio-Pulmonary Rehabilitation Clinic provided services to 169 patients. National Tobacco Quit Line Service registered over 1,02,100 callers for counselling on the Interactive Voice Response (IVR) out of which 33,894 quit successfully with success rate of 33.19%. Over 800 patients availed Telemedicine services offered by VPCI. At the Pollen Count Station, a total of 730 slides were mounted and analyzed.

Honours/Distinctions

Dr. Raj Kumar was Member, Standing Committee (Students) of the Academic Council, University of Delhi .03.06.2021.

Dr. Raj Kumar was an Expert, selection committee of the Department of Sports and Physical Sciences for promotion of Assistant Prof. (Stage II) to Associate Prof. (Stage IV) under CAS 2018 on 8th June, 2021 at Ramjas College, University of Delhi, Delhi.07.06.2021.

Dr. Raj Kumar was Advisor, Celebrating 75th year of Excellence in Higher Education and



Research – Inaugural Ceremony of 'Platinum Jubilee' of LIS Department organised by Department of Library and Information Sciences, University of Delhi on 20.07.2021.

Dr. Raj Kumar was Member, Scientific Advisory Committee New Delhi Tuberculosis Centre, State TB Training & Demonstration Centre, JNU, Delhi on 04.10.2021.

Dr. Raj Kumar was Anti-Discrimination Officer, University of Delhi extended tenure for a period of one year w.e.f. 11-17.11.2021.

Dr. Raj Kumar was Member, Expert Committee on Diagnostic Research on Paediatric and Extra-Pulmonary Tuberculosis vide ICMR, India Tuberculosis Research Consortium, Division of ECD Unit TB, Lep., Tribal Health dt. 12.01.2022; was Member, Medical Sciences Courses Admission Committee for the year 2022, University of Delhi, Delhi dated 07.03.2022; was University Representative on the Governing Body of Ramjas College for a period of one year w.e.f. 14.03.2022 vide order University of Delhi, Delhi dt.21.03.2022.

Dr. Parul Mrigpuri was felicitated by Vice Chancellor on 1st July 2021 (Doctor's Day); was Nodal officer for observance of Swatchhta Pakhwada by VPCI; was Convener, Group B for formulation of Indian guidelines for diagnosis of Respiratory Allergy; was Panel member, Group B for formulation of Indian guidelines for nebulization therapy; was Resource person, VPCI (Center of excellence for climate sensitive allergic diseases).

Dr. Parul Mrigpuri substantially contributed to the developed of training modules on allergy and climate change for state nodal officers, medical officers, paramedical officers and community-based modules.

Publications

Nitin Goel, Nitesh Goyal, Ravishankar Nagaraja, Raj Kumar. (2021). Systemic corticosteroids for management of 'long-COVID': an evaluation after 3 months of treatment., *Monaldi Archives for Chest Disease*, 92(2), 1981, 5.

Nitin Goel, Nitesh Goyal, Raj Kumar. (2021). Clinico-radiological evaluation of post COVID-19 at a tertiary pulmonary care centre in Delhi, India., *Monaldi Archives for Chest Disease*, 91(3), 1682, 5.

Nitin Goel, Nitesh Goyal, Sonam Spalgais, Parul Mrigpuri, Balakrishnan Menon, Raj Kumar. (2021). Protracted non-invasive ventilation for severe hypoxemic respiratory failure in Long COVID: a case series, *Critical Care Innovations*, 4(3), 20-26, 1.

Mrigpuri P, Sonal S, Spalgais S, Goel N, Menon B, Kumar R. (2021). Uncontrolled diabetes mellitus: A risk factor for post COVID fibrosis, *Monaldi Archives for Chest Disease*, 25(91), 1607, 8.

Yadav R, Nagori A, Mukherjee A, (2021). Effects of ambient air pollution on emergency room visits of children for acute respiratory symptoms in Delhi, India, *Environ Sci Pollut Res Int*, 28(33), 45853-45866, 3.

Yadav SR, Kumar R, Ish P, Gupta, N. (2021). Smoking cessation in COVID-19: A silver lining to the cloud., *J Mental Health Hum Behav*, 26(1), 85-87, 1.

Spalgais S, Mrigpuri M, Kulshrestha R and Kumar. (2021). Pneumonic type adenocarcinoma: Empirical ATT delaying diagnosis for 1.5 year, *Medical Journal Armed Forces India*, 1063(online), 26, 1.

Kumar R, Yadav SR. (2021). Continuous Positive Airway Pressure Compliance: Addressing the Elephant in the Room, *J Sleep Med*, 16(4), 95-96.

Research Projects

Ministry of Health & Family Welfare, Govt. of India, 2016-2023, National Tobacco Quit Line Services (NTQLS), Rs. 2,30,00,000/-

Seminars Organized

Various speakers, organized by VPCI and ICAAI (Indian College of Asthma & Applied Immunology), Lectures and practical sessions



on various aspects of Allergy, APAAAC Allergy Week, 2021, April 13.

Various faculty members, organized by NCRAAI, VPCI supported by Society for Tobacco Control, 3-day course covering various topics on Respiratory Allergy and Immunotherapy, Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy, 2022, March 11-13.

Various faculty members, organized by Adverse Drug Reaction Monitoring Centre, VPCI, Various topics on Pharmaco-vigilance – a step towards patient's safety, Continuing Medical Education (CME), 2021, September 21.

Seminar/Conference Presentations

Dr. Raj Kumar was Chairperson, ICAAI Allergy Asthma Chat in association with BAF Academy through virtual mode on, 2021, May 16.

Dr. Raj Kumar delivered Guest Lecture, 'Psychological Impact of Corona Virus in India' during Online National Conference on COVID-19 and its psychological effects organised by Department of Chemistry, Rajdhani College, University of Delhi, Delhi on, 2021, April 30.

Dr. Raj Kumar delivered Guest Lecture, on 'COVID-19 in tobacco Control' during Webinar on 'Challenges in Tobacco Control During COVID-19 Pandemic on, 2021, May 31 at Delhi.

Dr. Raj Kumar delivered Guest Lecture, on 'Food Allergy' during Webinar on 'World Allergy Week' (Virtual) organised by Dept. Of Pulmonary Medicine, ERA'S Lucknow Medical College & Hospital, Lucknow under the aegis of ICAAAI (North Zone) on, 2021, June 22

Dr. Raj Kumar was Chief Guest, Inauguration of 22nd Workshop of Allergy Testing and Immunotherapy Training Program on, 2021, July 29-31 at National Allergy Centre, East Patel Nagar, New Delhi -110008.

Dr. Raj Kumar was faculty Skin Prick Test – Practical Demonstration and Cases during

Certificate course on "Diagnosis of Allergy and Immunotherapy" from, 2022, March 11 - 13 organised by NCRAAI, VPCI, Delhi.

Dr. Parul Mrigpuri Organised Observance of World Health day (7-04-2021) during Swachhta Pakhwada (2021, April 1-15).

Dr. Parul Mrigpuri delivered Faculty lecture on "Cough etiquettes and proper use of face mask" during Observance of World Health day (7-04-2021) under swachhta Pakhwada (2021, April 1-15).

Dr. Siddharth Raj Yadav imparted practical hands-on training in SPT: Proficiency testing during the Certificate course on Respiratory Allergy and Immunotherapy, VPCI Delhi, 2022, March 12-13.

Dr. Siddharth Raj Yadav presented poster on COVID-19 lockdown and improvement in air quality index: A tale of two cities during NAPCON 2021.

National/International MoUs Signed

MOU with AIIMS, Deogarh for collaboration in research, training and patientcare activities.

Other Inter-Institutional Collaboration

All India Institute of Medical Sciences, New Delhi.

Defence Institute of Physiology and Allied Sciences, DRDO, Delhi.

Indian Council of Medical Research (ICMR).

Institute of Nuclear Medicine & Allied Sciences, DRDO, Delhi.

Lady Hardinge Medical College, New Delhi.

Rajan Babu Institute for Pulmonary Medicine & Tuberculosis (RBIPMT), New Delhi.

SRM University.

Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi.

Placement Details

100%

Extension and Outreach Activities

Tobacco Cessation Clinic offering clinical and counselling services to quitters.



Pollen Count monitor with digital displays installed at VPCI for public view: To help create awareness about pollen concentration in the air, which is one of the major reasons for repeated attacks in asthma patients.

Post-Covid Respiratory Management Centre: The Centre is catering to all patients of Post-Covid having persistent symptoms like dyspnoea, cough, chest pain etc through multidisciplinary approach comprising Pulmonologist, Yoga Therapist, Nutrition Counsellor, Psychologist and Pulmonary Rehabilitation specialist.

Patient Education Centre(PEC) in the hospital premises offer access to audio-visual and

printed educational materials to the patients and visitors in the area of respiratory diseases and their effective management.

Tele-medicine services: Over 800 patients availed the tele-medicine services offered by the department during the period.

Faculty Strength

Director: 01

Director Prof.: 01

Assistant Prof.: 05

Medicine (UCMS)

Brief History

Department of Medicine of UCMS- GTB Hospital was established in 1987 with the shifting of UCMS to its new campus at GTB Hospital, Dilshad Garden, Delhi. From inception of the Department, Faculty has been a blend of two streams- one from University and other from Central Health Services.

Major Activities and Achievements

Department of Medicine at UCMS-GTBH has been providing patient care services to vast number of inpatients as well as outpatients through its general OPDs along with dedicated wards, coronary care and dialysis units and round the clock emergency services. Both undergraduates and postgraduates continue to perform very well for MD and DM examinations in major institutes including AIIMS, PGI, KGMU, GB Pant Hospital and SGPGIMS to name a few.

Publications

Aggarwal A, Gupta, A, Agarwal MP, Kushwaha S, Sharma R, Gupta, AK. (2022). Apparent Treatment – Resistant Hypertension in Hypertensive Stroke Patients., *J Int Med Sci Acad*, 2(35), 109-115.

Aggarwal A, Bansal L, Jain M. (2021). Simultaneous occurrence of cerebral bleed and infarct, *J Intern Med India*, 5(15), 6-8.

Aggarwal A, Thakur SK. (2021). Approach to anemia with caveats in focus, *J Intern Med India*, 5(15), 2-3.

Dwivedi S, Aggarwal A. (2021). Medical Schools in National Capital Territory - a Historical and Functional Perspective., *Ann Natl Acad Med Sci*, 1(55), DOI:10.1055/s-0041-1736505.

Aggarwal A, Raizada N, Chikra A, Gupta, AK, Hariharan N. (2021). Lipid abnormalities in patients with newly diagnosed hypertension., *International Journal of Health and Clinical Research*, 4(18), 239-244.

Mishra, A, Grover Signal A, Narang S, Das GK Das. (2021). Nailfold capillary changes in newly diagnosed hypertensive patients: An observational Analytical study., *Microvascular Research*, 104173(136), doi: 10.1016/j.mvr.2021.104173.

Khobragade A, Bhate S, Ramaiah V, Deshpande S, Giri K, includes Narang S.



(2022). (ZyCoV-D phase 3 Study Investigator Group) 2022 Efficacy, safety, and immunogenicity of the DNA SARS-CoV-2 vaccine (ZyCoV-D): The interim efficacy results of a phase 3, randomized, double-blind, placebo-controlled study in India, *Lancet*, 10332(399), 1313-1321.

Sharma A, Srivastava. (2021). Perceptions and beliefs on vaccination for COVID-19 in Delhi: A cross-sectional study., *Ind J Med Specialties*, 3(12), 151-154.

Margekar SL, Devi MS, Bansal P, Srivastava A, Aggarwal R, Saluja A, Dhamija RK. (2021). Chronic Inflammatory Demyelinating Polyneuropathy with Diabetes, Crohn's disease and multiple co-infections: A Clinical Quandry., *J Assoc Physicians India*, 9(69), 11-12.

Bansal P, Srivastava A, Aggarwal R, Dhamija R. (2021). Measles in Immunized Medical Residents: Case Series with Brief Review., *Journal of Family Medicine and Primary Care*, 1(10), 4311-13.

Research Projects

DHR-ICMR, 2021-2023, IMPETUStroke: Implementation of an evaluation and treatment package for uniform stroke care and outcomes in the medical colleges in India. An Implementation study, Rs. 3,59,515/-

Biological E, one year, a prospective open label randomized phase-I seamlessly followed by phase-II study to assess the safety, reactogenicity and immunogenicity of Biological E's novel Covid-19 vaccine containing Receptor Binding Domain of SARS-CoV-2 for protection against Covid-19 disease when administered intramuscularly in a two-dose schedule (0, 28D) to healthy volunteers, Rs. 8,65,000/-

Cadila Healthcare, 1.5 years, A phase III, randomized, multi-centre, double blind, placebo controlled, study to evaluate efficacy, safety and immunogenicity of Novel Corona Virus-2019-nCov vaccine candidate of M/s Cadila Healthcare., Rs. 28,10,000/-

Biological E, one year, A Prospective, multicentre, Phase II Seamlessly Followed by Phase III Clinical Study to Evaluate the Immunogenicity and Safety of Biological E's CORBEVAX Vaccine for Protection Against COVID-19 Disease When Administered to COVID-19-Negative Adult Subjects., Rs. 8,70,000/-

Biological E, one year, A Prospective, Single blind, Randomized, Active-controlled Phase III Clinical Study to Evaluate the Immunogenicity and Safety of Biological E's CORBEVAX Vaccine for Protection Against COVID-19 Disease When Administered to RT-PCR Negative Adult Subjects., Rs. 7,00,000/-

Conferences Organized

Dialogues in Diabetes, New Delhi, 2021, July 21 UPDA GBN CHAPTER

Seminar/Conference Presentations

Aggarwal A
16th Asian-Pacific Congress of Hypertension (APCH 2021), New Delhi, India, 2021, November 24-28.

4th Annual Conference of Innovative Physicians Forum, New Delhi, 2021, October 9-10.

National Symposium on Preventive Cardiology, National Academy of Medical Sciences, New Delhi, 2021, April 8 Raizada A.

APICON 2022, Jaipur. 2022, April 14-17 Sharma A.

29th Annual Conference of Delhi Diabetic forum, DIABCON 2021, 2021, October 02-03 at New Delhi (as faculty).

Post conference workshop of 43rd Annual Association of Obstetrics and Gynecologists of Delhi conference on Non-Hemorrhagic Maternal Collapse on 2021, November 23 at New Delhi (as panelist).

7th Annual conference of Indian Society of Chrono medicine, World Congress on Chrono



medicine9 WCC 2021) 2021, December 17-19 at Noida, UP (as faculty) Narang S.

Khongsai L, Yadav A, Narang S, Gogoi P, Das S. Association between Serum ferritin and Blood pressure in post-COVID males and females: A pilot study at 16th Asian-Pacific Congress on Hypertension 2021, November 24-28 at New Delhi.

Goswami SJ, Gogoi P, Diwaker P, Kapoor R, Narang S. 2021. Predictive values of haematological parameters, Neutrophil Lymphocyte ratio and derived neutrophil

lymphocyte ratio on disease severity in COVID-19 patients, Haematocon 2021 Srivastava A.

Conferences presentations: 1 National: APICON 2022 Jaipur; Topic- Acute kidney injury in tropics

Faculty Strength

Prof.s: 06

Associate Prof.: 01

Assistant Prof.s: 04

Radiology, Radiotherapy, Radiodiagnosis & Radiation Medicine (LHMC)

Brief History

Lady Hardinge Medical College for women was founded in 1914 to commemorate the visit of Her Majesty Queen Mary in 1911-12. Foundation stone of this institution was laid by Lady Hardinge on 17th March, 1914. College and hospital were formally opened by Lord Hardinge the then Viceroy of India on 17th February 1916.

Major Activities and Achievements

Department conducts clinical as well as research work, under the guidance of our expert and experienced senior faculty. The students are exposed to a wide diversity of cases, providing good learning opportunities. A new Digital Radiography Fluoroscopy system (Siemens Healthcare) and a state-of-art 256 slice Dual Energy CT (Siemens Somatom drive) were installed in the department. This has enabled us to improve our patient care services, and also enhance resident education. A public awareness program on radiation safety was conducted by the department.

Honours/Distinctions

Dr. Chetna Mishra, & Dr. Rama Anand: Role of cine fluoroscopy in prosthetic heart valve: does it have a role in present era? Second prize under E- Poster category Cardiac imaging masterclass June 2021.

Dr. Raveena & Dr. Nishat Amina: MDCT evaluation of prostatic rhabdomyosarcoma in a child- a rare cause of urinary tract obstruction. Second prize under E- Poster category Global radiology summit 2021.

Dr. Prerana, Dr. Pooja Abbey & Dr. R. S. Solanki: Ultrasound evaluation of bowel pathologies presenting as acute abdomen in children. Third prize under E-poster category Ultravision 2021.

Dr. Priya Chaudhary, Dr. Bhawna Satija & Dr. R.S. Solanki: Imaging in uncommon pelvic complications of pregnancy Third prize under oral poster presentation category IRIA 2022 74th Annual conference Bengaluru March 2022.

Dr. Divyani, Dr. Nishat Amina & Dr. Shaili Tomer: Arteriovenous shunting in hypervascular retained products of conception mimicking an AVM. First prize under E – poster category Ultravision 2021.

Publications

Mittal A, Anand R, Gauba R, Choudhury SR, Abbey P. (2021). A step by step sonographic approach to vascular anomalies in the pediatric population: A pictorial essay, *Indian J Radiol Imaging*, 1(31), 157-171.



Malakar S., Anand R., Satija B. (2021). Imaging in Uncommon Pelvic Complications of Pregnancy: *J ObstetGynecol India*, (71), 342–344.

Sahu B, Anand R, Kumar S, Solanki RS, Mehra P, Jain M. (2021). A Pattern-based Imaging Approach to Pediatric Jaw Lesions., *Indian J Radiol Imaging*, (31), 210-223.

Gulati A, Anand R, Aggarwal K, Agarwal S, Tomer S. (2021). Ultrasound as a Sole Modality for Prenatal Diagnosis of Placenta Accreta Spectrum: Potentialities and Pitfalls., *Indian J Radiol Imaging*, (31), 527-538.

Rana A, Abbey P*, Anand R, Gupta, A. (2021). Hidden in plain sight: a rare abnormality detected on CT pulmonary angiography, *Lung India*, 5(38), 491.

Abbey P*, Anand R. (2021). Pancreatoblastoma with portal venous invasion: a case series., *Indian J Radiol Imaging*, 3(31), 611-617.

Arsia A, Hazrah P, Anwar S, Thomas S, Abbey P, Singh S. (2021). Zollinger Ellison syndrome due to primary nodal gastrinoma located outside the limits of the conventional gastrinoma triangle: report of a case., *International Surgery Journal*, 5(8), 1653.

Seminar/Conference Presentations

Dr. Rama Anand Faculty

Delivered a lecture on “Imaging in Ectopic Pregnancy”. Delhi state chapter of IRIA (Indian Radiological and Imaging Association) Delhi Imaging update on, 2021, April 17 Online platform.

Delivered a talk on Bleeding per vaginum in the first trimester Society of Emergency

Radiology World Congress of Emergency Radiology, 2021, April 23-25 New Delhi.

Moderated session on chest emergencies Dr. Rama Anand Faculty- Moderated session on chest emergencies Society of Chest imaging and Interventions (SCII), Indian Radiological Imaging Association, online webinar on, 2021, July 4.

Delivered a lecture on Chest Radiographs in Neonates and Infants in ER and ICUs. Moderated poster presentation by PG students.

Delivered a Talk on ‘Paediatric Acute abdomen” Indian Radiological Imaging Association (IRIA) and Indian College of Radiology and Imaging (ICRI) DR. HARNAM SINGH MID TERM CME 2021’ on, 2021, September 21.

Moderated a session on Abdominal Imaging Indian Society of Paediatric Radiology ISPR 2021- Annual national conference of Indian Society of Paediatric Radiology, online, 30-31 October 2021.

Dr. Pooja Abbey
Conducted a quiz on Emergency and ICU CXR in children and adults Society of Chest Imaging and Interventions.

Delivered a lecture on ‘Imaging approach to pediatric chest emergencies’ (IRIA) and Indian College of Radiology and Imaging (ICRI).

Faculty Strength

Director Prof.: 03

Prof.: 02

Associate Prof.: 03

Assistant Prof.: 01



Department of Radiology, Radiotherapy, Radiodiagnosis & Radiation Medicine (UCMS)

Brief History

The Department was started with the college in 1985 and DR. S.K. Bhargava was the first head of the department, under whose leadership the department grew from an initial strength of approximately 15 staff members to the present strength of a staff of 55 and around 70 undergraduate and postgraduate students in the department.

Major Activities and Achievements

Besides MBBS teaching the Department of Radio-diagnosis is running an undergraduate course B.Sc. (Medical Technology) Radiography, two major postgraduate courses, MD Radio-diagnosis and M.Sc. (Medical Imaging Technology) Radiography.

The department boasts of excellent placement of its B.Sc. and M.Sc. (MIT) Radiography students, with many students placed in reputed organizations like Indian Railways, JIPMER Pondicherry, AIIMS New Delhi, DSSSB Delhi and PGI Chandigarh. All our post graduate students are well placed across the country both in government and private sector with many working overseas.

Honours/Distinctions

Dr. Anupama Tandon, nominated as Member of the All India Specialist Board for Discipline of Musculoskeletal Radiology of National Board of Examination in Medical Sciences since December 2021.

Dr. Anushree Katiyar: Award of merit for getting 3rd position in Third Professional (part II) examination 2018. Award of merit for getting 2nd position in Medicine in Third Professional (part II) examination 2018.

Publications

Dagar, S., & Rathi, V. (2021). (2021). Incidental floating aortic thrombus in severe pulmonary COVID-19 infection., *The Indian journal of medical research*, 5&6(153), 705–706.

Gulati, S., Rathi, V., Jain, S., & Bhatt, S. (2021). Incidentalomas of the female genital tract on 64-slice MDCT: a clinico-radiological pictorial review., *Abdominal radiology (New York)*, 9(46), 4420–4431, 1.

Bhatt S, Bansal H, Nayak S, Dangwal S. (2021). High presacral collection approached through the perineal route: A novel computed tomography-guided technique., *SA Journal of Radiology*, 1(25), a2014.

Bhatt, S., Banerjee, A., Tandon, A., Dangwal, S., & Gupta, A. (2021). A kaleidoscopic view of male urethral pathologies on 64-slice multidetector computed tomographic urethrography: A novel technique., *SA journal of radiology*, 1(25), 1964.

Yadav, V., Bhatt, S., Athallah, & Dangwal, S. (2021). Rare occurrence of dural arteriovenous fistula in a child: Multi-modality imaging and literature review, *Radiology case reports*, 4(16), 879-883.

Aggarwal A, Tandon A, Bhatt S, Aggarwal A, Dagar S, Bansal H. (2021). COVID 19 pneumonia with cavitation and cystic lung changes: multi-detector computed tomography spectrum of a gamut of etiologies., *British Journal of Radiology*, 1(3), 5.

Rohatgi A, Tandon A. (2022). A case of prenatal diagnosis of meckel-gruber syndrome in one of the dizygotic twin of a naturally conceived pregnancy., *British Journal of Radiology*, 1(8).

Tandon A, Khullar T, Maheshwari S, Bhatt S, Narang S. (2021). High resolution ultrasound in subclinical diabetic neuropathy: A potential screening tool., *Ultrasound (Leeds, England)*, 3(29), 150-161, 1.

Sihag, P., Tandon, A., Pal, R., Bhatt, S., Sinha, A., & Sumbul, M. (2022). Sonography in male infertility: a useful yet underutilized



diagnostic tool, *Journal of ultrasound*, 3(25), 675-685, 2.

Research Projects

ICMR, 2022- 2024, “Development/ and Validation Of Artificial Intelligence Tool For Screening/detection of Pulmonary TB and other lung diseases using Chest X-rays”, Rs. 36,00,000/-

ICMR, 2019-2022, To study the DNA damage and repair mechanism of the patients undergoing Multi-Detector Computed Tomography examination (MDCT), Rs. 16,00,000/-

Seminar/Conference Presentations

Dr. Anupama Tandon Icr-Iria Irep Oct- Nov 2020- Delivered talk on “Imaging approach to bone tumors” – virtual meeting.

Dr. Anupama Tandon, faculty at MSK & Genitourinary Imaging Film Reading session on 2021, February 20 of IRIA Delhi. (Virtual meet).

Dr. Shuchi Bhatt, panelist for film reading session for Postgraduate Radio-diagnosis students organized by IRIA Delhi Chapter on, 2021, February 06 - online platform.

Dr. Shuchi Bhatt, invited faculty for talk on “Imaging in Thromboembolism” in Delhi Imaging Update – 2021 organized by IRIA Delhi Chapter on, 2021, April 17 on line Platform.

Dr. Anupama Tandon, talk on “Ultrasound of the ankle and foot” at Musculoskeletal Imaging- Current Trends and applications on, 2022, April 08-09 Government Institute of Medical Sciences, Greater Noida.

Dr. Anupama Tandon, talk on “Skeletal dysplasia” in National Live Webinar series of IRIA, Delhi on 2021, November 25.

Dr. Rohit Sharma participated as delegate and presented the E-poster presentation titled cTACE in large Solitary HCC. How it responds in vascular Intervention category at the 22nd Annual Conference of Indian Society of Vascular and Interventional Radiology held in Goa from 31st March-3rd April 2022.

Dr. Rohit Sharma participated as faculty in panel discussion on adenomyosis held on 2022, January 21 virtual CME of Delhi Gynae forum.

Dr. Anupama Tandon, talk on “Radiology in Dermatological diseases” in 8 th PGCON on 2021, September 24-25 (virtual Conference).

Faculty Strength

Prof.- 04(UCMS - 03 & CHS - 01)

Assistant Prof. - 01(UCMS)

Non-Teaching - 01(Medical Specialist Grade-III from CHS)

Radiotherapy (MAMC)

Research Scheme

Ongoing projects:

Dr. Anurita Srivastava

Database creation for computational predictive analysis of treatment response assessment in Esophageal cancer patient’s in India” Project funded by extramural grant from ICMR.

Trials & tribulations of cancer patients during Covid-19 pandemic Multicenter project

ongoing.

Part of HBCR under ICMR project of National Centre for disease Informatics and Research (NCDIR).

Dr. Mohammad Azam: Research Project under the scheme: Strengthening of medical research for the year 2021-22 titled Frequency of expression and clinical significance of



Androgen receptor, E cadherin and Ki67 in triple negative breast cancer.

Publications

Kulshrestha R, Gupta, A, Sharma DN, and Singh K. Brachytherapy for Oesophageal Carcinoma: A Comprehensive Review of Literature and Techniques. *Journal of Radiotherapy in Practice* page 1 of 10.

Srivastava A, Adhikari N, Sonkar DR. "Christie Regimen" palliative radiotherapy in advanced head-and-neck cancer: A single-center experience. *J Can Res Ther* 2021; 17:88-93.

Goswami D, Singha B, Mallya V. Aggressive intra abdominal fibromatosis in an adolescent girl – An unusual sequel to ovarian germ cell tumor. *J Pediatr Adolesc Gynecol*. 2021 Dec. 24; S1083-3188(21)00359-4.

Dr. Kumar Prabhat, Dr. Kishore Singh. Chapter in proceedings of 23rd Practical Course & CME In Obstetrics and Gynecology Department of Obstetrics and Gynecology Maulana Azad Medical College & Lok Nayak Hospital, New Delhi titled – Principles of chemotherapy in gynecological cancers.

Pritika Kushwaha, Meeta Singh Varuna Mallya. Transformation of diffuse large B-cell lymphoma to lymphoblastic lymphoma. Published online DOI: 10.4103/jcrt.jcrt_66_21. (*J Can Res Ther* [Epub ahead of print] [cited 2022Mar14]. Available from: <https://www.cancerjournal.net/preprintarticle.Asp?id=330930>

Arora S, Rathi K, Singh K. Feasibility of Preirradiation Temozolamide in cases of High Grade Glioma-our experience and review of literature.

Kumar Mohit and A.S. Rao. "Influence of Tb³⁺ ions concentration and temperature on lithium bismuth alumino borosilicate glasses for green photonic device applications." *Optical Materials* 120 (2021): 111439 (Impact factor = 3.080).

Kumar Mohit, A. Srinivasa Rao and Sumandeep Kaur. "Downshifting analysis of Sm³⁺ /Eu³⁺ co-doped LiBiAlBSi glasses for red emission element for white LEDs " *Chemical Physics Letters* 788 (2022) 139303 (Impact factor = 2.328).

Books/Chapter in Bookss

Dr. Kishore Singh and Dr. Kumar Prabhat have contributed a Chapter on Principles of chemotherapy in gynecological cancer in the book *Management of Gynecological cancer*, MAMC (2021).

Dr. Arun Kumar Rathi, Dr. Savita Arora, Dr. Faiz A. Akram, Dr. Wineeta, Dr. Kavita Sehrawat – contributed a Chapter on Principles of radiotherapy in gynecological cancer in the book *Management of Gynecological cancer*, MAMC (2021).

Dr. Arun Kumar Rathi, Dr. Kavita Sehrawat – Chapter on Ca Anal Canal in *MAMC Surgery update* (2021).

Workshops/Conferences/Symposium attended

Dr. Kishore Singh: Rad Onc Conclave (National Meet) Prostate Cancer, July 30, 2021 – Faculty and judge for best paper.

UPAROICON 2020, held on 18th and 19th Dec. 2021, at Agra – Panelist in session on critics of poster session (based on MD thesis).

Indian GI Cancer Congress – Oesophagus and stomach, held on March 12 & 13, 2021, Chairperson in Discussion 2 – Multidisciplinary Tumor Board – Ca Stomach.

Dr. Savita Arora attended quiz on Ca prostate in Radonc conclave as Judge, organized by Vivekananda health mission under the banner of NZAROI on 16th July 2021.

Representation on expert committee/bodies

Dr. Kishore Singh
Representation on expert committee/bodies: Member internal Grievance Redressal Committee, MAMC.



Expert in the panel for framing of technical specification of Radiation Oncology Equipment and PET-CT at ESIC Medical College & Hospital, NH-3, NIT Faridabad, Haryana.

Chairman, Independent Expert Committee meeting for the examination of Serious Adverse Event reports, of Death occurred during clinical trials at DCG (1), CDSCO (HQ), FDA, Ministry of Health and Family Welfare, Expert member for Delhi Medical Council.

Subject expert for DNB practical examination. Secretary, MAM Research Society for Promotion of Medical Research, MAMC, Delhi.

Member expert of selection committee for recruitment of Assistant Prof. at Delhi State Cancer Institute.

Chairman committee to decide upon medical negligence matter under District Consumer Dispute Redressal Commission, Delhi at GIPMER, Delhi.

Member committee to decide on matter of writ petition in High Court by Medical Physicist, UCMS, Delhi.

Member technical expert committee for procurement of radiation oncology equipment for Lady Harding Medical College, Delhi.

Member expert of selection committee for Rajasthan Public Service Commission for the posts of Asstt. Prof. Radiotherapy for Medical Education Department.

Subject expert for standing selection committee for AIIMS, Patna for faculty selection.

Experts in the General Selection Committee for the post of Assistant Prof. in the Department of RADIO THERAPY AND CLINICAL ONCOLOGY, Faculty of Medicine, J.N. Medical College, AMU, Aligarh.

Dr. A.K. Rathi

National Convenor at National Board of Examination (NBT).

Assessor and chief coordinator of exams, dept of radiation oncology, NBE.

New Facilities added

CT Simulator installed in the department
Site modification for installation of linear Accelerator started.

Any other information:

Dr. Kishore Singh

Taken over the additional charge of Director, Delhi State Cancer Institute, Delhi.

'Editor in Chief' of Journal of Cancer research and Therapeutics, official Journal of Association of Radiation Oncologists of India.

Dr. A.K. Rathi

Working as executive editor of Journal of Cancer research and Therapeutics, official Journal of Association of Radiation Oncologists of India.

University College Of Medical Sciences (UCMS)

Major Activities and Achievements

UCMS is ranked among the top medical colleges in India and has secured rank 19 in the NIRF ranking and 9th rank in India Today ranking among top medical colleges. A new MBBS curriculum has been implemented and CISP training has been imparted to faculty members. Students have excelled in academics, secured multiple distinctions, and top ranks in the University examinations. Apart from academics, research and publications have always been strong points of UCMS. The

faculty of UCMS has published almost five hundred and forty articles including ninety-three Books/Chapter in Books. In anticipation of COVID waves, the oxygen outlets were increased in the associated GTB Hospital so as to achieve the availability of oxygen outlets on maximum patient care beds. A 113KL buffer tank was also commissioned at the site of the new medical gas.



Honors/Distinctions

Dr. Piyush Gupta, was awarded the “Outstanding Asia Pediatrician Award” by Asia Pacific Pediatric Association and; Elected as President, of the Indian Academy of Pediatrics for 2021.

Dr. A.K. Saxena, Anesthesiology was felicitated with the University of Delhi award for exemplary services by the Vice-Chancellor, Prof. P.C. Joshi.

Dr. Anshul Singh was awarded the Dr. Kusum Pandit Memorial award at UCMS for the best scientific paper in the year 2021.

Dr. Vibhor Gupta, got medical excellence award from Delhi Medical Forum for the fight Against covid-19.

Dr. Shukla Das was awarded Federation Development Accreditation Services Certificate in Sept. 2021.

Dr. Kiran Guleria was elected Fellow National Academy of Medical Sciences (FAMS) and Fellow Ad Eundem, Royal College of Obstetricians & Gynecologists (FRCOG) honorary Fellowship; in October 2021.

Dr. Siddharth Madan-72nd Annual DOS International Hybrid Conference (26 Sept. 2021 to 03 Oct. 2021)- oral presentation-Second prize winner.

Dr. Satya Monga Award for Nakra T, Roy M, Yadav R, Agarwala S, Jassim M, Khanna G, Das P, Jain D, Mathur SR, Iyer VK. Cytomorphology of Hepatoblastoma with Histological Correlation and Role of SALL4 Immunocytochemistry in Its Diagnosis, Subtyping, and Prognostication. Cancer Cytopathol. 2019 in CYTOCON 2021.

Dr. Neelam Vaney was presented with the Dr. K Puthuraya Best Teacher Award at the 67th APP ICON.

Dr. Satendra Singh was selected as Co-Chair of the International Council for Disability Inclusion in Medical Education as a member of the Disability Core group at the National Human Rights Commission; nominated as a member from India in the Governing Council of International Alliance of Academies of Childhood Disability; as Bucksbaum International Scholar, Bucksbaum Institute for Clinical Excellence at the University of Chicago.

Publications

Total Number: 544 including 93 Books/Chapter in Books

Saxena AK, Bhardwaj N, Chilkoti GT, Malik A, Thakur GK, Bajaj M, Banerjee A, Banerjee BD, Singal A. Modulation of mRNA Expression of IL-6 and mTORC1 and Efficacy and Feasibility of an Integrated Approach Encompassing Cognitive Behavioral Therapy Along with Pregabalin for Management of Neuropathic Pain in Postherpetic Neuralgia: A Pilot Study. Pain Med. 2021 Oct 8; 22(10):2276-2282.

Halder S., & Mehta, A K. (2021). 2-Deoxy-D-glucose: is this the final cure for COVID-19: or yet another mirage? European Review for Medical and Pharmacological Sciences, 25(13), 4448–4450.

Saluja, RK., Dewan, P., Madhu, S.V., Bhatt, S., & Gupta, P. Low Dose Depot Oral Vitamin D3 Versus Daily Oral Vitamin D3 for Treating Nutritional Rickets: A Randomized Clinical Trial. Br J Nutr. 2021 Jul 19:1-6. DOI: 10.1017/S0007114521002713.

Shet, A., Dhaliwal, B., Banerjee, P., DeLuca, A., Carr, K., Britto, C., Seth, R., Parekh, B., Basavaraj, G.V., Shastri, D., & Gupta, P. Childhood immunisations in India during the COVID-19 pandemic. BMJ Paediatr Open. 2021 Apr 14;5(1): e001061. DOI: 10.1136/bmjpo-2021-001061.

Singh I, Behera PD, Aravind TK, Gupta, S. Efficacy, and safety of tamsulosin versus its combination with mirabegron in the



management of lower urinary tract non-neurogenic overactive bladder symptoms (OABS) due to Benign Prostatic Enlargement (BPE)-An open-label randomized controlled clinical study. *International Journal of Clinical Practice* 2021;1Mar 29; e14184. DOI: 10.1111/ijcp.14184 PMID: 33780106.

Aggarwal A, Tandon A, Bhatt S, Aggarwal A, Dagar S, Bansal H. COVID-19 pneumonia with cavitation and cystic lung changes: multi-detector computed tomography spectrum of a gamut of etiologies. *British Journal of Radiology*, 2021. 3(1):20210007.

Petersen, K., Sheets, Z., Singh S., et al, (2022). Inclusive medicine and medical education: increasing the number of clinicians with disabilities. *Oxford Research Encyclopedia of Global Public Health*.

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Philip, A. C., Madan, P., Sharma S., & Das S. (2022). Utility of MGG and Papanicolaou stained smears in the detection of Mucormycosis in nasal swab/scraping/biopsy samples of COVID-19 patients. *Diagnostic cytopathology*, 50(3), 93–98.

Aggarwal, D., Wadhwa, N., Arora, T., Rajaram, S., Diwaker, P., Halder, A., Jain, M., & Mishra, K. (2021). Human telomerase RNA component (hTERC) gene expression and chromosome 7 ploidy correlate positively with the histological grade of cervical intraepithelial neoplasia. *Cytopathology*, 32(5):631-639.

Anukriti K, Guleria K, Tyagi V, Suneja A & Banerjee BD. Maternal blood and amniotic oxytocin receptor gene expression and serum oxytocin levels in preterm birth: a case-control study. *Clinical and Experimental Obstetrics Gynecology*, 48(2): 283-291.

Journal

Published by the College: "Indian Spine Journal"

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 21

Research Projects

Dr. Amita Suneja, Principal Investigator: Capacity building through HRRCs and teaching institutes to operationalize government guidelines for screening of common cancers (oral, breast, and cervical) – ICMR Task Force study. Three-year project; Rs. 48,00,000/-

Dr. Kar: Adaptive Immune Responses to Covaxin and Covishield: A comparative study; Co-Investigator (PI: Dr. Jayanth Palanichamy, Associate Prof., AIIMS, New Delhi) Budget: Rs. 10,00,000/-

Dr. N.P. Singh Principal Investigator of Viral Research Diagnostic Laboratory (VRDL) State Level.

Dr. Shukla Das PI of Dysregulated pro-inflammatory host immune response among drug-resistant and susceptible dermatophytosis patients (ICMR) Rs. 36,00,000/-

Dr. Manish Narang, PI of Ultrasound Guided Aspiration Plus Antibiotics Vs Antibiotics in Children with Liver Abscess: A Randomized Controlled Trial, Department of Health Research, Rs. 20,88,000/-

Seminars Organized

Microbiology Department "Clinical interpretation of CLSI M100 guidelines" in CME on "AMSP: The Solution for AMR Menace organized by Department of Microbiology, University College of Medical Sciences, (University of Delhi), Dilshad Garden on, 2021, November 18.

Pathology Department 'Molecular technology in Hemoglobinopathy' held on 2021, November 10 for HEMATOCON 2021.

Organized a Seminar in collaboration with Mindray India on "Interpretation of New CBC Parameters' in October 2021.



Obstetrics & Gynaecology Department- CME on “Continuation of family planning services during covid pandemic” on the occasion of world population day on 2021, July 17.

Pre-congress NARCHICON 2021 workshop on “Patient safety- An emerging health care priority” as part of UCMS Golden jubilee celebration on, 2021, August 28.

Actively participated and coordinated the celebration of Breastfeeding awareness week at GTBH in August 2021.

Conferences Organized

Obstetrics & Gynaecology, Organising Chairperson for a master class on “Endometrial carcinoma- Surgical treatment & Beyond”. Organised by the Department of OBGYN UCMS & GTBH under the aegis of AOGD ONCOLOGY Committee on, 2021, September 25.

Post-Congress workshop of 43rd annual AOGD conference on “Fighting the fright – Non-Haemorrhagic Maternal collapse” as part of UCMS Golden jubilee celebration on, 2021, November 23.

“AMSP: The Solution for AMR Menace” organized by the Department of Microbiology, University College of Medical Sciences, (University of Delhi), Dilshad Garden on, 2021, November 18.

A pre-conference online satellite workshop on “Antimicrobial Stewardship in Paediatric Infections” organized by the Department of Microbiology, University College of Medical Sciences, (University of Delhi), Dilshad Garden on, 2021, November 25.

Dr. Archana Singal and Dr. Chander Grover- “Clinico-pathological Correlation: How Nail Biopsy Helps” a Nail symposium organized by UCMS in association with Nail Society of India

(NSI), on, 2021, July 03 online in NSI Skill-Based Series.

15th Vittartha-PG Conference on ‘Challenging Cases in Dermatology’ held on 2021, September 01 (Online).

Medicine Department, World Congress on Chronomedicine (WCC 2021) & 7th Annual Conference on Indian Society of Chronomedicine, Noida, 2021, December 17-19 API Noida chapter.

16th Asian-Pacific Congress of Hypertension (APCH 2021), New Delhi, India, 2021, November 24-28 ISH.

Dialogues in Diabetes, New Delhi, on 2021, July 21 UPDA GBN Chapter.

Seminar/Conference Presentations

Dr. M S Bhatia Participated as a speaker in the symposium titled “Telepsychiatry expanding access to all in the covid era: promises kept and challenges upheld” during WASP Asia-Pacific Hybrid Congress 2021, held on 2021, September 16-18 in Delhi, India.

Dr. Anupama Tandon, Talk on “*Ultrasound of the ankle and foot*” at Musculoskeletal Imaging- Current Trends and applications on 2022, April 08-09 at Government Institute of Medical Sciences, Greater Noida.

Dr. Piyush Gupta, Prof Rama Rao Oration. IAP Guidelines on vitamin D deficiency. Indian Academy of Pediatrics, Karnataka State Branch of Indian Academy of Pediatrics KarPedicon. Vijayanagar, Karnataka in the 25th Annual Conference of Karnataka IAP, in December 2021.

Dr. Mrinalini Kotru at the XXXIX EAFO Onco-Pathology Seminar “Hematolymphoid Malignancies” in a hybrid format in Moscow



from 2022, January 06-09 on 'Chronic Myeloproliferative Disorders Other than CML'.

Dr. Sonal Sharma in a panel discussion on 'CME on Salivary gland cytology' in the 50th Annual Conference of Indian Academy of Cytologists, AIIMS, New Delhi. 2021, November 19-21.

Dr. Sandhya Jain, Speaker at National CME on Endometriosis: Unfolding an Enigma at School of Medical Science and Research-Sharda University Greater Noida on 2021, July 22.

Dr. Rachna Agarwal, Coordinator, Delhi PG Forum Case discussions on 'Abnormal uterine bleed in adolescents' held on 2021, July 26.

Dr. Kiran Guleria, a Speaker on the Effects of pesticides and air pollution on reproductive health and preventive strategies at the 9th CARC (Central Asia Regional Virtual Conference) with AMWI Mumbai branch, India on 2021, September 11.

Dr. Amita Suneja conducted Workshop for the training of trainers organised by the British Society of colposcopy and cervical pathology on 2021, July 07.

Other Inter-Institutional Collaboration

National Candidemia Network with the Department of Microbiology PGIMER Chandigarh: 2021-2022.

Library Development

During 2021-2022, the UCMS College library purchased 164 textbooks and reference books for an outlay of Rs. 10,25,554=00/- and subscribed to 78 current journals (29 Foreign Journals and 49 Indian Journals) for Rs. 27,49,623.56/-/-. The total number of books in the library is 20748, in addition, the library has an asset of 25,585 bound journals, 1534 WHO Publications, 1148 Thesis, and 416 CDs.

The library is a member of ERMED Consortium through which users can access 235+ e-journals. The prestigious Developing Library Network (DELNET) facility is also provided to all users. This year the library also subscribed "UpToDate" which is an evidence-based clinical decision support resource that offers comprehensive, peer-reviewed content in 25 medical specialties and is used primarily at the point of care. The library users have the facility to access all the library resources remotely via UCMS eLibrary Mobile App powered by Refread.

Faculty Strength

Director Prof.s: 32

Prof.s: 45

Assistant Prof.: 61

Other significant information

"Indian Spine Journal" got indexed in The Directory of Open Access Journals (DOAJ) and Scopus.

V. P. CHEST INSTITUTE

Brief History

Vallabhbhai Patel Chest Institute is an institution of University of Delhi, governed and administered by its own Governing Body constituted under Ordinance XX (2) of the University Act and is fully funded by grants-in-

aid provided by Ministry of Health and Family Welfare, Government of India.

Major Activities and Achievements

VPCI continued its 'education', 'research' and 'patient care' activities. Conducted



postgraduate medical courses viz MD, DM and Ph.D. in chest medicine and other pre- & para-medical disciplines, short-term training to post-graduate students of prestigious institutions.

Honours/Distinctions

Dr. Anuradha Chowdhary was Elected Fellow, International Society of Antimicrobial Agents & Chemotherapy, 2021; Was Highly cited Researcher by Web of Science/Clarivate 2021 list of the 1 percent most cited scientists of the past ten years; Was Advisor, The Clinical and Laboratory Standards Institute (CLSI) Antifungal Subcommittee, Jan, 2022; Was Secretary, European Fungal Infection Study Group (EFISG) of European Society of Clinical Microbiology & Infectious Diseases.

Dr. Anita Kotwani is Member of Technical Advisory Group and Core working Group constituted by Ministry of health & Family Welfare, GOI on AMR to oversee and coordinate policy decisions and activities relating to AMR including development and operationalizing the National Action Plan on AMR; Was Member of Advisory panel of Journal of Pharmaceutical Policy and Practice; Was invited for an interactive talk on "Use and misuse of antibiotics in the community" on the occasion of international women day, March 15, 2022.

Dr. Jayeeta Bhadra successfully completed the Basic course in Biomedical research as mandated by NMC; Was Coordinator, NABH EL Accreditation, VP Chest Institute; Was Member in "Work Advisory Committee (Civil & Electrical)", VP Chest Institute; Was Nodal Person in "Quality Management Committee", VP Chest Institute; Was Member in "Patent Safety Committee", VP Chest Institute.

Dr. Kavita Gulati was awarded Fellowship of National Academy of Medical sciences (FAMS), during convocation at BHU, Varanasi on 27.11.2021; Was Coordinator of Adverse Drug Reaction Monitoring Centre (AMC) under the Pharmacovigilance Programme of India, Indian Pharmacopoeia Commission (IPC-CDSCO); Was Nodal Officer of Multidisciplinary Research Unit of

Department of Health Research, ICMR at VPCI.; Was Member Expert (Pharmacology) in Institutional Human Ethical Committee (IHEC) meetings of PGIMER, RML Hospital on 08.04.2021, 21.05.2021, 10.4.2021, 11.06.2021, 25.6.2021; Was Expert in Project Evaluation Committee meetings of Indian Council of Medical Research (ICMR) on 22.06.2021, 02.07.2021, 07.07.2021, 09.08.2021 and 10.12.2021.

Dr. Mandira Varma Basil was Member Ethics committee, RajanBabu Institute of Pulmonary Medicine and Tuberculosis.

Dr. Parul Mrigpuri was Convener, Group B for formulation of Indian guidelines for diagnosis of Respiratory Allergy; Was Resource person, VPCI (Center of excellence for climate sensitive allergic diseases. Substantially contributed to the developed of training modules on allergy and climate change for state nodal officers, medical officers, paramedical officers and community-based modules.

Dr. Raj Kumar was on Advisory Committee, Celebrating 75th year of Excellence in Higher Education and Research – Inaugural Ceremony of 'Platinum Jubilee' of LIS Department organized by Department of Library and Information Sciences, University of Delhi on 20.07.2021; Was Member, Scientific Advisory Committee New Delhi Tuberculosis Centre, State TB Training & Demonstration Centre, JNU, Delhi on 04.10.2021; Was Member, Standing Committee (Students) of the Academic Council, University of Delhi, Delhi . Dated 03.06.2021; Was Expert, selection committee of the Department of Sports and Physical Sciences for promotion of Assistant Prof. (Stage) to Associate Prof. (Stage IV) under CAS 2018 on 8th June, 2021 at Principal, Ramjas College, University of Delhi, Delhi dt.07.06.2021.

Dr. Ritu Kulshrestha was the External Member of Specialist Panel on Soldier Health and drug development (SH&DD), Inst of Nuclear Med and Allied Sc (INMAS), Delhi since 15



September 2021; Was the Member of Scientific Advisory committee for MRHRU External Member of the Scientific Advisory Group for the Dept of Health Research, MOHFW, GOI established Model Rural Health Research Unit (MRHRU) at Khotpura, Panipat, Haryana in collaboration with the Kalpana Chawla Government Medical College, Karnal under mentorship of ICMR-NICPR, Noida since March 2021; Was the Member, Board of Studies, Dept. of Paramedical sciences, Faculty of Allied Health Sciences, SGT University, Gurgaon since November 2020; Was the Associate Member- of DBT-TDNBC-Deakin-Research Network across Continents for Learning and Innovation (DTD-RNA) since November 2020 Dr. Ritu Kulshrestha is the DST nominee to the Facility management committee of, "Sophisticated Analytical Instrument Facility (SAIF)", New Delhi (AIIMS) from 10/8/2018 to 9/8/2021' Was the Councilor Member of the Asia-Australasian Pulmonary Pathology Society (AAPPS).

Dr. UMA Tyagi was External examiner for online viva-voce examination in r/o BLIE-227 held on 18/09/2021 and 19/09/2021 for IGNOU Regional Centre Ranchi.

Dr. Vishwajeet Rohil was Member in "Work Advisory Committee", VP Chest Institute; Was Member in "Technical Evaluation Committee", VP Chest Institute.

Publications

Nitin Goel, Nitesh Goyal, Raj Kumar. (2021). Clinico-radiological evaluation of post COVID-19 at a tertiary pulmonary care centre in Delhi, India. *Monaldi Archives for Chest Disease*, 91(3), 1682.

Nitin Goel, Nitesh Goyal, Ravishankar Nagaraja, Raj Kumar. (2021). Systemic Corticosteroids for Management of 'long-COVID': An Evaluation After 3 Months of Treatment. *Monaldi Archives for Chest Disease*, 92(2), 1981.

Arora P, Singh P, Wang Y, Yadav A, Pawar K, Singh A, Padmavati G, Xu J, Chowdhary A*. (2021). Environmental isolation of *Candida auris* from the coastal wetlands of Andaman Islands, India. *mBio*, 12(2), e03181-20.

Kong X, Tang C, Singh A, Ahmed SA, Al-Hatmi AMS, Chowdhary A, Nenoff P, Gräser Y, Hainsworth S, Zhan P, Meis JF, Verweij PE, Liu W, de Hoog GS. (2021). Antifungal susceptibility and mutations in the squalene epoxidase gene in dermatophytes of the *Trichophyton mentagrophytes* species complex. *Antimicrob Agents Chemother*, 65(8), e00056-21.

Sulis G, batomen B, Kotwani A, Pai M, Gandra S. (2021). Sales of antibiotics and hydroxychloroquine in India during the COVID-19 epidemic: An interrupted time series analysis. *PLOS Medicine*, 7(18), e1003682.

Bhadra J, Seth S, Kulshrestha M, Dhupper V, Aggarwal H, Sen J. (2021). Testosterone and estradiol in men with acute ischemic stroke: A North Indian case control. *Current Journal of Neurology*, 20(4), 202-207.

Shraddha Gupta, Chanchal Kumar Kamal Shrivastava, Varsha Chauhan, Anupriya Singh Rohan Arora, Astha Giri, Andrea Maurizio Cabibbe, Naresh Kumar Sharma Andrea Spitaleri, Daniela Maria Cirillo, Mridula Bose, Mandira Varma-Basil. (2022). Whole genome sequencing of isoniazid monoresistant clinical isolates of *Mycobacterium tuberculosis* reveals novel genetic polymorphisms. *Tuberculosis (Edinb)*. 2022 Mar; 133:102173., 133(na), 102173.

Mrigpuri P, Sonal S, Spalgais S, Goel N, Menon B, Kumar R. (2021). Uncontrolled diabetes mellitus: A risk factor for post COVID fibrosis. *Monaldi Archives for Chest*, 25(91), 1607.

Kulshrestha Ritu, Singh Amit, Kumar Pawan, Mishra, AK, Dinda AK. (2021). Surface modifications of biodegradable polymeric nanoparticles and their characterization by



advanced electron microscopy techniques. *Indian Journal of Biochemistry and Biophysics*, 4(58), 321-33.

Ajit Kumar Preeti Kaushik, Sandra Incerpi, Jens Z. Pedersen, Sanjay Goel, Ashok K. Prasad, Vishwajeet Rohil, Virinder S. Parmar, Luciano Saso and Christophe Len. (2021). Evaluation of the Free Radical Scavenging Activities of Ellagic Acid and Ellagic Acid Peracetate by EPR Spectrometry. *Molecules*, 26(16), 1-11.

Journals

Dr. Raj Kumar Editor-in-Chief. (2022). *Indian Journal of Chest Diseases and Allied Sciences (IJCDAS)*. Quarterly, 1(64), 129.

Dr. Raj Kumar 2. Dr. Ritu Kulshresha. (2020). *VPCI News Letter*. Bi-annual, 8(2), 16.

Publication Division. (2021). *Annual Report*. Annual, 1(1), 88.

Research Projects

MoHFW, 2016-2023, National Tobacco Quit Line Services (NTQLS), Rs. 2,30,69,000/-

NCDC-NRL, 2021-2026, National Reference Laboratory for Antimicrobial Resistance in fungal pathogens, Rs. 1,78,00,000/-

ICMR, 2019-2022, Development of a rapid phenotypic assay to differentiate between Mycobacterium tuberculosis and Non-tuberculosis mycobacteria, Rs. 32,62,000/-

ICMR, 2022-2025, Development and Validation of Artificial Intelligence tool for Screening/Detection of pulmonary TB and other lung disease using Chest X-Ray, Rs. 20,56,000/-

ICMR, 2020-2023, Exploration of azole resistance in *Candida tropicalis*: Detection of ERG11 gene mutations and azole resistant genotypes, Rs. 12,62,000/-

Seminars Organized

Various speakers, organized by VPCI and ICAAI (Indian College of Asthma & Applied

Immunology), Lectures and practical sessions on various aspects of Allergy, APAAAC Allergy Week, 13-04-2021.

Various speakers, organized by Adverse Drug Reaction Monitoring Centre, VPCI Various topics on Pharmaco-vigilance – a step towards patient's safety Continuing Medical Education (CME) 21.09.21, Organized by Adverse Drug Reaction Monitoring Centre, VPCI, Various topics on Pharmaco-vigilance – a step towards patients safety, Continuing Medical Education (CME), 21-09-2021.

Various faculty members, organized by NCRAAI, VPCI supported by Society for Tobacco Control, 3-day course covering various topics on Respiratory Allergy and Immunotherapy, Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy, 11-03-2022.

Seminar/Conference Presentations

Dr. Anuradha Chowdhary delivered invited lecture on "Worldwide dissemination: Epidemiology resistance and pathogenicity of rare yeast- the lesson learned from *Candida auris*". 31st European Congress of Clinical Microbiology and Infectious Diseases, 2021, July 09-12.

Dr. Ajita Kapur won second position in e-poster competition organized by ADR. Monitoring Centre, VPCI, Delhi on 2021, September 23 during National Pharmacovigilance week.

Dr. Jayeeta Bhadra presented a scientific poster titled "Directed Remodelling of the mouse gut microbiome inhibits development of atherosclerosis" during ACBICON 2021 held virtually on 2021, December 12-15.

Dr. Kavita Gulati was organizing secretary of seminar on "Pharmacovigilance – a step towards Patient Safety" at VPCI, on 2021, September 21.

Dr. Mandira Varma Basil. Nontuberculous Mycobacteria – Challenges in Diagnosis and Management. Invited talk at TBICON 2022,



organized by PGI Chandigarh, held on, 2022, March 26.

Dr. Parul Mrigpuri Organised Observance of World Health day (2021, July 07) during Swachhta Pakhwada (2021, April 01-15)

Dr. Kulshrestha R1, Negi A1, Ishita1, Saxena H1, Meenu D1, Menon B.K2, Kaushik R2, Pandita S2, Raj Kumar. Tumor cell phagocytosis (cannibalism) in lung cancer: possible biomarker for tumor immune escape and prognosis. E-Poster presented in The American Virtual Conference on Lung Cancer. 2021, December 07.

Dr. Siddharth Raj Yadav imparted practical hands-on training in SPT: Proficiency testing during the Certificate course on Respiratory Allergy and Immunotherapy, VPCI Delhi, 2022, March 12-13.

Dr. Raj Kumar was Chief Guest, Inauguration of 22nd Workshop of Allergy Testing and Immunotherapy Training Program on, 2021, July 29-31 at National Allergy Centre, East Patel Nagar, New Delhi -110008.

Dr. Raj Kumar was Chairperson, ICAAI Allergy Asthma Chat in association with BAF Academy through virtual mode on, 2021, May 16.

Dr. Vishwajeet Rohil has participated in the VIROCON 2021 "NATIONAL CONFERENCE of VIROLOGY" (virtual mode on Emerging and Reemerging Viral Diseases-Climatic Change Impact and Mitigation, organized by Department of Microbiology, All India Institute of Medical Sciences, Bibinagar, Hyderabad, Telangana, 2022, March 26-28.

National/International MoUs Signed

MOU between VPCI and AIIMS, Deogarh for collaboration on Education, Research and Training.

CCRUM collaborative project.

Other Inter-Institutional Collaboration

AIIMS, New Delhi.

Amity University, NOIDA.

CSIR-IGIB (Institute of Genomics and Integrative Biology), Delhi.

Centre for Disease Dynamics and Economic Policy & and National Institute of Animal Biotechnology.

Central Council for Research in Unani Medicine, Ministry of AYUSH.

Defence Institute of Physiology and Allied Sciences, DRDO, Delhi.

Indian Council of Medical Research (ICMR) Institute of Nuclear Medicine & Allied Sciences, DRDO, Delhi.

Lady Hardinge Medical College, New Delhi. Rajan Babu Institute for Pulmonary Medicine & Tuberculosis (RBIPMT), New Delhi.

SRM University Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi.

Student under Exchange Program (Inbound/Outbound)

Short-term Specialized Training Imparted by Faculty Members of VPCI: No. of students: 10

Placement Details

100%

Library Development

The Institute has one of the best libraries in the field of Pulmonary Disease and Allied Sciences having 10134 Books, 25025 bound Journals, 177 CD's, 587 Thesis and 31 National and International Reports. A total 16 Journals (05 International and 11 National) are being received on exchange programme with the Institute's Journal and 02 Journals are received on complimentary basis. To cover the need for daily coverage of news related to the medical field, Library is also subscribing four English and four Hindi newspapers. This has encouraged the inculcation of reading habits of all alike. 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.irmed.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. The Library facilities are available to Members/Users of Delhi University from Monday to Friday from 8:30 AM to 5:30 PM & on Saturday's from 9.00 AM to 5:30 P.M.

Faculty Strength

Director: 01
Director Prof.: 07
Prof.: 03
Assistant Prof.: 09

Financial Allocation and Utilized

Fund Allocated: Rs. 61,09,00,000/-
Fund Utilized: Rs. 61,09,00,000/-



Faculty of Music & Fine Arts

Department Of Music

Brief History

At the Dept. of Music, Faculty of Music and Fine Arts, University of Delhi, we are proud to look at sixty years of effectuating the strategies of adapting our classical music from the traditional Gurukul system to that of the university system. The conceptual foundation was laid by Dr. V.K.R.V. Rao, the famous economist and former Education Minister, who was also the Vice Chancellor of this university at the time of its inception. With the aid of an endowment fund from Sir Shankar Lal Foundation, the Department of Music, University of Delhi, was instituted in the year 1960. The translation of the concept into reality was commenced by pioneers such as Prof. R.L. Roy, Shri C.S. Pant, Shri Pran Nath, Prof. V.V. Sadagopan, Smt. Ambujam, Shri Debu Chaudhuri and Shri V.K. Aggarwal, along with staff artistes - Shri Chhanna Khan, Shri Faqir Chand and Shri Ram Swaroop. They were followed by Ustad Yunus Hussain Khan, and thereafter by Vidushi Prof. Sumati Mutatkar as the Dean & Head, Faculty of Music & Fine Arts, University of Delhi. It was under the inspiration of Prof. Mutatkar, and with Yunus Khan ji as the first Choir Director, that the Department started the 'Sargam Choir', a vocal and instrumental ensemble, in 1971. Started with a modest batch of twelve students of Hindustani music (both Vocal and Instrumental) and Karnatak music, (only Vocal), the Department was initially situated at the Barracks at the back side of Miranda House. Since then, it has expanded to over four hundred and fifty students at its current location, just at the intersection of the University road and the Mall road, next to the Sir Shankar Lal Concert Hall in the North Campus of the University. During this period, the two main disciplines of music in India, viz, Hindustani and Karnatak music have grown parallel to each other in this Department. With the passage of time, new courses were introduced. In 2013-14, B.A. (Hons.) in Hindustani music - Percussion

(Tabla/Pakhawaj) was introduced, followed by M.A. in the same in 2016-17, with its M.Phil. starting from 2018-19 onwards.

The Department has constantly been in the process of enhancing the skills of our students, which leads to an increase in their productivity and output. Keeping these in mind, the Department has always strived to innovate and introduce new courses from time to time. Starting from 2008-09, the Department has introduced special courses, which are job-oriented in keeping with the objectives of the University. Many Diploma and Short-Term Courses have been introduced to fulfil this purpose. A Two-Year Diploma course in Harmonium was started in 2015-16. In 2017-18, the said course and the decades old Sangeet Shiromani Diploma Course of two years' duration, were restructured from the Annual to the Semester mode, in tune with the main undergraduate and post graduate programmes.

The Department has also introduced Short-Term Courses in many genres, namely Tabla, Harmonium, Santoor, Thumri-Dadra, Post-Pallavi compositions in Karnatak music, Veena, Violin and Mridangam, as also Journalism and Sound Engineering: Techniques and Equipment. Thus, at present, the Department conducts B.A. (Hons.), M.A., M.Phil. and Ph.D. programmes in both Hindustani and Karnatak music, Diploma and Short-Term Courses of six months (Advance) and four months (Certificate) duration in the aforesaid and other genres; as also One Year Certificate Course for Foreign nationals in both Hindustani and Karnatak music.

With a sanctioned strength of forty-one teachers and contribution of noted personalities, artistes and music lovers, the Department has seen many fruitful and prosperous years with rapid development. Equal emphasis is being laid on both



theoretical knowledge and practical orientation. Music being a performing art, emphasis is laid upon Oral Tradition within classroom teaching. Noted experts are being invited regularly to share their knowledge with the students. We have the proud privilege of having many reputed artistes, both in the past and at present, in our teaching faculty, who have been a guiding force for our students. No wonder, quite a few of our alumni are performing artistes with Radio and TV grading, while others are placed in eminent positions in various universities, colleges and many government and private organizations.

One salient feature of the infrastructure of this Department is its vast and well- equipped library with several wings. It has recently been upgraded into being partly automated. The reading and lending section of the library has around 16,000 books, some of them are very old and rare, and providing valuable source material for regular as well as research-oriented study. The Braille section for the visually challenged has a large collection of 304 Braille books and relevant material transcribed into Talking Books, which is made available to the students in the form of CDs. The audio section has a listening room and lending facilities for over 2,200 cassettes and CDs. Students are encouraged to listen more and more, so as to absorb the finer nuances of this great art form.

Apart from this, a separate Computer section with internet connection, printers and e-material facilities have been set up for the benefit of the teachers and research scholars. Two computers, fitted with the JAWS software, are allocated for the differently-abled visual students. While developing the deep-rooted base for Indian classical music, the main aim of this section is to encourage everyone to be acquainted with growth, development and research of music worldwide.

The Department has a Museum too, displaying old and rare instruments with their history so as to provide a valuable source of data for researchers. At present, the studio is upgraded with an archival section, where priceless

archival music of stalwarts and connoisseurs of music, recorded earlier at the Department, is being made available to students and teachers.

The lending and reference sections of the Library, as well as the Museum, is fitted and monitored with CCTV cameras. All of the 16,200 books and 2,300 Ph.D. theses and M.Phil. dissertations have been entered into the 'Troodon' e-resource subscribed by DULS, and can be accessed online through the Troodon Library Management Software (version – 4.0).

<http://dulsofac.du.ac.in/catalogue.aspx>

The Department is proud to have had on its rolls, students from not just India, but also from abroad, such as the U.S.A., Japan, China, Mauritius, Thailand, Iran, The Netherlands, Kuwait, South Korea and Fiji, as also from neighbouring countries like Nepal, Bangladesh and Sri Lanka. The Department also enjoys the distinct achievement of regularly conducting Short Term courses for the students of the Soka University (Japan) and UCLA (U.S.A.) as the MOU has been signed between them and the University of Delhi. There has also been an exchange programme with the Thummasat University (Thailand). In this sense, the Department can rightly claim to have attained a unique status vis-à-vis expanding the horizons of Indian classical music far outside of our borders. As the saying goes, music has no boundaries !

Music being foremost, a practical art, special attention and continuous stress is laid on achieving excellence in performance, not only amongst the students, but also upon the teachers as well. In order to orient them with the fine art and nuances of performance, the Department organizes concerts from time to time, where teachers and students alike are given a platform to display the richness of their talent in the league and company of national-level artistes, who are invited to perform. One of the prime concerts organized every year is the Malhar Utsav to celebrate the spirit of the rainy season with varieties of Malhar ragas. Another notable concert series is the 'Sadhyayan', which is a baithak (seated on the



floor) organized by the Department from time to time. The Department also provides a regular forum for Lecture-cum demonstrations and workshops, which includes a vast variety of programmes in the vocal, instrumental and percussion fields of both Hindustani Music and Karnatak Music. Supportive teaching and interaction with experts enhance the regular classroom teaching programmes.

The Department celebrates the annual festival of Vasantotsav (Saraswati Puja) with zeal and vigour, which is well attended by renowned artistes, scholars and the university community. After seeking the blessings of M.A. Saraswati through traditional Puja, including the Pushpanjali, toppers of the annual Inter class competitions, teachers and staff artistes pay homage to M.A. Saraswati - the goddess of learning and knowledge - through seasonal ragas, depicting shades, essence and fragrance of the Spring.

The Department lays stress that the students, upon entering the field of career-making, should be adept at the theoretical aspect of music as well as the practical side. Keeping this in mind, the Department organizes National/International level seminars under the Special Assistance Programme of the U.G.C., and sometimes in collaborations with the Indian Council for Cultural Relations (I.C.C.R.) or the Sangeet Natak Akademi, as the case may be.

In the last five years, the Department has organized two International Seminars, one of which was organized in collaboration with the ICCR, on 27-28 February 2018, titled – “Indian Classical Music: Teaching and Performing Abroad” at the Conference Centre, University of Delhi. It was attended by experts from the USA, The Netherlands, Mauritius, Singapore, Sri Lanka, Bangladesh and Nepal. This was followed the next year by a two-day National seminar titled – “Aesthetical manifestations of Raga and Tala in Indian Classical Music: The Contemporary scenario” on 22-23 October, 2019 at the Conference Centre, University of Delhi.

The Department is indeed privileged to have had over the years, some illustrious names in the field of music as panellists for the seminars, such as Padma Bhushan recipients - Prof. S.K. Saxena, Pt. Debu Chaudhuri, Vidushi Shanno Khurana, Vidushi Kapila Vatsyayan, Pt. Birju Maharaj; Sangeet Natak Akademi award winners such as Pt. L.K. Pandit, Vidwan T.R. Subramanyam, Vidushi Leela Omchery, Vidushi Krishna Bisht, Pt. Vidyadhar Vyas, Pt. Bhajan Sopori and many others. They have shared with us all, the wealth of their knowledge and experiences, which have greatly benefitted one and all.

The Department also brings out its research journal – Vageeshwari. Started in 1986, the journal has completed a glorious journey of 34 long and musically enriching years. The journal is a treasure house of knowledge, which encourages scholastic outpouring of information and innovative ideas in the field of research in music. It publishes proceedings of the Departmental seminars, as also research papers and articles contributed by eminent musicologists, teachers and research scholars both from the Department and other institutes in India. Vageeshwari is an ISSN numbered journal (0975-7872) and has been uploaded on the Journal’s portal of the UGC in 2017.

Along with workshops and Lecture-cum-demonstrations, the Department started a new series of audio-visual shows and film shows. The Department has conducted Audio-video shows on leading personalities like Pt. D.V. Paluskar, Ustad Allaaddin Khan, Vidushi M.S. Subbulakshmi and Ustad Ahmad Jan Thirakwa, which were presented by the concerned subject experts. A film on the life and work of Ghazal Queen – Begum Akhtar, and one on Gwalior gharana, were shown in the Department. In the month of March 2018, a four-day workshop on the making, repairing and maintenance of musical instruments, viz. Tabla, Sitar, Tanpura and Mridangam, was organized in collaboration with the Sangeet Natak Akademi, New Delhi. This is a unique feat in the history of music in the the university system, as such a set of workshops on four different instruments, was organized for the



first time ever.

Studying in the Department of Music, University of Delhi, is a truly different experience for the students. This is because on one hand, the students pursue their concurrent courses, while on the other hand, they also learn the traditional art forms of Indian classical music from a unique institute, which is a mixture of an age-old education system, i.e. the Guru-shishya parampara and institutionalized modern education system. The atmosphere of teaching-learning is indeed that of an extended family.

Major Activities and Achievements

Yoga Day:

On 21 June 2021, the Department celebrated International Yoga Day by holding an online workshop on Yoga.

Malhar Utsav:

The Malhar Utsav is a two-day Annual festival of Indian Classical Music, organized by the Dept. of Music, University of Delhi, held every year in the month of August. This festival, as the name suggests, celebrates the spirit of the rainy season. The many varieties of Raga Malhar are rendered by artistes of national repute. Students through such a festival get the opportunity to understand the importance of seasonal ragas and their treatment in various traditions (Gharanas).

Last year, due to the Covid pandemic, Malhar Utsav was organized in virtual mode on 24-25 August 2021 from 10:30 a.m. onwards. The festival was dedicated to Sitar Maestro Padmabhushan Late Pt. Debu Chaudhuri & Late Pt. Prateek Chaudhuri. The Chief Guest for the festival was Dr. Vikas Gupta, the Registrar of the University of Delhi.

On the 24th August, 2021, the Festival commenced with Mangal Dhawani by Sargam Choir: A Karnatak Music presentation by the students of the Department conducted by Dr. Prasanth G. Pai. The programme included a Welcome Address delivered by Prof. Deepti Bhalla, then Dean & Head, Faculty of Music & Fine Arts, University of Delhi. This was followed

by Karnatak Vocal recital by Sh. Abhiram Uni from Chennai accompanied by Sri Sanoj Pongad on Mridangam and Sh. Gokul Alankonde on Violin, and a Hindustani Sitar Recital by Dr. Shubhendra Rao from Delhi accompanied by Pt. Ashis SenGupta, on Tabla.

On the 25th of August 2021, the Festival commenced with 'Mangal Dhawani' by 'Sargam Choir' a Hindustani Music presentation by the students of the Department conducted by Dr. Vineet Goswami. The Programme included a Hindustani Vocal Recital by Shri Sameehan Kashalkar from Pune accompanied by Shri Aashay Kulkarni on Tabla and Shri Ameya Bichu on Harmonium, this was followed by a Hindustani Tabla Recital by Ustad Rafiuddin Sabari from Delhi, accompanied by Sh. Shambhoo Sisodiya on Sarangi.

Honours/Distinctions

Mahajan, Prof. Anupam, Key Speaker at a National Webinar – Senia Gharana - YadonKeJharokho Se, 23 June 2021, Department of Music, Panjab University, Chandigarh.

Key Speaker at a National Webinar – Vishwa Shanti Me Bhartiye Sangeet KaYogdan, 5th July 2021, Mohan Lal Sukhadia Udaipur University.

Key Speaker at a National Webinar – Yog Evam Sangeet- ChikitsyayiAayam, 7th July 2021, Chaudhary Ranbir Singh University, Haryana. Key Speaker at a National Webinar – Corona Aapda Kal Me Mansik Tanav Prabandhan Sangeet Evam Kalaon Ki Bhumika, 18th June 2021, Raja Man Singh Tomar University, Gwalior.

Key Speaker at a National Webinar – Contribution of Panjab in Music, March 2021, Department of Music, Panjab University, Chandigarh.

Key Speaker at a National Webinar – Gender relevance in Music- A Critical Analysis, 2 Nov. 2021, University of Kashmir, Kashmir.

Key Speaker at a National Webinar – Gender relevance in Music- A Critical Analysis, 2 Nov. 2021, University of Kashmir, Kashmir.

Key Speaker at a National Webinar – Inter Disciplinary Approach in Music 87th Guru



Dakshta Faculty Induction Programme under UGC Human Resource Development Centre, 28th Jan. 2022, University of Kashmir, Kashmir.

Key Speaker at a National Webinar – Research Methodology in Performing Arts under Extra Moral Lecture Series, 7th Feb. 2022, The Maharaj Sayajirao, University of Baroda.

Key Speaker at a National Webinar – The Aesthetic of Classical Music, 22nd Feb. 2022, Daulat Ram College, University of Delhi.

Publications

Research Articles

Singh Rajpal, (2021), Relevance of Manual Tanpura among the Modern Apprentices of Indian Classical Music: An Empirical Research, *Kriti* 8, *Gitam* 1.

Books/Chapter in Books

Singh Rajpal, (2021), Relevance of Manual Tanpura among the Modern Apprentices of Indian Classical Music: An Empirical Research, *Delhi*, *Sangitika*, 2348-5892, *Kriti* 8, *Gitam* 1.

Singh Rajpal, (2021), Significance of singing style of Indore gharana in Naad-Nartan Journal of Dance and Music, *Delhi*, *Naad-Nartan Journal of Dance & Music*, 9, (1), 2349-4654.

Bhalla, D.O., (2021), *Natya Dharmi and Lok Dharmi in the Angika Abhinaya of*

Mohiniattam, Delhi, Sameeksha, 2349-4987, 71-85.

Bhalla, D.O., (2021), *The Temple Music Tradition of Kerala. Itihaas Darpan: Akhila Bharatiya Itihasa Sankalpa Yojana, Delhi*, Sopana Sangita, 2989-4687, 87-90.

Soren, S.N., (2020), *Lokgeet mein Nirgun Kavya ka Gayan, Delhi*, *Sangitika*, 15 2348-5892, *Kriti*-8, *Geetam*-1.

Journal

Prof. Deepti Omchery Bhalla, (2021), *Vageeshwari, Department of Music*, 36 (36), 1-136.

Seminars/Conferences

Dr. Shubhendra Rao, Prof. Deepti Omchery Bhalla, Ustad Rafiuddin Sabari, Department of Music, University of Delhi, University of Delhi, Two-day Virtual Live Malhar Utsav 2021, 2021, August 25.

Seminar/Conference Presentations (National/International)

International: 02

National: 08

Faculty Strength

24



Faculty of Science

Department of Anthropology

Brief History

In 1947, the Department of Anthropology was founded in the Faculty of Science at the University of Delhi, with Dr. P.C. Biswas (M.Sc., Calcutta, Ph.D. Berlin) as its Head. It was the second anthropological institute in the country. His other colleague was Mrs. Hilda Raj. In 1949, Dr. Freda Mookerjee joined the faculty of the department. Then followed J.D. Mehra, Inder P. Singh and S.C. Tiwari. Abhimanyu Sharma joined the department in 1956, followed by R.D. Sanwal and A.K. Mitra. When B.Sc. (Honours) course was introduced in 1962, S.K. Basu and Rameshwar Singh were taken as the member of the teaching faculty. They were followed by P.K. Datta, Raghuvar Singh, J.S. Bhandari, D.K. Bhattacharya, P.K. Seth, I.S. Marwah, H.K. Kumbhani, Swadesh Seth, P.K. Chattopadhyaya, M.K. Bhasin, A.K. Kala and Surinder Nath. Many teachers joined the Department from time to time as it expanded its teaching and research activities, viz. P.K. Ghosh, S.L. Malik, V.C. Channa, V.K. Srivastava, A.K. Kapoor, M.P. Sachdeva, Satwanti Kapoor, R.S. Mann, Subhadra Channa, P.R. Mondal, Indrani Chattopadhyaya, S.M. Patnaik, Gautam K. Kshetriya, Manoj Kumar Singh, K.N. Saraswathy, P.C. Joshi, R.P. Mitra, Benrithung Murry, Avitoli G. Zhimo, V. R. Rao, Meenal Dhall, Vipin Gupta, Shivani Chandel, N.Kiran Mala Devi, M.Kennedy Singh, C.Mahajan, Mitashree Srivastava and Suniti Yadav. In 1968, one-year Postgraduate Certificate Course in Forensic Science was started by the Department. The Department was headed by Prof. P.C. Biswas till 1968 and he laid a sound foundation of an integrated discipline. He was succeeded by Prof. Inder P. Singh (1968-79, 81-84), Prof. J. D. Mehra (1979-81), Prof. S.C. Tiwari (1984-87), who expanded its scope and developed various laboratories and branches of anthropology.

The Department started in 1947 in two rooms in the old building of the Department of Zoology, and shifted to the new building of the Arts Faculty in 1949, and later came to occupy its present building- the erstwhile Prince's Pavilion facing Mughal Garden in 1966. Laboratories and lecture

halls were added to meet the needs of the growing discipline. From a humble beginning of two rooms today it has 12 laboratories (general and specialized), lecture halls, teachers' rooms, library, and an ethnographic museum. The Museum when it was located in the Arts Faculty building had the distinction of having the visit and blessings of the then Prime Minister Pandit Jawaharlal Lal Nehru who regularly donated ethnographic specimen and cultural objects from his personal collection throughout his tenure. This tradition was continued by his distinguished daughter, Prime Minister Indira Gandhi. In its present location, King Charles III, the then Prince of Wales, visited the museum in 1980.

Major Activities and Achievements

The session 2021-2022 commenced with the grand farewell programme for Prof. P.C. Joshi, the then Vice Chancellor (Acting) of University of Delhi in the month of May 2021. A two-day national seminar was organized in his honour. Eminent scholars from the field of Anthropology across the country participated and presented scientific papers on health and wellbeing. A festschrift in honour of Prof. P.C. Joshi was also released during the seminar. Eminent lecture series, international workshops, and national seminars were organized to mark the 75th year of the establishment of the department.

Honours /Distinctions

Prof. Manoj Kumar Singh and his research scholars unearth settlement on highway site which may date back to 6th -7th Century BC. <https://timesofindia.indiatimes.com/city/delhi/du-dept-unearths-settlement-on-highway-site-may-date-back-to-6th-7th-century-bc/articleshow/81537717.cms>

Dr. Vipin Gupta, was awarded 'Excellence Award for Teachers in Service' (Age 45 years or below) by the University of Delhi on its 99th foundation day, 2021.



Dr. Chakraverti Mahajan was selected for Charles Wallace Fellowship (2021-2022), Queen's University, Belfast.

Supriya Pandey, (B.Sc. class of 2021) won the '2021 Undergraduate Student Award for Outstanding Work' for her short film 'Non WORKING Woman'

<https://youtu.be/qvGluj4J9DM>.

This international award was bestowed by Society for Visual Anthropology, American Anthropological Association.

Publications

Bejar, CA., Goyal, S., Afzal, S., Mangino, M., Zhou, A., et al. 2021. A Bidirectional Mendelian Randomization Study to evaluate the causal role of reduced blood vitamin D levels with type 2 diabetes risk in South Asians and Europeans. *Nutritional Journal* 2021 Jul 27;20(1):71. (Springer-Nature) [IF:3].

Bindhani, B. K., Saraswathy, K. N., Nayak, J. K., Devi, N. K., (2021). Screening for the Sickle Cell Trait in Odisha, India: An Approach to a Major Public Health Burden. *Online Journal of Health and Allied Sciences*, 20(3).

Chatterjee, S. K., Yadav, S., Saraswathy, K. N., Mondal, P. R. (2021). Genetic polymorphism of dopamine receptor D4 (DRD4) gene in ten Indian rhesus macaques (*Macaca mulatta mulatta*). *Meta Gene*, 29, 100891.

Chaudhary, V., Longkumer, I., Kaur, Saraswathy, K. N. (2022). Gender-specific association of biochemical variables with depression: a population-based case-control study from North India. *Middle East Current Psychiatry* 29, 21

Dhall, M., Tyagi, R., Tungdim, M. G., Nilupher, Gupta, U., Devi, K. S., Kaur, J., Kapoor, A. P., Saini, M., Dhall, P., Rulu, P., Bhasin, P., & Kapoor, S. (2022). Nutrition, physical activity and psychological status during lockdown due to covid-19. *Acta Scientiarum. Health Sciences*, 44, e57231-e57231.

Dhall, Meenal., et al. Quality of Life, Lifestyle Diseases, Mental Health and Cognitive

Functioning: A Neuroanthropological Approach. *Mathews J Neurol*. 2021, 5(1):19.

Goyal, A., Saluja, A., Saraswathy, K. N., Bansal, P., & Dhamija, R. K. (2021). Role of ACE polymorphism in acute ischemic stroke. *Neurology India*, 69(5), 1217.

Gupta, A., Saluja, A., Saraswathy, K. N., Imnameren, L., Yadav, S., & Dhamija, R. K. (2022). PON1 (Paraoxonase 1) Q192R gene polymorphism in ischemic stroke among North Indian population. *Annals of Indian Academy of Neurology*, 25(1), 100.

Joshi, P.C. and Chakraverti M. (eds.). 2021. *Recent Advances in Indian Medical Anthropology*. Delhi: Concept Publishing Company.

Joshi, P.C. and Chakraverti M. 2021. 'Introduction: Emerging Challenges in Indian Medical Anthropology', In P.C. Joshi and Chakraverti Mahajan (eds.) *Recent Advances in Indian Medical Anthropology*. Delhi: Concept Publishing Company, pp. 1-19.

Joshi, R. (2021). Land and Gender: Looking through the Anthropological Lens to Explore the Rana Tharu Society of Uttarakhand. *Journal of Indian Anthropological Society*, 56 (2), 186-201.

Joshi, Richa. (2021). Land Governance: Paradigm Shift in Tribal Land Records in Indo Nepal Border. *The Oriental Anthropologist*, doi:10.1177/0972558X211033372.

Kamboj, Navjot, Kallur Nava Saraswathy, Mohinder Pal Sachdeva, Chakraverti Mahajan. 2021. Reproductive Trajectories and Hypertension: A Cross-Sectional Study from Delhi NCR. *Ind. J. Phys. Anthropol; Hum. Genet*. Vol. 40, No. 2: 135-145.

Kaur, Harmeet. (2021). Educational Schemes for the Marginalised Students: The case of Delhi Government Schools. *Education India: A Quarterly Refereed Journal of Dialogues on Education*, 10(4): 121-127.



Kaur, Jaisleen, and Meenal, Dhall. Reproducibility of fingerprint micro features. *Egyptian Journal of Forensic Sciences*. Volume 12, Article number: 7 (2022). <https://doi.org/10.1186/s41935-022-00266-6>

Kaur, Tajinder and Mitashree Srivastava. (2021) 'Women in Shadows:women with disabilities and covid-19 pandemic in India'. *The Asian Man;an International Journal*. ISSN no-0974-0074.

Kaur, Tajinder and Mitashree Srivastava (2021) "Disability and Adoption; anthropological reflections of mental health and well-being of children with special needs in India' as book chapter in *Anthropology of Health and well being*. Edited by M.P Sachdeva. ISBN 978-93-5439-086-9

Konyak, Eche Wangnyu and Avitoli G. Zhimo. 2022. Body Aesthetics: Contextualizing the Tattooing Culture of the Konyak Naga. *J. Indian Anthropol. Soc.* 57(1): 61-77(2022) Journal of the Indian Anthropological Society (ISSN 0019-4387)

Mahajan, Chakraverti. 2021. 'Militaryization and Mental Distress in Jammu and Kashmir', In P.C.Joshi and Ckaraverti Mahajan (eds.) *Recent Advances in Indian Medical Anthropology*. Delhi: Concept Publishing Company, pp. 144-163.

Mahajan, Chakraverti. 2022. Book Review: The Art of Being Human by Michael Wesch. *Journal of the Indian Anthropological Society*. 57(1):85-86

Ningombam, S. S., Newmei, M. K., Chhungi, V., Mondal, P. R., Devi, N. K., Saraswathy, K. N. (2021). Obesity, dyslipidaemia and candidate gene polymorphisms: a cross-sectional study among the Liangmai and Mizo tribes of Manipur, India. *Annals of Medicine*, 53(1), 1438-1446.

Patnaik, Soumendra Mohan (2021). Anthropologists Answer Four Questions about the Pandemic. World Anthropologies Section.

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Patnaik, Soumendra Mohan (2021). Vinay Kumar Srivastava : A Memoir (1952-2020) *Contributions to Indian Sociology*, Vol. 55, no. 2 : PP 167-171. DOI 10.1177/00699667211010062

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Saluja, A., Saraswathy, K. N., Thakur, S., Margekar, S., Goyal, A., & Dhamija, R. K. (2021). Endothelial nitric oxide synthase (Glu298Asp) polymorphism is associated significantly with ischemic stroke presenting with seizures and altered sensorium. *Neurology India*, 69(3), 686.

Sahal, Kalyani and M. Kennedy Singh. (2021). An Anthropological Understanding of Water related issues in Khetri Copper Mining Region, Rajasthan, India. *Journal of the Indian Anthropological Society*. Vol. 56. No. 3. pp 326 - 341 (2021)

Sharma, A., Mahajan, C., Saraswathy, K. N., Puri, M., & Babu, N. (2022). Struggling with Primary Infertility: Psychological Well-Being and Associated Factors in North Indian Women. *Journal of the Anthropological Survey of India*, 2277436X211073849.

Sharma, Apoorva., Akanksha Yadav and Chakraverti Mahajan. (2022). Let's talk about menstruation: A study on women's perception through their knowledge, attitudes and experiences. *Frontier Anthropology*. 11 (1): 1-11.

Shweta Jain, Renu Tyagi, Meenal Dhall, Satwanti Kapoor."Health Challenges for women during COVID-19". *Investigations in Gynecology Research and Women's Health*. August 2021, Vol. 4, issue 2.

Singh, Rajkumar and Mitashree Srivastava (2021) 'Dharmashala mein Baudh



Arthashatsra ki Khoj;; ek Manavigyan Pariprekshay', In Radha Kamal Mukherjee - *Chintan Parampara*, 23(1), Samaj Vigyan Sansthan, Bareilly U.P. ISSN no-0974-0074

Tiwari, Neha and M. Kennedy Singh. (2021). Problems of Education in Slums of Delhi. *International Journal of Educational Sciences*. 32 (1-3): 43-56 (2021)

Yadav, S., Longkumer, I., Joshi, S., Saraswathy, K. N. (2021). Methylenetetrahydrofolate reductase gene polymorphism, global DNA methylation and blood pressure: a population-based study from North India. *BMC Medical Genomics*, 14(1), 1-8.

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Zhimo, A.G. (2021). 'Institutionalization of Dobhasi: The British Strategy for the Naga Tribes in North-East India', In *Tribe-British Relations in India: Revisiting Text, Perspective and Approach*. Edited by M.C. Behera. Springer. DOI: 10.1007/978-981-16-3424-6_5 (October 2021)

Zhimo, A.G. 2021. 'Indigenising Christianity: Politics of Conversion among the Sumi Naga'. In *India's Tribes: Unfolding Realities*, Edited by

Vinay Kumar Srivastava. New Delhi: Sage Publications India Pvt. Ltd.

Research Projects

Prof. P.C. Joshi and Dr. Chakraverti Mahajan. "An Assessment of Social and Mental Health of Communities Living on the India-Pakistan Border in Jammu and Kashmir" funded by the Indian Council of Social Science Research (ICSSR), Amount sanctioned: 14.50 Lakhs. 2021-2023

Prof. K.N. Saraswathy, Prof. Manju Puri, Prof. Nandita Babu and Dr. Chakraverti Mahajan. "Infertility and its Psychological Impact: A Hospital based Case Control Study from North India" funded by the National Commission of Women (NCW), Amount sanctioned: 13 Lakhs. 2019-2022.

Prof. K. N Saraswathy (PI), Co- PI: Prof. Kewal Krishan, Prof. R. P. Mitra, Dr. R. K. Dhamija, Dr. Ranjita Pandey, Dr. N. Kiranmala Devi. "Global DNA methylation in hypertension: A population-based nested case-control study from Punjab" funded by ICMR dated 22.10.2021. Sanction amount: Rs. 55,44,192/- (2021-2024).

Prof. K. N. Saraswathy (PI) "Genetic and environmental determinants of common mental health disorders in young adults: A population-based study from Delhi" funded by IoE University of Delhi. Sanctioned amount Rs. 3,00,000/- (2021-2022).

Dr. Meenal Dhall. Quality of Life in pursuit of healthy ageing (Rs. 2.4 Lakhs), Institute of Eminence, University of Delhi, Delhi-110007.

Dr. N. Kiranmala Devi (PI). "ACE gene (D/I) polymorphism in Hypertension: A study among young adults of Delhi" funded by Institute of Eminence, University of Delhi.

Dr. Shivani Chandel (PI). "Common mental disorders, hypertension and obesity: A study among the adult population of Delhi" funded by Institute of Eminence, University of Delhi.



Prof. K.N. Saraswathy (PI). "Genetic and Environmental determinants of common mental disorders in young adults: A population-based study from Delhi" funded by Institute of Eminence, University of Delhi.

Prof. K. N. Saraswathy (PI). "A study on Thalassemia Awareness, Screening and Counseling among Youth Adults of Delhi and NCR (India)" funded by Indian Council of Medical Research.

Seminars organized

National Seminar on *Fieldwork and Methodology: Vinay Kumar Srivastava Memorial Seminar* was organized on, 2021, December 03-04 09:30 AM in dual mode. Organizers: Prof. R.P. Mitra & Dr. Chakraverti Mahajan.

National Seminar on "*Anthropology in 21st Century and Beyond*", 2022, February 9-11 in Hybrid mode. Organized by the Research Seminar Group; convenors: Prof.K. N Saraswathy, Dr. Vipin Gupta, Dr. Mitashree Srivastava.

Prof. K.N. Saraswathy organized a Symposium on '*Genome Diversity and Gene-Environment Interaction in Health and Disease*' as part of Indian Anthropology Congress-2022, Department of Anthropology, University of Hyderabad in collaboration with Indian National Confederation and Academy of Anthropologists, 2022, dated 2022, February 21-23.

Special Lectures

A special lecture on 'Artificial intelligence in cross-cultural studies: An ethical input in development process' was delivered by Prof. S. Sumathi, Prof. Emeritus, Department of Anthropology, University of Madras on Wednesday 7th April 2021 at 3:00PM via Zoom online platform.

Eminent Lecture delivered by Prof. S.L. Malik on the topic: *A Panorama of my anthropological thoughts*. 29 September 2021 4pm.

Eminent lecture delivered by Prof. Subhadra Channa on the topic: *Transition in the Discipline of Social Anthropology: Reflections based on experience of teaching at Anthropology department DU*. 8 October 2021, 3pm.

Eminent Lecture delivered by Prof. P.C. Joshi on the topic: *The future of Medical Anthropology in India* on 20 November 2021, 3pm.

Eminent Lecture Series delivered by Prof. V.R. Rao on the topic: 'Anthropology and Contemporary Relevance: An Anecdote' at 3:00pm on Dec 23, 2021.

Eminent Lecture Series on '*Tribal Habitats vs Prehistoric Habitats: An Ethnographic Approach for Understanding Indian Prehistory*' was delivered by Dr. P. Vijayaprakash on 17 January 2022, 3:00pm.

A special lecture on '*Graphic Politics in Eastern India: Script and the Quest for Autonomy*' was delivered by Dr. Nishaant Choksi on 9th March 2022, 3:30pm, Seminar Hall. It was chaired by Prof. P.C. Joshi and coordinated by Dr. Chakraverti Mahajan.

Special lecture on 'Nutrition Informatics' was delivered by Prof. Ashish Joshi (CUNY Graduate School of Public Health and Health Policy, New York, USA) on 30th March 2022.

Workshop organized

An international workshop on '*Digital Children: Learning Curves, Accessibility and Mental Health*' was organized from 12-13 November 2021, in celebration of 75 years of the department of anthropology. Organizing Secretary Dr. Avitoli G. Zhimo.

Seminar on *Public Health and Nutrition*. 30 November 2021. Organizing Secretary: Dr. Naorem Kiranmala Devi.

International Workshop on *Kinanthropometry and Human Welfare: A better understanding of growth, exercise, performance & nutrition* . 7



December 2021. Organizing Secretary: Dr. Shivani Chandel.

International Workshop on *Physiological Anthropology in Public Health* was held from 21-22, January 2022, in celebration of 75 glorious years of the department. Organising Secretary: Dr. Meenal Dhall.

Book Discussion organized

Book discussion on *Christianity and Politics in Tribal India: Baptist Missionaries and Naga Nationalism*, authored by Dr. G. Kanato Choppy and published by Permanent Black, was organized on 17 September 2021. Organizers: Dr. Avitoli G. Zhimo and Dr. Chakraverti Mahajan.

Book discussion on 'Recent Advances in Indian Medical Anthropology' edited by P. C. Joshi and Chakraverti Mahajan was organized on 5 October 2021 in dual mode.

Book Discussion PEOPLE - PARTY - POLICY INTERPLAY IN INDIA: Micro- Dynamics of Everyday Politics in West Bengal, C. 2008-2016, authored by Suman Nath was held on 25 November 2021. Organised by Dr. Chakraverti Mahajan.

Seminars/Conference Presentations (National /International)

International:

Kahn Alison and Avitoli G. Zhimo. 2021. *A visual critique on the Secret Museum of Anthropology (1935)*. PHOTO OXFORD FESTIVAL (UK), HATCHED2021: Women Creating Landscapes. 2021, November 04-05.

Zhimo Avitoli G. 2021. 'Images of indigenous women in colonial writings: An auto ethnographic insights' on Panel 74 *Ethnographic Audiovisual Archives: Indigenous People and Restitution of their Cultures* [Commission of Museums and Cultural Heritage (COMACH)] at IUAES 2021 Yucatan. 2021, November 09-13.

National:

Chandel Shivani. 2021. 'A Review of Musculoskeletal Disorders and Psychosocial

Stress among Farmers: Current Gaps and Roadmap for Future Research'. National Seminar on *Anthropology of Health and Wellbeing*, 2021, May 29-30. Department of Anthropology, University of Delhi.

Devi N. Kiranmala. 2021. COVID-19 and Maternal Health: Short- and Long-Term Implications. National Seminar on *Anthropology of Health and Wellbeing*, 2021, May 29-30. Department of Anthropology, University of Delhi.

Gupta, Vipin. 2021. 'Social Epidemiology of Maternal and Child Health in India'. National Seminar on *Anthropology of Health and Wellbeing*, 2021, May 29-30. Department of Anthropology, University of Delhi.

Mahajan Chakraverti. 2021. 'Psychological health and Wellbeing among Infertile Women: A Hospital-based Case-Control Study from North India'. National Seminar on *Anthropology of Health and Wellbeing*, 2021, May 29-30. Department of Anthropology, University of Delhi.

Mitra R.P, 2021. 'Celebrating the Contributions of Prof. P.C. Joshi to Medical Anthropology'. National Seminar on *Anthropology of Health and Wellbeing*, 2021, May 29-30 Department of Anthropology, University of Delhi.

Mondal P.R. 2021. The Effects of Corona Virus Disease 19 (COVID-19) on Non-Human Primates and Probable Way out – A Review. National Seminar on *Anthropology of Health and Wellbeing*, 2021, May 29-30. Department of Anthropology, University of Delhi.

Murry Benrithung. 2021. 'Challenges and Prospects of Beta Thalassemia Screening: Global and Indian Scenario'. National Seminar on *Anthropology of Health and Wellbeing*, 2021, May 29-30. Department of Anthropology, University of Delhi.

Sachdeva M.P. 2021. Building a Bio-Social Understanding of Diseases: An Overlooked Sine Qua Non'. National Seminar on *Anthropology of Health and Wellbeing*, 2021,



May 29-30. Department of Anthropology, University of Delhi.

Saraswathy K.N. 2021. Folic Acid Supplementation in Pregnancy: An Anthropological Insight. National Seminar on *Anthropology of Health and Wellbeing, 2021*, May 29-30. Department of Anthropology, University of Delhi.

Singh M. Kennedy. 2021. A Study on Attitudes towards Menstruation in Assam'. National Seminar on *Anthropology of Health and Wellbeing, 2021*, May 29-30. Department of Anthropology, University of Delhi.

Srivastava Mitashree. 2021. 'Disability and Adoption: Anthropological reflections on Mental Health and Wellbeing of Children with 'Special' Needs in India'. National Seminar on *Anthropology of Health and Wellbeing, 2021*, May 29-30. Department of Anthropology, University of Delhi.

Yadav Suniti. 2021. Covid-19 Pandora box: The Current Scenario, Science and Social Science of Vaccine Uptake. National Seminar on *Anthropology of Health and Wellbeing, 2021*, May 29-30. Department of Anthropology, University of Delhi.

Zhimo Avitoli G. 2021. 'Zoopharmacognosy, Dreams and Incantation: Indigenous Healing Practices among the Zeme Naga'. National Seminar on *Anthropology of Health and Wellbeing, 2021*, May 29-30. Department of Anthropology, University of Delhi.

Foreign Students under Exchange Programme

Ms. Marah Litchford is a visiting Ph.D. scholar under the Fulbright-Nehru Student Research Program (2022-2023). She is a Ph.D. student from the Department of Religion, Florida State University and shall be working with Dr. Chakraverti Mahajan for nine months w.e.f April 2022.

Extension and Outreach Activities

Invited lectures/ Resource Persons in other Universities:

Prof. S M Patnaik delivered an Invited Lecture on *Challenges of Leadership in Academic*

Institutions during the Pandemic Utkal University through zoom platform on 27 August 2021.

Prof. K. N. Saraswathy delivered an online invited talk titled "Research Proposals and Funding opportunities in Health sciences" in the National level Webinar on 'Research & Innovation, Research Paper Publications IPR and Patents Research Projects & Fundraising' for Faculty Members of Higher Educational Institutions organized by Institute of Academic Excellence (Hyderabad, Telangana) conducted from 27th - 31st August 2021.

Prof. K. N. Saraswathy was a Resource Person and delivered an online talk on "Research Proposals and Funding opportunities in Health sciences" on the National Webinar on "*Current Trends in Research Innovation, Research Paper Publications, IPR and Patents, Research Projects Fund Raising*" for the Faculty Members of Higher Educational Institutions (Institute for Academic Excellence, Hyderabad) from 27th to 31st August 2021.

Dr. Avitoli G. Zhimo was invited as Resource Person in a workshop on *Digital Anthropology and Fieldwork* on 15th July 2021, at Amity Institute of Anthropology, Amity University Uttar Pradesh.

Dr. Avitoli G. Zhimo delivered an invited Talk on *Techniques of Ethnographic Filmmaking*, Organized by Department of Sociology, Pranabananda Women's College, Dimapur: Nagaland. 14 September 2021.

Dr. Avitoli G. Zhimo delivered an invited lecture in an online workshop on *Research Methodology and Ethics of Ethnographic Film-Making in North-East India*, organized by the Centre of Excellence, Centre of North-East India Studies, Utkal University, Bhubaneswar. 11 November 2021.

Dr. Avitoli G. Zhimo was an invited Resource Person in a '*Capacity Building Training Program on Digital Ethnography: Ethnographic Methods for Documentation of Tribes*' organized by Scheduled Castes and Scheduled



Tribes Research and Training Institute, Government of Odisha and Ministry of Tribal Affairs, GOI on 30 November 2021. Her three hours' talk was on 'Visual Documentation of tribes: Ethics and Methods'.

Dr. Avitoli G. Zhimo delivered an invited talk on 'Anthropology and Filmmaking' at *Career Choices in Anthropology* organized by Anthropos India Foundation on 29 January 2022.

Dr. Avitoli G. Zhimo delivered an invited lecture in online mode on 'Visual aid in teaching and learning process' at the 6th Faculty Induction Programme organized by UGC-HRDC, University of Allahabad, February 1, 2022.

Dr. Avitoli G. Zhimo delivered an invited lecture on 'Visual Ethnography in Social Science Research' (8 March 2022) at 7 Days' Workshop on Doing Sociological Research: An Interdisciplinary Perspective in hybrid mode from 7-15 March 2022, organized by the Department of Sociology, School of Humanities and Social Sciences, Central University of Haryana, Mahendergarh.

Dr. Naorem Kiranmala Devi delivered an online invited lecture titled "Impact of COVID- 19 Pandemic on Eating Behavior" in the Web-Symposium on The Impact of COVID-19 Pandemic on Health, Environment and Food Systems with Special Reference to the Youth organised by UIAF in collaboration with Department of Anthropology, Gauhati University held on 12th August, 2021.

Dr. Chakraverti Mahajan delivered an online lecture entitled "Doing Fieldwork in the Time of Pandemic: Challenges and Opportunities" in a Refresher Course on Liberal Arts organized by the Human Resource Development Centre, Guru Nanak Dev University, Amritsar on October 22, 2021.

Dr. Chakraverti Mahajan delivered an online lecture entitled "Epistemology and Methodology" to the participants of a Research Methodology Workshop organized by the Department of Political Science,

University of Lucknow, Lucknow on November 9, 2021.

Dr. Chakraverti Mahajan delivered an online lecture entitled "Fieldwork and Methodology in Social Anthropology" to students of the Manipal Academy of Higher Education, Dubai Campus on November 10, 2021.

Dr. Chakraverti Mahajan delivered an invited lecture on 'Learning through practice: Fieldwork based approaches' in the 6th Faculty Induction Programme organized by UGC-HRDC, University of Allahabad on 17 January 2022.

Dr. Chakraverti Mahajan was invited as a panelist on the National Programme of Talks (English) "Content Vs Candy floss" organized by All India Radio on 18 January 2022.

Dr. Mitashree Srivastava participated as panel key speaker in webinar on financial inclusion in Tribal India 27th Feb 2022, 6 pm at Society for Empowerment non-governmental organisation, Headquarter: Patna. Title of Presentation- Financial inclusion in Tribal India: Banking at Cross roads.

Dr. Mitashree Srivastava Participated as panel speaker in webinar "breaking the bias" conducted by UIAF on the occasion of International women's day 2022. As part of gender dialogue series. Theme of paper "Breaking the bias: a reflexive understanding of women empowerment in academia".

Dr. Mitashree Srivastava Participated as resource person at Harisingh Gour Vishwavidyalaya Sagar (M.P.), Refresher Course on "Shifting Paradigms in Social Science Research" from 6th to 18th December 2021. Presented on the theme of Narrative and Discourse analysis. 14th dec 2021.

Dr. Suniti Yadav delivered an online invited lecture as an Expert Panelist for a Webinar on Cellular and Molecular Biology under Initiative for Research and Innovation in STEM (IRIS) National Fair funded by DST, GOI on 4 July, 2021.



Dr. Suniti Yadav delivered an online invited lecture on People & Science: From Basic Mechanism to Clinical Perspectives organised by Faculty of Allied Health Sciences, Chettinad Academy of Research and Education, Chennai, Tamil Nadu on 27 August, 2021.

Trainings/ Faculty Development Programmes/Refresher Course attended

Dr. Avitoli G. Zhimo participated in one week online Interdisciplinary faculty development Programme on “*Interdisciplinary Studies and Higher Education: Prospects and Challenges*” organized by Mahatma Hansraj Faculty Development Centre, A Centre of MoE, Govt. of India, Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Hansraj College from 26th – 31st July, 2021.

Dr. Avitoli G. Zhimo completed one-week Faculty Development course on ‘*Meaningful research and Intellectual Property Rights*’ organized by Teaching Learning Centre, Ramanujan College, University of Delhi, in collaboration with Rajkiya Engineering College, Kannauj, Uttar Pradesh And Satyawati College (M), University of Delhi under the aegis of Ministry Of Education, Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching. 18-24 October 2021.

Dr. Chakraverti Mahajan attended an online workshop on Advanced Qualitative Research Methods in Psychology (AQRMP) organised by the National Academy of Psychology and the Jawaharlal Nehru University, New Delhi (NAOP-JNU) from October 23- November 1, 2021.

Dr. Meenal Dhall has participated in the webinar titled “Protecting Breastfeeding: Where lies the responsibility?” on 6th August 2021 organized by Department of Community Medicine and School of Public Health, PGIMER, Chandigarh on the occasion of Breastfeeding Week (1st to 7th August, 2021).

Dr. Mitashree Srivastava Participated online two-week interdisciplinary refresher course

/Faculty development programme. “Advanced Research Methodology 2.0” from 17 June - 01 July, 2021 Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of, Ministry of education, Pandit Madan Mohan Malviya National Mission on teachers and teaching.

Dr. Mitashree Srivastava participated in the National level two weeks “Capacity Building Training Programme, for Young Social Science Faculty (ONLINE)” during 19th April to 1st May, 2021. This programme was sponsored by the Indian, Council of Social Science Research (ICSSR), New Delhi and conducted by Centre for Social Studies, Sur.

Dr. Shivani Chandel Participated in an online two-week interdisciplinary refresher course /Faculty development programme. “Advanced Research Methodology 2.0” from 17 June - 01 July, 2021 Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of, Ministry of education, Pandit Madan Mohan Malviya National Mission on teachers and teaching.

Extension and Outreach Activities by students

Mercy Kipgen (M. Phil) is volunteering with Hope school (which focuses on slum children who cannot afford education) and Hope project (class for especially abled children). Hope school was established in 2010 under TEJAS ASIA and is located in Tughlakabad, Delhi.

Madhurima Chatterjee (Ph.D. scholar) was involved in two Small Relief Projects done on Amphan and Yass cyclone affected areas - Sandeshkhali and Junput coastal area of West Bengal (May 2020-May 2021). She is continuously working with locals and community workers dealing with climate change. She was/is involved in other activities- Homeless dogs for sterilization, vaccination, Tiger and mangrove conservation movements, feeding drives throughout lockdown etc.

Ishani Dubey (B.Sc. class of 2023) is involved with a Fundraising campaign for acid attack survivors of Sheroes hangout cafe, Lucknow.



She also co-founded a pan-DU club in June, 2021 named Pink Legal Club Cornelia leading a team of 20 members who work for gender equality, spreading awareness for marginalized women about their basic laws through open mics, podcast, workshops etc.

Mumuksha Porwal (B.Sc. class of 2022) is a part of core team of digital magazine "childhood matters" by Anthropos India Foundation in order to spread awareness about child rights and protection (Oct 2021- present).

Habiba Haroon (B.Sc. class of 2022) volunteered in Pledge a Smile Foundation from Jan 2021 – Feb 2021. Her activities include raising funds, Social Media Marketing and Development of Project for the Children's cause. She also worked with NGO- CRY (Child Rights and You) from 30th August 2021- 10th October 2021. Currently she is also a volunteer at Aaghaz-e- Taleem since 6 March 2022 that works towards 'better health and education outcomes for slum children'.

Preeti (M.Sc. class of 2023) is working as an intern with Pledge a Smile Foundation under

project SEVA which aims at providing food to underprivileged and needy people. It is an online internship that focuses on social media platforms to create awareness. June -July 2022.

Naguri Shyam Joel (B.Sc. class of 2022) founded a platform called Abhitha in Hyderabad to help women from marginalised communities build skills and find space to sell their products.

<https://www.newindianexpress.com/cities/hyderabad/2019/dec/26/hyderabad-boy-make-platform-for-women-from-marginalised-communities-to-build-skills-2080917.html>

Number of M.Phil. and Ph.D. awarded

Ph. D: 07

M. Phil: 05

Faculty strength

Professors: 07

Associate Professors: 03

Assistant Professors: 06

Department of Botany

Brief History

The Department of Botany was established in the year 1947 with about 50 students and a couple of faculty members, including the then Head, Dr. J.J. Chinoy. Since then, the Department has expanded to a current strength of more than 300 post graduate students and research scholars.

Late Prof. Panchanan Maheshwari joined the Department in 1949 and served as Head from 1950-1966. Under his dynamic and visionary leadership, the Deptt. attained international fame and was recognized by UGC as a Centre of Advanced Study (CAS) in Botany and as Centre for Excellence in 1963 especially in the field of morphology and embryology.

The International Society of Plant Morphologists (ISPM) was founded by late Prof. P. Maheshwari in 1950 and publishes an International Journal – Phytomorphology. The Delhi University Botanical Society (DUBS) was also founded in 1950 and continues its vibrant activities by arranging lectures by eminent scientists, organizing symposia, nature photography, quiz contests and philately competitions among students. DUBS also publish an Annual Magazine – The Botanica, that features popular / semi-technical articles in diverse areas of plant sciences.

Major Activities and Achievements

The Department of Botany continues to be engaged in a productive manner in both teaching and research. The M.Sc. Botany program imparts education in diverse subject



areas related to Plant Sciences with an objective of providing holistic, experiential and an interdisciplinary education to students. Interdisciplinary papers are offered with the involvement of faculty from other departments of Delhi University. The Department faculty is engaged in high quality research on several plant species ranging from algae, bryophytes, pteridophytes and gymnosperms to crop plants and forest trees. Research paradigms range from morphological, anatomical, genetic, physiological and biochemical studies, systematics and evolution, to use of genomics, proteomics and transgenic technologies, study of ecosystems, conservation, and plant-based nanotechnological approaches. This extensive diversity of research paradigms allows students to gain a multidisciplinary outlook and training in cutting-edge technologies. The faculty has an active publication profile and their work is recognized in various National and International forums.

Honours/Distinctions

Prof. P.L. Uniyal: elected as a President of Indian Fern Society.

Prof. P L Uniyal: elected as Treasurer of the Orchid Society of India.

Prof. Rupam Kapoor: Guest Editor Special theme 2022 “Arbuscular Mycorrhiza-Mediated Augmentation of Plant Secondary Metabolite Production” *Frontiers in Plant Science – Plant Symbiotic Interactions*.

Prof. Rupam Kapoor: Additional Secretary (2021-25), International Society of Plant Morphologists.

Prof. Yashwanti Mudgi: Guest Editor Special theme 2022 “Abiotic Stress and Plant Immunity” *Frontiers in Plant Science – Plant Membrane Traffic and Transport*.

Publications

Research Articles

Adit A., Koul M., Choudhary A. K., & Tandon R. (2022). Interaction between *Cymbidium aloifolium* and *Apis cerana*: Incidence of an

outlier in modular pollination network of oil flowers. *Ecology and evolution*, 12(3), e8697.

Adit A., Koul M., Choudhary A. K., & Tandon R. (2021). Breeding System and Response of the Pollinator to Floral Larceny and Florivory Define the Reproductive Success in *Aerides odorata*. *Frontiers in Plant Science*, 12, 767725-767725.

Dhyani A., Baishya, R., Uniyal P. L., & Rao K. S. (2022). Bryophyte diversity and community composition in the gap and non-gap areas of Chakrata forest range, Uttarakhand, India. *Vegetos*, 35(1), 251-257.

Giri P., & Uniyal P. L. (2022). Edible Ferns in India and Their Medicinal Uses: A Review. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 1-9.

Gupta, S., & Seth C. S. (2021). Salicylic acid alleviates chromium (VI) toxicity by restricting its uptake, improving photosynthesis and augmenting antioxidant defense in *Solanum lycopersicum* L. *Physiology and Molecular Biology of Plants*, 27(11), 2651-2664.

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Kumar D., & Seth C. S. (2022). Photosynthesis, lipid peroxidation, and antioxidative responses of *Helianthus annuus* L. against chromium (VI) accumulation. *International Journal of Phytoremediation*, 24(6), 590-599.

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tobacco. *Phytomorphology*, 28(10), 5526–5537.

Mathur P., Sharma E., & Kapoor R. (2022). Role of Nitrogen and Sulphur Fertilization for Sustaining the Growth, Physiology and Defence of Brassica juncea L. (Indian Mustard) Plants Exposed to Enhanced CO₂ Concentration. *Journal of Soil Science and Plant Nutrition*, 22(1), 778-790.

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Lal M., Bhardwaj E., Chahar N., Yadav S., & Das S. (2022). Comprehensive analysis of 1R-and 2R-MYBs reveals novel genic and protein features, complex organisation, selective expansion and insights into evolutionary tendencies. *Functional & Integrative Genomics*, 1-35.

Parveen S., Singh N., Adit A., Kumaria S., Tandon R., Agarwal M., & Goel S. (2022). Contrasting Reproductive Strategies of Two Nymphaea Species Affect Existing Natural Genetic Diversity as Assessed by Microsatellite Markers: Implications for Conservation and Wetlands Restoration. *Frontiers in plant science*, 13, 773572-773572.

Prakash S., Rani Rajpal V., & Deswal R. (2022). Phytonanotechnology: Recent applications and the role of Biocorona. *Indian Journal of Biochemistry and Biophysics (IJBB)*, 59(4), 405-414.

Raturi D., Chaudhary M., Bhat V., Goel S., Raina S. N., Rajpal V. R., & Singh A. (2022). Overview of developed core and mini core collections and their effective utilization in cultivated rice and its related species (*Oryza* sp.)—A review. *Plant Breeding*, 141(4), 501-512.

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Nymphaea Species Affect Existing Natural Genetic Diversity as Assessed by Microsatellite Markers: Implications for Conservation and Wetlands Restoration. *Frontiers in plant science*, 13, 773572-773572.

Singh H. D., Sharma M., Mohapatra P., Goel S., Jagannath A., & Agarwal M. (2022). Establishment of a correlation between pistil size and female gametophyte developmental stages in apomictic and sexual lines of *Cenchrus americanus* (L.) Morrone. *Vegetos*, 1-7.

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Singh V., Kumar S., & Lakhanpaul S. (2022). Micromorphological analysis indicates reversion of sesame extrafloral nectary to flower-like structure with the onset of phytoplasma infection reflecting its evolutionary path. *South African Journal of Botany*, 148, 60-66.

Siwach A., Kaushal S., & Baishya R. (2021). Terricolous mosses impact soil microbial biomass carbon and enzymatic activity under temperate forest types of the Garhwal Himalayas. *Environmental Monitoring and Assessment*, 193(8), 1-14.

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Exploration of the Role of NDL1 Interacting Partners. *Cells*, 10(9), 2261.

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Siwach A., Kaushal S., & Baishya R. (2021). Effect of Mosses on physical and chemical properties of soil in temperate forests of Garhwal Himalayas. *Journal of Tropical Ecology*, 37(3), 126-135.

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Tripathy M. K., Deswal R., & Sopory S. K. (2021). Plant RABs: role in development and in abiotic



and biotic stress responses. *Current Genomics*, 22(1), 26-40.

Verma K., Mehmood T., Uniyal P., Kapoor R., & Sharma Y. P. (2021). Two new species of genus *Lactarius* (Russulaceae) from North-western Himalaya, India. *Phytotaxa*, 500(4), 253-265.

Verma P., Singh A., Kalla S., & Lakhanpaul S. (2021). Occurrence of cpG islands in differentially methylated Loci in *Sesamum indicum* L. upon phytoplasma infection. *Phytopathogenic Mollicutes*, 11(1), 45-50.

Books/Chapter in Books

Babuta P., & Deswal R. S-Nitrosylation and Denitrosylation: A Regulatory Mechanism during Abiotic Stress Tolerance in Crops. In *Advancements in Developing Abiotic Stress-Resilient Plants* (pp. 65-83). CRC Press.

Sehrawat A., & Deswal R. (2022). Proteomics Approach to Uncover Key Signalling Pathways in *Brassica juncea* in Abiotic and Biotic Stress. In *The Brassica juncea Genome* (pp. 337-347). Springer, Cham.

Giri P., Kumari P., Sharma P., & Uniyal P. L. (2021). Ethnomedicinal uses of Pteridophytes for treating various human ailments in India. *New vistas in Indian flora, 1st Edn. M/s Bishen Singh Mahendra Pal Singh Dehradun, India. ISBN, 978-81.*

Yadav H., & Uniyal P.L. (2021). Potential of Gymnosperms as source of medicinal products, Delhi. *ABS Books*, 297-308.

Bhardwaj E., Shukla R., & Das S. (2020). Plant roots and mineral nutrition: an overview of molecular basis of uptake and regulation, and strategies to improve nutrient use efficiency (NUE). *Plant Stress Biology*, 131-184.

Singh A., & Das S. (2021). Slicing Messengers by Artificial Designs: Artificial MicroRNA Induced Gene Silencing in Polyploid Plants for Functional Genomics and Trait Modification. In *RNA-Based Technologies for Functional Genomics in Plants* (pp. 77-129). Springer, Cham.

Journals

Prof. R. Geeta, (2021), *Phytomorphology*, ISPM, 1-4, 71, 113.

Prof. Sandip Das (2021), *Botanica*, DUBS, 2019-20, 69, 102.

Research Projects

Institute of Eminence, University of Delhi, 2021-2022, Molecular cloning, purification and characterization of S-nitrosogluthione reductase (GSNOR), a master regulator of NO homeostasis from *Brassica juncea*., Rs. 3,00,000/-

Institution of Eminence, University of Delhi, 2021-2022, Investigations on the variation in soil characteristics and physiological attributes of terricolous mosses under heavy metal stress in Central Himalayas, Uttarakhand, Rs. 3,00,000/-

Institution of Eminence, University of Delhi, 2021-2022, Domain characterization of *Arabidopsis* VQ36 to establish minimal NDL1 interacting region in-plant, Rs. 3,00,000/-

Institution of Eminence, University of Delhi, 2021-2022, Transcriptome sequencing of *Lipaphis erysimi* and *Myzus persicae* and analysis of differentially expressed genes between the two-aphid species and their developmental stages, Rs. 3,00,000/-

DBT, Dec.2021-Dec.2024, Characterisation of MIR395 and MIR399 regulated by bidirectional promoter from *Brassica juncea* to understand Sulphate and Phosphate uptake, and designing novel promoters for crop improvement, Rs. 66,50,000/-

DST-SERB, 2021-2024, Deciphering evolution of dioecy and gender determination mechanism in Himalayan Seabuckthorn using molecular and cytogenetic tools, Rs. 23,87,000/-



DBT, 2021-2026, Deciphering the role of SIX genes in virulence and host-specificity of *Fusarium oxysporum* f. sp. *carthami* [BT/PR33059/AGIII/103/1195/2020], Rs. 73,49,000/-

DST-SERB, 2020-2023, Deciphering the mechanisms of reduced uptake and accumulation of Arsenic (As) in grain by arbuscular mycorrhizal fungi to develop mitigation strategies for wheat irrigated with As-contaminated ground water in India”, Rs. 36,33,000/-

DBT-ICAR, 2020-2025, Exploiting Genetic Diversity for Improvement of Safflower through Genomics-Assisted Discovery of QTLs/Genes Associated with Agronomic Traits” under “National Mission on Minor Oilseed Crops”, Rs.481.7396 Lakhs

DST-SERB, 2020-2023, Deciphering the mechanisms of reduced uptake and accumulation of Arsenic (As) in grain by arbuscular mycorrhizal fungi to develop mitigation strategies for wheat irrigated with As-contaminated ground water in India, Rs. 36,33,000/-

National Mission on Himalayan Studies, MoEF, 2020-2023, Diversity and Indigenous Knowledge on Macrofungi in Trans Himalayan District of Kargil., Rs. 22,75,000/-

ICAR-NASF, 2020-2023, Delineating the effector biology of phytoplasma affecting selected crop taxa in India with special emphasis on sesame (*Sesamum indicum* L.), Rs. 80,00,000/-

DBT, Sep.2019-Sep.2022, Characterization of role of miR159 in male-meiosis and filament elongation in *Brassica juncea* and *Arabidopsis thaliana*: strategies for crop improvement, Rs. 67,00,000/-

DBT, 2019-2022, A biotechnological approach to elucidate adaptation mechanism, migration pattern and reproductive biology of indicator temperate_x005falpine plants in Himalayas in response to changing climate, Rs. 89,00,000/-

DST-SERB, 2019-2022, Phosphatidic acid-protein interactions: molecular mechanism and role during abiotic stress in *Arabidopsis*, Rs. 46,30,000/-

DBT, 2019-2022, Global perspective of transcriptome, proteome and metabolome of root knot nematode effectors conferring host specificity and host response to them during disease development, Rs. 56,66,000/-

DST-SERB, 2019-2022, Identification of miRNAs from contrasting lines of *Carthamus* and their contribution in tolerance against *Fusarium* wilt, Rs. 40,35,000/-

DBT, Feb.2018-Aug.2021, Root Development Related Signaling Networks: Role of At N-myc Downregulated Like Proteins and Interacting Partners, Rs. 49,87,000/-

ICAR-NASF, 2018-2022, Identification of super donors and alleles for spikelet fertility and low chalkiness under thermal stress in rice, Rs. 1,01,36,000/-

Seminars/Conferences

Dr. Faiyaz Khudsar, Scientist-In-charge, Yamuna Biodiversity Park, CEMDE, D.U., Delhi University Botanical Society (DUBS), National Science Day, 2022, February 28.

Prof. Mrutunjay Suar, Director: General R&D, KIIT University & CEO, KIIT- TBI, Bhubaneswar, Delhi University Botanical Society (DUBS), Lecture on opportunities in Plant Sciences, 2022, February 12.

Prof. D.B. Sahoo, Prof., Department of Botany, University of Delhi, National Environmental Science Academy and Department of Botany, University of Delhi, 1st Dr. S.Z. Qasim Memorial Lecture, 2021, December 31.

Prof. Renu Deswal, Prof., Department of Botany, University of Delhi, Delhi University Botanical Society (DUBS), Next Generation Proteome Mining and Nano-Bio interactions for better Plant Health, 2021, December 29.

Prof. Rupam Kapoor, Convenor, Prof., Department of Botany, University of Delhi,



SERB and Department of Botany, Microbes for Sustainable and Resilient Future, 2021, December 11.

Prof P. Balaram, Distinguished scientist and former Director, Indian Institute of Science, Bangalore, University of Delhi, Prof. Panchanan Maheshwari Memorial Lecture, 2021, November 09.

Prof. William (Ned) Friedman, Arnold Prof. of Organismic and Evolutionary Biology; Director of the Arnold Arboretum, Harvard University, Department of Botany, University of Delhi, H.Y. Mohan Ram Memorial Lecture, 2021, September 24.

Seminar/Conference Presentations (National/International)

Deswal R (2022) delivered virtual lecture entitled- “Brassica Leaf Cuticle Proteome- A Treasure Trove” at 3rd International Conference on Genome Biology (ICGB-3) & 53rd Aqua Terr Day on 2022, March 02 at School of Biological Sciences, Madurai Kamaraj University, Madurai, Tamil Nadu, India.

Sharma S. and Deswal R (2022). Poster entitled “Tuber proteome analysis of *Dioscorea alata* tuber reveals differential regulation of growth associated pathways during tuber development” in International Conference Environment, Water, Agriculture, Sustainability and Health (EWASH-2021): United Together in the battle against Pandemic and 3rd Annual meet of STE from, 2022, January 21-22.

Deswal (2021). Delivered lecture on “Nanoproteomics: From Nano-Analytical platforms to Protein Corona” in virtual conference on “Next generation proteome mining and Nano-bio interactions for better plant growth” organized by DUBS, Department of Botany University of Delhi from, 2021, December 27-20.

Deswal R. (2021) delivered an invited lecture entitled “Exploring the nano-biotechnological potential of Seabuckthorn and analysis of gold

nanoparticle protein corona in *Brassica juncea* in 4th National Conference on Cellular and Molecular Biology & Biotechnology on, 2021, October 29. organized by Sharda University, School of Engineering and Technology, Department of Biotechnology, Greater Noida.

Babuta P. and Deswal R. (2021). Flash talk on “S-nitrosoglutathione reductase (GSNOR) in *Brassica juncea* seems to be a multicopy gene” in 13th annual meeting of Proteomics Society, India & International conference on “omics in redefining modern biology” organized by The Proteomics Society of India (PSI) and The Centre for Cellular & Molecular Biology (CCMB), Hyderabad (2021, October 20-23).

Prakash S. and Deswal R. (2021). Poster entitled “Phytonanotechnology: Current status, challenges and leads for future” presented at two-day International Conference “Nanomedicine: Biomolecules for Human Health” (NBHH-2021) via virtual mode on 2021, September 27-28. Organized by Department of Botany & Zoology, Kirori Mal College.

Chaurasia S, Yadav K. and Deswal R. (2021). Poster entitled “Detection and characterization of antifreeze activity from *Brassica juncea* leaf cuticle” presented at CRYO2021, the 58th Annual meeting of the Society for Cryobiology, 2021, Baltimore, United States on, 2021, July 20-23.

Uniyal P.L. 2022. Perspective in the study of pteridophytes {pp 50}. oral presentation, International Symposium on Research in pteridology: Priorities and Challenges at Calicut University, Malappuram, Kerala during, 2022, March 17-19.

Trait Modification and Crop Improvement: The Journey of (Bio)Informatics, Omics and Biology (2021) Sandip Das. In: International conference on “Genetics and Genomics technologies for crop improvement ” Organized by Hansraj College, Delhi University, India and CIMMYT, Mexico; 2021, August 01-03.



Organisation of Microrna Gene Cluster, Transcriptional Regulation, and Functional Genomics of Micrnas In Polyploid Brassica Species. (2021) Sandip Das Aditi Jain, Ekta Bhardwaj, Priyanka Rathore, Saurabh Anand, Chetan Chauhan. 42nd Annual Meeting of Plant Tissue Culture Association (India) & International Symposium on Advances in Plant Biotechnology and Genome Editing-2021 (APBGE-2021) (2021, April 8-10), ICAR-Indian Institute of Agricultural Biotechnology, Ranchi-834010, India.

Presented a poster by Shubhangi Kalla, Ravi Gupta, Pratima Verma and Suman Lakhanpaul (2021) "Comparative Proteomic Analysis of healthy and Phyllody affected Sesame (*Sesamum indicum* L.) Plants" at XXIII Biennial Congress of the International Organization for Mycoplasmaology (IOM), during, 2021, November 01-04.

Presented a poster by Pratima Verma, Amrita Singh Shubhangi Kalla and Suman Lakhanpaul (2021) "Phytoplasma infected Sesame (*Sesamum indicum* L.) Plants Show Altered Methylation Status of STOREKEEPER-Like Protein Locus in Comparison to Heal" at XXIII Biennial Congress of the International Organization for Mycoplasmaology (IOM), during, 2021, November 01-04.

International Conference on Genetics and Genomics Technologies for Crop Improvement. 2021, August 01-03. Hansraj College, University of Delhi and CIMMYT (Mexico). Arun Jagannath, Keynote Lecture on "Use of integrative multifaceted approaches for study of plants – Essential or Avoidable?".

International Symposium on Advances in Plant Biotechnology and Genome Editing & 42nd Meeting of Plant Tissue Culture Association (India). 2021, April 08-10. ICAR-Indian Institute of Agricultural Biotechnology, Ranchi, India (Online Presentations) Maloti Hembram, Bharat Joshi, Arundhati Mukhopadhyay, Manu Agarwal, Shailendra Goel, Arun Jagannath. "Manipulating the GA3OX4 gene of gibberellin biosynthesis pathway to modulate seed size in Brassica juncea (Indian Mustard)".

1Department of Botany, University of Delhi, North Campus, Delhi-110007; 2Centre for Genetic Manipulation of Crop Plants, University of Delhi South Campus, New Delhi-110021. Author for Correspondence: Best Poster Award.

Manvi Sharma¹, Rubina Chongtham, Sanjay Saxena, Arundhati Mukhopadhyay, Manu Agarwal, Shailendra Goel, Arun Jagannath. "Development of aphid resistance in the oilseed crop Brassica juncea (Indian Mustard) using plant-mediated RNAi". 1Department of Botany, University of Delhi, North Campus, Delhi-110007; 2 Centre for Genetic Manipulation of Crop Plants, University of Delhi South Campus, New Delhi-110021. #Author for Correspondence: Best Poster Award.

Other Inter-Institutional Collaborations

Prof. Arun Jagannath and Prof. Shailendra Goel: Collaborative research with Denmark Technical University and Indian Institute of Oilseeds Research, Hyderabad.

Prof. P.L. Uniyal: A research Collaboration with the Botany Department of Rajiv Gandhi University, Arunachal Pradesh, to conduct the floristic studies in the Arunachal Pradesh. Their Students visit my lab for the Biosystematic studies on plants.

Extension and Outreach Activities

Renu Deswal (2022)

Attended academic Audit meeting of Central University of Haryana, Mahendragarh as an external expert for eight departments of Interdisciplinary and Applied Sciences (Namely-Department of Biochemistry, Department of Biotechnology, Department of Microbiology, Department of Nutrition Biology, Department of Pharmaceutical Sciences, Department of Environmental Sciences, Department of Library and Information Sciences and Department of Yoga) on 04 April 2022.

Attended GATI Phase 1,2 & Phase 3 virtual session on "Data collection and analysis" on 17th March, 2022.

Delivered the Inaugural Lecture entitled "Proteomics to Nanoproteomics" as Chief



Guest at Botanical Society, Deshbandhu College, University of Delhi on 11th February 2022.

Ratul Baishya (2022)

Delivered a lecture on “Territorial ecosystems (Carbon sequestration, Quantification of carbon sequestered in terrestrial biomass)” in Green Skill Development Programme, GSDP Course On Valuation of Ecosystem Goods & Services, conducted by School of Planning and Architecture, Delhi, sponsored by MOEFCC, Govt. of India. March 12, 2022.

Delivered a lecture on “Study of field Ecology: Terrestrial (Vegetation sampling, carbon estimation, floral and faunal diversity)” in Green Skill Development Programme, GSDP Course On Valuation of Ecosystem Goods & Services, conducted by School of Planning and Architecture, Delhi, sponsored by MOEFCC, Govt. of India. March 12, 2022.

Sandip Das (2022)

Comparative Genomics and Functional Analysis of Master Regulators: Leveraging (Bio)Informatics, Omics and Biology Of Model And Crop Plants For Trait Modification. In: 'Fragrance'- The Botanical Society, Department of Botany, Shivaji College, January 25, 2022.

Yashwanti Mudgil (2022) attended GATI Phase 1,2 & Phase 3 virtual session on “Data collection and analysis” on 17th March, 2022.

Renu Deswal (2021). Invited lecture as chief guest on “Roles and rules of ICC” organized by Lady Irwin College, University of Delhi.

Rupam Kapoor (2021)

Delivered a lecture on “Understanding Mucormycosis and its relevance during COVID-19” organised by “Medini”, The Botanical Society, Kirori Mal College cordially invites you for a lecture on 22 June 2021.

Delivered a talk on "Deciphering Mucormycosis and Its Post COVID Surge" organised by Department of Botany and IQAC of Zakir Husain Delhi College, University of Delhi on 18th June 2021.

Delivered a talk in National Webinar on “Black fungus disease (Mucoromyces) amid COVID

19 Pandemic” organised by Rajiv Gandhi University Arunachal Pradesh on 14th June 2021.

Delivered a lecture on “Understanding Mucormycosis and its relevance during COVID-19” in Valedictory Ceremony of “Involucre” Sri Venkateswara College Lecture on 4th June 2021.

Arun Jagannath (2021) Invited lecture on Science, Technology and Education – The Way Forward, Government Degree College, Kokernag, Anantnag, Jammu and Kashmir.

Sandip Das (2021) Master Regulators of Development and Adaptation: Leveraging Genomics Information for Devising Crop Improvement Strategies. In: “Prakriti”, The Botanical Society, Department Of Botany, Dyal Singh College, October 26, 2021

Ratul Baishya (2021)

Delivered a lecture on “Life Sciences: Common hazards and knowhow on Laboratory safety protocols” in Online Training for Technical Staff, Organized by University of Delhi, September 6-10 2021. Presented on September 8, 2021.

Delivered a lecture on “Carbon Sequestration and Auditing: Methods, Scope and Prospects” in Online Faculty Development Program on “Environmental Audit. Organised by DBT Star College Scheme, Kirori Mal College, University of Delhi, July 1, 2021.

Delivered a lecture on “Linking Ecosystem services with sustainable development” in National Webinar on Linking Ecosystem Services with Sustainable Development. Organized by Department of Botany, University of Science and Technology, Meghalaya, India, June 30, 2021.

Faculty Strength

18

Number of Ph.D. Degrees Awarded

19

Number of M.Phil. Degrees Awarded

04



Department of Chemistry

Brief History

Chemistry teaching in the University started in 1922 with three constituent colleges namely St. Stephens, Hindu and Ramjas. The Chemistry teaching was confined to a two year course for B.Sc. degree department and the teaching up to I.Sc. Level was conducted in the constituent colleges of the University. In October 1933, the University Offices and library shifted to the Viceregal Lodge Estate and the Chemistry Department made an inconspicuous beginning in the Vice-Regal kitchen which was used for conducting the lectures and practical classes. In 1942, new laboratories and lecture rooms were constructed and visionary faculty members were invited by special efforts of illustrious Vice Chancellor, Sir Maurice Gwyer.

Major Activities and Achievements

Published 5 research articles and was invited as a resource person during the Refresher Course in Biotechnology organized by HRDC, Pt. Ravishankar Shukla University, Raipur.

Publications

Research Articles

Mittal R., & Awasthi S. K. (2022). Bimetallic Oxide Catalyst for the Dehydrogenative Oxidation Reaction of Alcohols: Practical Application in the Synthesis of Value-Added Chemicals. *ACS Sustainable Chemistry & Engineering*, 10(4), 1702-1713.

Yadav D., & Awasthi S. K. (2021). Ni nanoparticle-immobilized imine-linked microspherical covalent organic polymer for degradation studies of organic dyes. *ACS Applied Polymer Materials*, 3(11), 5460-5469.

Yadav P., & Awasthi S. K. (2021). Probing the catalytic activity of highly efficient sulfonic acid fabricated cobalt ferrite magnetic nanoparticles for the clean and scalable synthesis of dihydro, spiro and bis quinazolinones. *New Journal of Chemistry*, 45(35), 15928-15941.

Sharma B., Singh P., Singh A. K., & Awasthi S. K. (2021). Advancement of chimeric hybrid drugs to cure malaria infection: an overview with special emphasis on endoperoxide pharmacophores. *European Journal of Medicinal Chemistry*, 219, 113408.

Mittal R., & Awasthi S. K. (2021). A Synergistic Magnetically Retrievable Inorganic-Organic Hybrid Metal Oxide Catalyst for Scalable Selective Oxidation of Alcohols to Aldehydes and Ketones. *ChemCatChem*, 13(22), 4799-4813.

Seminars/Conferences

R.V. Singh Balram Pani, Vijay Laxmi Saxena, Sandeep Verma, T.P. Singh Naresh Kumar S.K. Pandey, NA, ISCA, Post Covid challenges and opportunities for the chemist, 2021, December 12.

Placement Details

100%

Number of Ph.D. Degrees Awarded

02



Department of Environment Studies

Major Activities and Achievements

The Department is engaged in teaching and research through its two post-graduate courses in Environmental Studies (M.A. in Environmental Studies and M.Sc. in Environmental Studies) and Ph.D. program. Each year, we admit 68 students (M.Sc. 39 and M.A. 29) from varied academic backgrounds across various disciplines through an all-India entrance test conducted by National Testing Agency. The department has seventeen regular faculty members who are involved in teaching and research in fundamental and applied aspects of ecology and environment. The department is actively involved in socially relevant research connected to national development and environmental health, thereby mitigating issues arising from environmental degradation. The faculty has successfully secured extramural research projects over the years, which has helped develop state-of-the-art laboratory facilities and train research scholars leading to publications in top-tier journals such as Nature, Science, and other high-impact journals. The faculty members are recognized globally, widely collaborate with international experts and deliver keynote and plenary lectures of their research findings at National and International Institutions/conferences.

Honours/Distinctions

Prof. Inderjit Singh has been elected Fellow of Indian National Science Academy (FNA, INSA), New Delhi India, effective from 01st January 2022.

Dr. Bharat G has been awarded CSIR-Technology award by CSIR on 26th September 2021 for developing high rate biomethanation technology.

Prof. Inerjit Singh has been elected Fellow of Indian National Science Academy (FNA, INSA), New Delhi India, effective from 01st January 2022.

Dr. Bharat G has been awarded CSIR-Technology award by CSIR on 26th September

2021 for developing high rate biomethanation technology.

Publications

Research Articles

Sarkar N., Sharma R. S., & Kaushik M. (2021). Innovative application of facile single pot green synthesized CuO and CuO@ APTES nanoparticles in nanopriming of Vigna radiata seeds. *Environmental Science and Pollution Research*, 28(11), 13221-13228.

Bhattacharyya N., Gupta, S., Sharma S., Soni A., Bagabir S. A., Bhattacharyya M., & Malik M. Z. (2022). CDK1 and HSP90AA1 appear as the novel regulatory genes in non-small cell lung cancer: a bioinformatics approach. *Journal of personalized medicine*, 12(3), 393.

Blotto B. L., Biju S. D., Pereyra M. O., Araujo-Vieira K., Faivovich J., & Grant T. (2022). Hand and foot musculature of Sooglossoidea: synapomorphies, convergences and hind limb digging behaviour in anurans. *Biological Journal of the Linnean Society*, 135(2), 336-393.

Dashora M., Kumar A., Kumar S., Kumar P., Kumar A., & Singh C. K. (2022). Geochemical assessment of groundwater in a desertic region of India using chemometric analysis and entropy water quality index (EWQI). *Natural Hazards*, 112(1), 747-782.

Garg S., Kumar P., Greene G. W., Mishra, V., Avisar D., Sharma R. S., & Dumée, L. F. (2022). Nano-enabled sensing of per-/poly-fluoroalkyl substances (PFAS) from aqueous systems—A review. *Journal of Environmental Management*, 308, 114655.

Garg S., Chandrakasan S., Gokulakrishnan G., Gopika C., Das I., & Biju S. D. (2022). The curious case of Charles Darwin's frog, *Rana charlesdarwini* Das 1998: Phylogenetic position and generic placement, with taxonomic insights on other minervaryan frogs (Dicroglossidae: Minervarya) in the Andaman and Nicobar Archipelago. *Vertebrate Zoology*, 72, 169-199.



Garg S., Sivaperuman C., Gokulakrishnan G., Chandramouli S. R., & Biju S. D. (2022). Hiding in plain sight: rain water puddles in Nicobar Islands of India reveal abundance of a new frog species of the genus *Microhyla Tschudi, 1838* (Anura: Microhylidae). *Zoological studies, 60*.

Callaway R. M., & Meron E. (2022). Vegetation patterning and biodiversity of plant communities. Reply to comments on "Belowground feedbacks as drivers of spatial self-organization and community assembly". *Physics of Life Reviews, 42*, 29-32.

Kumar P., Mishra, V., Yadav S., Yadav A., Garg S., Poria P., & Sharma R. S. (2022). Heavy metal pollution and risks in a highly polluted and populated Indian river–city pair using the systems approach. *Environmental Science and Pollution Research, 1-20*.

Mishra, V., Mishra, R., & Shamra R. S. (2022). Ribosome inactivating proteins—An unfathomed biomolecule for developing multi-stress tolerant transgenic plants. *International Journal of Biological Macromolecules*.

Sharma A. K., Kumar R., Saini N. K., Ghosh C., Dey S., & Balyan P. (2022). Spatial Epidemiology of COPD in Delhi, India. *Annals of the National Academy of Medical Sciences (India)*.

Sharma S., Malhotra, L., Yadav P., Mishra, V., Sharma R. S., & Samath E. A. (2022). Genistein: A novel inhibitor of IL-6/IL-6R interface of the Interleukin-6–mediated STAT3 dependent pathway of carcinogenesis. *Journal of Molecular Structure, 1258*, 132668.

Yadav A., Kumar P., Rawat D., Garg S., Mukherjee P., Farooqi F., ... & Mishra, V. (2022). Microbial fuel cells for mineralization and decolorization of azo dyes: Recent advances in design and materials. *Science of The Total Environment, 154038*.

Lazra Y., Gandu B., Amar I. D., Emanuel E., & Cahan R. (2021). Effects of Atmospheric Plasma Corona Discharge on *Agrobacterium*

tumefaciens Survival. *Microorganisms, 10*(1), 32.

Barhadiya G., & Ghosh C. (2021). Snakes of urban Delhi, India: An updated annotated checklist with eight new geographical records. *Reptiles & Amphibians, 28*(1), 1-7.

Barhadiya G., Ghosh C., & Singh S. (2021). Invasive Red-eared Sliders, *Trachemys scripta elegans* (Weid 1838), in urban wetlands of Delhi, India. *Reptiles & Amphibians, 28*(1), 15-17.

Bisht K., Garg S., Sarmah A., SenGupta, S., & Biju S. D. (2021). Lost, forgotten, and overlooked: systematic reassessment of two lesser-known toad species (Anura, Bufonidae) from Peninsular India and another wide-ranging northern species. *Zoosystematics and Evolution, 97*, 451.

Chen W. R., Singh A., Pani S. K., Chang S. Y., Chou C. C. K., Chang S. C., ... & Lee C. T. (2021). Real-time measurements of PM_{2.5} water-soluble inorganic ions at a high-altitude mountain site in the western North Pacific: Impact of upslope wind and long-range transported biomass-burning smoke. *Atmospheric Research, 260*, 105686.

Eprilurahman R., Garg S., Atmaja V. Y., Alhadi F., Munir M., Ubaidillah R. O. S. I. C. H. O. N., ... & Hamidy A. M. I. R. (2021). A tiny new species of *Microhyla Tschudi, 1838* (Amphibia: Anura: Microhylidae) from Belitung Island and Southeastern Sumatra, Indonesia. *Zootaxa, 5027*(4), 451-488.

Eprilurahman R., Garg S., Atmaja V. Y., Alhadi F., Munir M., Ubaidillah R. O. S. I. C. H. O. N., & Hamidy, A. M. I. R. (2021). A tiny new species of *Microhyla Tschudi, 1838* (Amphibia: Anura: Microhylidae) from Belitung Island and Southeastern Sumatra, Indonesia. *Zootaxa, 5027*(4), 451-488.

Garg S., Wang J., Kumar P., Mishra, V., Arafat H., Sharma R. S., & Dumée L. F. (2021). Remediation of water from per-/poly-fluoroalkyl substances (PFAS)—Challenges and



perspectives. *Journal of Environmental Chemical Engineering*, 9(4), 105784.

Garg S., & Biju S. D. (2021). DNA Barcoding and Systematic Review of Minervaryan Frogs (Dicroglossidae: Minervaryd) of Peninsular India: Resolution of a Taxonomic Conundrum with Description of a New Species. *Asian Herpetological Research*, 12(4), 345-378.

Garg S., Suyesh R., Das S., Bee M. A., & Biju S. D. (2021). An integrative approach to infer systematic relationships and define species groups in the shrub frog genus Raorchestes, with description of five new species from the Western Ghats, India. *PeerJ*, 9, e10791.

Kotnala G., Kumar M., Sharma A. K., Dhaka S. K., Gadi, R., Ghosh, C., ... & Mandal T. K. (2021). Variations in chemical composition of aerosol during Diwali over mega city Delhi, India. *Urban Climate*, 40, 100991.

Simberloff D., Kaur H., Kalisz, S., & Bezemer T. M. (2021). Novel chemicals engender myriad invasion mechanisms. *New Phytologist*, 232(3), 1184-1200.

Callaway R. M., & Meron E. (2021). Belowground feedbacks as drivers of spatial self-organization and community assembly. *Physics of Life Reviews*, 38, 1-24.

Yakkala K., Chappa S., Rathod P. B., Gurijala R. N., & Pandey, A. K. (2021). Silver nanoparticles embedded cation-exchange membrane for remediation of Hg species and application as the dip catalyst in organic transformation. *Materials Today Chemistry*, 22, 100547.

Patel N. G., Garg S., Das A., Stuart B. L., & Biju S. D. (2021). Phylogenetic position of the poorly known montane cascade frog *Amolops monticola* (Ranidae) and description of a new closely related species from Northeast India. *Journal of Natural History*, 55(21-22), 1403-1440.

Rastogi N., Satish R., Singh A., Kumar V., Thamban N., Lalchandani V., ... & Prevot A. S. (2021). Diurnal variability in the spectral

characteristics and sources of water-soluble brown carbon aerosols over Delhi. *Science of The Total Environment*, 794, 148589.

Ray A. K., Luis P. B., Mishra, S. K., Barry D. P., Asim, M., Pandey, A., ... & Chaturvedi, R. (2021). Curcumin Oxidation Is Required for Inhibition of *Helicobacter pylori* Growth, Translocation and Phosphorylation of Cag A. *Frontiers in cellular and infection microbiology*, 1304.

Ray, A. K., Luis, P. B., Mishra, S. K., Barry, D. P., Asim, M., Pandey, A., ... & Chaturvedi, R. (2021). The role of gut microbiome in cardiometabolic disease. *Archives of General Internal Medicine*, 5(7).

Rozenfeld S., Gandu B., Hirsch L. O., Dubrovin I., Schechter A., & Cahan R. (2021). Hydrogen production in a semi-single-chamber microbial electrolysis cell based on anode encapsulated in a dialysis bag. *International Journal of Energy Research*, 45(13), 19074-19088.

Sarkar N., Sharma R. S., & Kaushik M. (2021). Innovative application of facile single pot green synthesized CuO and CuO@ APTES nanoparticles in nanopriming of *Vigna radiata* seeds. *Environmental Science and Pollution Research*, 28(11), 13221-13228.

Books/Chapter in Books

Singh A., & Rastogi N. (2022). Airborne Particles in Indoor and Outdoor Environments. In *Airborne Particulate Matter* (pp. 47-73). Springer, Singapore.

Garg M., Nayak P., Singh A. K., & Ray A. K. (2022). Inbreeding and Genetic Load and Role of Ecogenomics in Landscape Genetic Restoration. In *Plant Ecogenomics* (pp. 215-229). Apple Academic Press.

Gandu B., Rao A. G., & Cahan R. (2021). Air pollution control by using different types of techniques and sorbents. *Sorbents Materials for Controlling Environmental Pollution*, 575-594.



Kumar A., Sappal S. M., & Ramanathan A. L. (2022). Phosphorus Availability and Speciation in the Intertidal Sediments of Sundarbans Mangrove Ecosystem of India and Bangladesh. In *Coastal Ecosystems* (pp. 67-89). Springer, Cham.

Singh A., & Rastogi N. (2022). Airborne Particles in Indoor and Outdoor Environments. In *Airborne Particulate Matter* (pp. 47-73). Springer, Singapore.

Research Projects

Institution of Eminence, University of Delhi, 2021-22, Hydrogeochemical investigation to infer evolutionary pathway of playas in Rajasthan (Dr. Alok Kumar), 3.0.

Ministry of Environment, Forests & Climate Change, Govt. of India, 2016-2021, Advanced Training in Biosystematics (Prof. R.S. Sharma), 48.

Institution of Eminence, University of Delhi, 2021-2022, Interaction patterns between spatially distributed soil bacteria and viruses and its ecological significance (Prof. R.S. Sharma), 3.0.

Department of Science & Technology, Government of India, 2019-2022, Development of a novel single-stage bioremediation technology for azo dye and aromatic amines for industrial sustainability and environmental safety (Prof. Vandana Mishra,), 41.

Institution of Eminence, University of Delhi, 2021-2022, Interaction patterns between spatially distributed soil bacteria and viruses and its ecological significance (Prof. Vandana Mishra,), 3.0.

Department of Science & Technology, Government of India, 2021-2023, Raising Awareness on Urban Air Quality, Climate Change, Health and e-resilience (50894) under "Science, Technology, Engineering, Mathematics, Medicine (STEMM) –India Initiative" (Bharat Vigyan Darshan)" (Prof. Chirashree Ghosh), 29.23650.

Institution of Eminence, University of Delhi, 2021-2022, Snakes in the city: Spatial and temporal assessment of snake encounters in the diverse urban ecosystem of Delhi, India (Prof. Chirashree Ghosh), 3.0.

Institution of Eminence, University of Delhi, 2021-2022, Understanding the role of soil microbiome in shaping human gut microbiota (Dr. Ashwini Kumar Ray), 3.0.

Institution of Eminence, University of Delhi, 2021-2022, Design and operating strategies for the abatement of organic (Ethanethiol) gaseous pollutants through biofilters (Dr. Bharat G), 3.0.

Institution of Eminence, University of Delhi, 2021-2022, Hydrogeochemical investigation to infer evolutionary pathway of playas in Rajasthan (Dr. Alok Kumar), 3.0.

Seminar/Conference Presentations (National/International)

Plenary lecture

International:

Chirashree Ghosh (2021). "International Conference on COVID-19, Pandemic & its impact on Environment, organised by MAKAUT, West Bengal & Gurukul management studies, Kolkata, 2021, May 24.

National:

Inderjit Singh (2022). Novel chemicals mediate invasion success of exotic species", Mitigating contemporary environmental issues by sustainable approaches, Acharya Narender Dev College, University of Delhi, 2022, February, 22.

Chirashree Ghosh (2022). Keynote address as a resource person on the occasion of International Women Day, organised by Dept of Stri Raga and Prasuti Tantra, All India Institute of Ayurveda, New Delhi, 2022, March 08.

Chirashree Ghosh (2022), GURU DAKSHATA: 3 'Redefining, Rejuvenating and reskilling: education and Research for sustainable



Development’ at National Institute of Disaster Management, 2022, February 28.

Radhey Shyam Sharma (2022). Ecological Entrepreneurship for Innovation and Sustainable Development".10th International Conference on Technology, Innovation and Management for Sustainable Development-2022, School of Sciences, ITM University Gwalior, 2022, March 25-26.

Radhey Shyam Sharma (2022). Tools and Rules of Ecosystem Services-Based Entrepreneurship for Sustainable Health and Wealth, Under GSDP Course on "Valuation of Ecosystem Services and Green GDP", School of Planning and Architecture-Environmental Information System Network, Skill India Mission, Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India, New Delhi, 2022, March 17.

Urfi, A. J. (2021). ‘Webinar: Release of Bird Diversity Census Report & Talk by Prof. Urfi (Importance of Bird studies in conservation’. Organized by Department of Environmental Studies & Department of Earth Studies, Indraprastha College for Women, University of Delhi, 2021, July 08.

Radhey Shyam Sharma (2021). Ecological Entrepreneurship for Shaping the Earth for Peace, Progress and Prosperity, Kalindi College, University of Delhi, Delhi, 30th June 2021, June 30.

Radhey Shyam Sharma (2021). Rules and Tools of Next-Generation Ecosystem Restoration Practices. Lecture Series, Department of Environmental Science, Gandhi Institute of Technology and Management, Visakhapatnam, 2021, June 04.

Vandana Mishra, (2021). “Sustainability of Textile Industry - Multidisciplinary Perspective” Faculty Development Program on Environmental Audit under National Mission on Teachers and Training, Mizoram University, and Kirori Mal College, University of Delhi, 28th June - 2nd July, 2021.

Vandana Mishra, (2021). Hidden Challenges of Fast Fashion and Nature-Based Solutions for Environmental Justice, Maiteryi College, University of Delhi, 2021, July 17.

Vandana Mishra, (2021). Fashion Justice & its Relevance for Sustainability, Climate Change, & Conservation, Shyama Prasad Mukherji College (for women), University of Delhi under ‘Atma Nirbhar Bharat’ (Self Reliant India) Programme, 2021, September 22.

Vandana Mishra, (2021). Restoring Ecosystems and Human Health via Industrial Sustainability, Multanimal Modi College, Modinagar, Uttar Pradesh, 2021, June 06.

Vandana Mishra, (2021). Restoration of Biological Diversity: A Journey Towards Sustainable Development, Aditi Mahavidyalya, University of Delhi, 2021, June 05.

Chirashree Ghosh (2021), National Pollution Day under the theme Air Pollution as a silent Killer at Amity University, Noida, Uttar Pradesh, 2021, December 02.

Chirashree Ghosh (2021), One-week Interdisciplinary Faculty Development program (online) on “Waste management during pandemic & its impact on Circular Economy”, in collaboration with Department of Chemistry & Commerce at Mahatma Hansraj faculty Development Centre, Hansraj College, University of Delhi, 2021, November 22.

Chirashree Ghosh (2021). Two-week refreshment courses in Environment studies on 21st Century Environmental issues, Challenges & solutions, at Ministry of Education funded Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, Teaching learning Centre, Ramanujan College, University of Delhi, 2021, July 15.

Chirashree Ghosh (2021). Popular lecture series organized by Department of Chemistry, GGSDS College, Chandigarh, 2021, June 12.



Chirashree Ghosh (2021). Special lecture to celebrate World Environment Day –at National Centre for Seismology, Ministry of Earth Sciences, Delhi, 2021, June 05.

Chirashree Ghosh (2021). Advances in Teaching and research in the field of green technology and UN sustainable development goals under GURU DAKSHTA – FDP program” organized by Academic Amity staff college, Amity University, Delhi, 2021, June 05.

Chirashree Ghosh (2021). Impact of Environmental Pollution on Public Health, organized by MGICC, Govt. of Delhi, 2021, June 03.

Chirashree Ghosh (2021). Distinguished lecture series by Bhagat Singh College, University of Delhi, 2021, April 06.

Dr. Ashwini Kumar Ray (2021). “Research article writing and interaction with Biochemistry students” on in Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, 2021, April 28.

Dr. Ashwini Kumar Ray (2021). Environmental issues and ethics, Earth day, Bhaskaracharya College of Applied Sciences, University of Delhi, 2021, June 05.

Dr. Ashwini Kumar Ray (2021). Two-day Bioinformatics workshop for the students of the Department of Biochemistry, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, 2021, July 02-03.

Attended/Participation:

Bharath G (2021). AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Bioconversion Technologies and Start-up Opportunities in Biofuels Production" at Silver Jubilee Government College, A.P, 14th – 18th June, 2021.

Bharath G (2021). “Environmental Restoration and Circular Economy” using virtual platform Organized by International Society of Waste Management Air and Water (ISWMAW), India,

The pre-event of 11th IconSWM-CE & IPLA Global Forum 2021, 5th and 12th June 2021.

Dr. Ashwini Kumar Ray (2021). R Discovery Global Symposium on Literature Search by Cactus Communication India, 28th May 2021.

Dr. Ashwini Kumar Ray (2021). Webinar on Ecosystem Restoration for Environmental sustainability held by AAJ and School of Environmental Sciences, JNU, New Delhi, India, 4th June 2021.

Other Inter-Institutional Collaborations

Ph.D. scholar Ms. Guncha Sharma working on her Ph.D. thesis in institutional collaboration with the Indian Agricultural Research Institute (IARI), PUSA, New Delhi.

Ph.D. scholar Ms. Pooja Saroj is working in institutional collaboration with Indian Meteorological Department (IMD), Govt. of India.

Dr. Ashwini Kumar Ray has scientific collaboration with Prof. Rupesh Chaturvedi, Host Pathogen interaction/ Infection Biology Lab School of Biotechnology, New Delhi.

Dr. Ashwini Kumar Ray has scientific collaboration with Dr. Ravi Tandon HIV immunology, Gut microbiology, Mucosal immunity and inflammation lab, School of Biotechnology, JNU, New Delhi.

Dr. Ashwini Kumar Ray has scientific collaboration with Dr. Shalimar, Department of Gastroenterology, AIIMS New Delhi.

No. of Students under Exchange Programme

04

Extension and Outreach Activities

Prof. Inderjit is involved in the management of invasive species in Delhi.

Dr. Chirashree Ghosh organized Workshop on Raising Awareness on Urban Air Quality, Climate Change, Health and e-resilience at Burari, Laxmi Vihar, by Environmental Pollution Laboratory, Department of Environmental Studies, DU, sponsored by Ministry of Earth Sciences, Department of



Science and Technology (DST), (GoI), No. of participants- 200; 27th March, 2022.

Dr. Chirashree Ghosh jointly organized face to face training program with NIDM on “Understanding the vulnerability and Risk associated with urban areas” at Miranda House, University of Delhi, Sponsored by NIDM (National Institute of Disaster Management), No. of participants-200; 23rd - 27th November 2021.

Dr. Ashwini Kumar Ray held an interactive session with students of Arunachal Pradesh, India organised by Arunachal Vikas Parishad, Arunachal Pradesh, 20th June 2021.

Faculty Strength

17

Number of Ph.D. Degrees Awarded

01

Other Significant Information

Gaurav Barhadiya, Chirashree Ghosh, Shailendra Singh. Black soft-shell turtle: Extinct or Existing? Won First Prize at National Level Online PPT competition (Topic: Threatened Animals of India) held on 6th October 2021, organized by ENVIS Centre on Biodiversity (Fauna) Zoological Survey of India, Kolkata, India.

Dr. Bharath G worked as Guest Editor for the journal “Microorganisms” (IF 4.128), preparing a Special Issue entitled “Microbial Fuel Cell and Microbial Electrolysis Cell”.

Department of Geology

Major Activities and Achievements

Apart from the normal teaching activities, the department has awarded 8 Ph.D. degrees. 34 research papers have been published in peer-reviewed journals and books and 2 books have been edited. A total of 13 funds worth Rs. 4.3 crores have been received from different Govt. and private agencies. 23 presentations have been done by the students and faculties at several national and international conferences. The faculties have received many international and national awards, elected to distinguished posts in various academic and administrative committees, served as reviewers/ editors of peer-reviewed journals, delivered invited lectures, and acted as resource persons in workshops. The department has also organized one national seminar attended by 80 plus delegates.

Honours/Distinctions

Prof. G. V. R. Prasad

Awarded Fulbright-Nehru Academic & Professional Excellence Fellowship for six months to undertake research at the University of Chicago, Chicago, USA.

Awarded Sepkoski Grant 2020 by the Paleontological Society, McLean, USA.

Prof. Anupam Chattopadhyay

Member, Governing Body, and Member, Finance Committee of the Wadia Institute of Himalayan Geology, Dehradun.

Expert Member, SERB-IRHPA Committee for promoting research in high-priority areas of Earth and Atmospheric Sciences.

Dr. Ashutosh K Singh

Elected Executive Council Member of the Paleontological Society of India, Lucknow.

Prof. Devesh K Sinha

Director (Hon), Delhi School of Climate Change and Sustainability (DSCCS) Institution of Eminence (IoE), University of Delhi. Delivered Colloquium at the "Physical Research Laboratory" Member – SERB DST Committee on Start-up Grant and NPDF Member, Research Advisory Committee, Wadia Institute of Himalaya Geology, Dehra Dun, Member, Board of Studies in Earth Sciences, Pondichery University, Puducherry Member, Board of Studies in Geology, Cluster University of Jammu Member- Travel Grant and Symposium Grant Committee (TGCM) of the CSIR (TGSM)



Prof. N. C. Pant
Deputy Chief Officer, Geosciences Group of the
Scientific Committee on Antarctic Research
(SCAR) (2017-2020).
Chairman, INSA Committee on SCAR.
Member, Research Advisory Committee,
National Centre for Polar and Ocean Research,
Goa.

Publications

Research Articles

Dhiman H., Dutta S., Kumar S., Verma V., &
Prasad, G. V. (2021). Discovery of
proteinaceous moieties in Late Cretaceous
dinosaur eggshell. *Palaeontology*, 64(5), 585-
595.

Kshetrimayum D. S., Parmar V., Lourembam R.
S., & Prasad G. V. (2021). A diversified
Ostracoda (Crustacea) assemblage from the
Upper Cretaceous intertrappean beds of Gujri,
Dhar District, Madhya Pradesh, India.
Cretaceous Research, 124, 104784.

Prasad G. V., Verma O., Sahni A., & Khosla A.
(2021). Cretaceous mammals of India—
Stratigraphic distribution, diversity and
intercontinental affinities. *Journal of
Palaeosciences*, 70, 173-192.

Choudhury S. R., Dey A., Brandt S., Sanyal S., &
SenGupta, P. (2021). Petrology and
geochronology of a suite of meta-supracrustal
rocks from Madukkarai, Tamil Nadu:
Implications for the Ediacaran-Cambrian
orogenesis of the Granulite Terrane of South
India. *Lithos*, 400, 106347.

Sharma S., Gupta, M., & Sahai A. K. (2021).
Assessing implications of irrigation scheme in
NASA-Land Information System Framework on
land surface fluxes in Punjab, India. *Geocarto
International*, 1-22.

Kaushik T., Singh A. K., & Sinha D. K. (2020).
Late Neogene–Quaternary Planktic
Foraminiferal Biostratigraphy and
Biochronology from ODP Site 807A, Ontong
Java Plateau, Western Equatorial Pacific.
Journal of Foraminiferal Research, 50(2), 111-
127.

Singh A. K., & Sinha D. K. (2021). Northward
Migration of Antarctic Polar Front during the
Quaternary: Planktic Foraminiferal Record
from Southeast Indian Ocean. *Journal of
Climate Change*, 7(1), 13-24.

Srivastava P. K., Pradhan R. K., Petropoulos G.
P., Pandey, V., Gupta, M., Yaduvanshi, A., &
Sahai, A. K. (2021). Long-term trend analysis of
precipitation and extreme events over Kosi
river basin in India. *Water*, 13(12), 1695.

Sharma J. J., Pant N. C., Singh P., & Saikia A.
(2022). Crystallographic Controls on Staurolite
to Fibrolite Transformation: Petrographic
Evidence from the Pangong Metamorphic
Complex in Eastern Karakoram, Ladakh, India.
Journal of the Geological Society of India, 98(6),
749-752.

Gupta, R., Pandey, M., Arora D., Pant N. C., &
Rao N. C. (2022). Evincing the presence of a
trans-Gondwanian mobile belt in the interior
of the Princess Elizabeth Land, East Antarctica:
insights from offshore detrital sediments, rock
fragments, and monazite geochronology.
Geological Journal, 57(7), 2581-2607.

Naik A., Pant N. C., Sharma J. J., Bhandari A., &
Sorcar, N. (2022). Metamorphic evolution of
the North Delhi Fold Belt, implications on Delhi
orogeny and the Rodinia connection.
Geological Journal.

Sorcar N., Mukherjee S., Pant N. C., Dev J. A., &
Nishanth N. (2021). Chemical dating of
monazite: Testing of analytical protocol for U–
Th–total Pb using CAMECA SXFive tactis EPMA
at the National Centre for Earth Science
Studies, Thiruvananthapuram, India. *Journal of
Earth System Science*, 130(4), 1-11.

Pandey, M., Pant N. C., Arora D., & Gupta, R.
(2021). A review of Antarctic ice sheet
fluctuations records during Cenozoic and its
cause and effect relation with the climatic
conditions. *Polar Science*, 30, 100720.

Alok A., Pant N. C., Das K., Tsutsumi Y., Petrie
C. A., Kumar P., ... & Khan A. A. (2022). New
insights into the geological evolution of



palaeorivers and their relationship to the Indus Civilization and Early Historic settlements on the plains of Haryana, NW India. *Geological Society, London, Special Publications*, 515(1), SP515-2020.

Singh A. K., & Chakraborty P. P. (2021). Geochemistry and hydrocarbon source rock potential of shales from the Palaeo-Mesoproterozoic Vindhyan Supergroup, central India. *Energy Geoscience*.

Kumar P., Shekhar S., Shukla A., & Chakraborty P. P. (2021). Facies architecture and spatio-temporal depositional variability in the Pliocene Sandhan fluvial system, Kutch Basin, India. *Journal of Earth System Science*, 130(4), 1-23.

Paul P. P., & Chakraborty P. P. (2022). Mixed-diurnal tidal record from a Palaeoproterozoic embayment in the Par Formation, Gwalior Group, Central India. *Geological Journal*, 57(3), 1172-1185.

Kumar P., Shekhar S., Shukla A., & Chakraborty, P. P. (2021). Facies architecture and spatio-temporal depositional variability in the Pliocene Sandhan fluvial system, Kutch Basin, India. *Journal of Earth System Science*, 130(4), 1-23.

Ghosh R. (2022). An overview of ore genesis in the Singhbhum Craton, Eastern India. *Earth-Science Reviews*, 226, 103933.

Ali S., Shekhar S., Chandrasekhar T., Yadav A. K., Arora N. K., Kashyap C. A., & Chandrasekharam, D. (2021). Influence of the water-sediment interaction on the major ions chemistry and fluoride pollution in groundwater of the Older Alluvial Plains of Delhi, India. *Journal of Earth System Science*, 130(2), 1-16.

Joshi S. K., Gupta, S., Sinha R., Densmore A. L., Rai S. P., Shekhar S., ... & van Dijk W. M. (2021). Strongly heterogeneous patterns of groundwater depletion in Northwestern India. *Journal of hydrology*, 598, 126492.

Kumar P., Dubey C. S., Kumar O., Shekhar S., Shukla D. P., & Ramanathan A. L. (2021). Deciphering the role of meteorological parameters controlling the sediment load and water discharge in the Sutlej basin, Western Himalaya. *Journal of Environmental Management*, 298, 113413.

Chowdhury P., Mulder J. A., Cawood P. A., Bhattacharjee S., Roy, S., Wainwright, A. N., & Mukherjee, S. (2021). Magmatic thickening of crust in non-plate tectonic settings initiated the subaerial rise of Earth's first continents 3.3 to 3.2 billion years ago. *Proceedings of the National Academy of Sciences*, 118(46), e2105746118.

Chakraborty A., Karmakar S., Mukherjee S., Choudhury S. R., Maiti P., Sanyal S., & SenGupta, P. (2022). Neoproterozoic reworking of a Mesoproterozoic magmatic arc from the north-eastern part of the Central Indian Tectonic Zone: Implication for the growth and disintegration of the Indian shield in the Proterozoic supercontinental cycles. *Precambrian Research*, 378, 106758.

Roy D. B., Tandon S. K., & Singh V. (2021). Drainage evolution in a Holocene landscape that hosted a 'lost river' system in the Punjab-Haryana plains, NW India. *Quaternary International*, 585, 99-110.

Devrani R., Singh V., Mehta M., & Ramanathan, A. L. (2021). Assessing sediment pulse during an extreme hydrological event in the Alaknanda Basin, Northwestern Himalaya, India. *Journal of the Geological Society of India*, 97(1), 48-54.

Saikia A., Kiso E., Næraa T., Akhtar S., & Negi P. (2022). Trace element constraints on the parental melt of gabbroic cumulates from the Naga Ophiolite Complex, North-East India. *International Journal of Earth Sciences*, 111(3), 1009-1032.

Kumar R., Ahmad T., & Saikia A. (2022). P-T estimates for the fractionated and primary melt of tholeiitic dykes from Multai area of



Deccan flood basalt, Madhya Pradesh (India). *Journal of Earth System Science*, 131(2), 1-22.

Sharma J. J., Pant, N. C., Singh P., & Saikia, A. (2022). Crystallographic Controls on Staurolite to Fibrolite Transformation: Petrographic Evidence from the Pangong Metamorphic Complex in Eastern Karakoram, Ladakh, India. *Journal of the Geological Society of India*, 98(6), 749-752.

Saikia A., Akhtar S., & Negi P. (2022). Role of fractional crystallization and partial melting in the generation of intermediate and acidic magmas of the Andaman Island Ophiolite suite of India. *Geological Journal*, 57(2), 906-924.

Books/Chapter in Books

Ali S., Shekhar S., & Chandrasekhar T. (2022). Non-carcinogenic health risk assessment of fluoride in groundwater of the River Yamuna flood plain, Delhi, India. In *Computers in Earth and Environmental Sciences* (pp. 455-466). Elsevier.

Khan A. A., Pant N. C., Joshi R., & Devara P. C. (2022). Chemical and isotopic variability of Bhagirathi river water (Upper Ganga), Uttarakhand, India. In *Ecological Significance of River Ecosystems* (pp. 133-146). Elsevier.

Singh A. K., Sinha D. K., Mallick K., Singh V. P., Shrivastava A., & Kaushik, T. (2021). Ocean circulation in high northern latitudes and its influence on Arctic climate through the ages. In *Understanding Present and Past Arctic Environments* (pp. 79-116). Elsevier.

Singh A. K., Sinha D. K., Pratap Singh V., Mallick K., Shrivastava A., & Kaushik T. (2022). Cenozoic Evolution of Antarctic Ice Sheet, Circum Antarctic Circulation and Antarctic Climate: Evidence from Marine Sedimentary Records. In *Assessing the Antarctic Environment from a Climate Change Perspective* (pp. 47-71). Springer, Cham.

Prasad G. V., & Patnaik R. (Eds.). (2020). *Biological Consequences of Plate Tectonics: New Perspectives on Post-Gondwana Break-up: a Tribute to Ashok Sahni*. Springer International Publishing.

Sinha D. K., & Singh A. K. (2021). Foraminiferal micropaleontology for understanding Earth's history.

Research Projects

IoE FRP grant, University of Delhi, 2021-22, On the magmatic and metamorphic evolution of multi-layer corona-bearing meta-gabbros from the Western Dharwar craton, India, Rs. 3,00,000/-

SERB startup grant, DST, 2021-2023, Constraining the pressure-temperature-fluid composition and timing of deep crustal metasomatism, preserved in the Southern Granulite Terrane, India, Rs. 25,50,000/-

Ministry of Earth Sciences (MoES), 2020-2023, Late Neogene-Quaternary Multi-Proxy Records of El Niño variability: Implications on Tropical Indian Ocean Paleoclimate and Paleooceanography, Rs. 38,00,000/-

RUSA, Ministry of Education, Govt. of India, 2020-2023, Investigating the role of interoceanic exchange on Indian Ocean surface head redistribution and its impact on Indian Monsoon during Quaternary: A multi-proxy approach, Rs. 41,59,000/-

NCPOR, Goa, MoES, Govt. of India, 2018 – 2021, Synergistic utilization of Earth observations with modification of geo-spatial model to improve estimation of snowmelt contribution to discharge.

WAPCOS Limited (A Government of India Undertaking - Ministry of Jal Shakti), 2021, Augmentation of potable water supply by extraction of ground water at Nangloi WTP and adjoining areas, Rs. 5,00,000/- + GST.

The Energy and Resources Institute (TERI), 2019-21, Special Studies for Sustainable Ground Water Management and Ground Water Auditing in Stressed Urban Area of Lucknow under UPWSRP – Phase II, Rs. 10,05,000/- (All inclusive).

Ministry of Earth Science (MOES), Govt. of India, 2018-2022, Development of a predictive



geomorphic model as a tool for sustainable river management, Rs. 25,36,800/-

DST-INSPIRE, 2020-2025, Zircon and monazite as proxies for the crustal evolution: applications to parts of the Proterozoic mobile belts of India, Rs. 35,00,000/-

Ministry of Earth Sciences, 2021-24, Pranmati Basin, Himalaya Critical Zone Observatory, Rs. 5,34,00,00/- (DU component – Rs. 2,42,00,000/-)

Institute of Eminence, University of Delhi, 2021-22, Investigate the impact of dam/barrages on the discharge of the Yamuna River around Delhi, Rs. 3,00,000/-

Institute of Eminence, University of Delhi, 2021-22, Petrogenesis of mafic-ultramafic complex exposed in Gaya and Aurangabad district of Bihar Chotanagpur Granite Gneiss Complex., Rs. 3,00,000/-

Ministry of Earth Sciences, 2019-2022, Age constraints on metamorphic evolution of the Trans Himalayas.

Seminars/Conferences

Dr. Pramod Kumar Rahul Dixit, Prof. Shashank Sekhar, Dr. Ashutosh Kumar Singh Faculty, Department of Geology, Virtual mode, no funding involved, National Seminar on Recent Advances in Geoscience Research in India, 2021, July 02.

Seminar/Conference Presentations (National/International)

Dr. Ashutosh Kumar Singh International Workshop on Advanced Micropaleontology, Department of Geology and Environmental Science, Christ College, Kerala. 2021.

Thomas, J., Gupta, M., 2021. Soil moisture downscaling using vegetation index and land surface temperature over a semi-arid region, in: National Seminar on Recent Advances in Geoscience Research in India, New Delhi, (2021, July 01-02).

Sharma A. and Chakraborty, P.P., 2022. Architecture of a Paleoproterozoic carbonate

platform in an asymmetrical rift setting: Sleemanabad Formation, Mahakoshal basin. National conference on resource potential of the sedimentary basins & 37th convention of Indian association of sedimentologists (IAS-2022). P36.

Kshetrimayum, L. D., Kumar P. RajKumar H. S. 2021: Recognizing Tide-Dominated Delta Succession from Laisong Formation: Manipur, Indo-Myanmar Ranges. National Seminar on Recent Advances in Geoscience Research in India, Delhi University Delhi, Abstract Volume, Page no: 22.

Kumar. P. and Shekhar. S. 2021: Architectural Element Analysis and Lateral Variability in the Braided Fluvial System: Upper Part of the Sandhan Formation. International virtual conference in Geosciences with focus on climate change perspective (ICGCC), Mohanlal Sukhadia University Udaipur, Abstract Volume, Page no: 48.

Rahul Dixit, Gargi Girish Deshmukh, Arvind Kumar Jain and Deepak Chandra Srivastava (2022). Redefining the Main Central Thrust Zone in Uttarakhand Himalaya. Abs. no. 3578-3423, 36th International Geological Congress (Virtual Mode), 2022, March 20-22. New Delhi.

Sarkar, A., and Singh V., (2021). Assessing the sensitivity of small catchments to an extreme event in the North-west Himalayas. EGU General Assembly 2021 (Online); 2021, April 19-30. International; European Geosciences Union.

Negi Priyanka and Ashima Saikia “Comparative study of anorthosite of Barabar Nagarjuni magmatic complex eastern India and the Gruber anorthosite massif of East Antarctica vis- a -vis supercontinent amalgamation” In the national conference on Polar Sciences, 2019, August 20-22.

Sarkar, A., and Singh V. (2021). Identifying potential sources of sediment contribution based of hillslope characterization Hybrid (New Orleans, USA + Online); 2021, December



13-17. (International); American Geophysical Union.

Vinay Kumar and Shashank Shekhar (2021). Urban footprint on groundwater system of Ganga basin: an example of Lucknow city. National Seminar on “Recent Advances in Geoscience Research in India”, 2021, July 1-2 Virtual Mode, organised by Department of Geology, Centre of Advanced Studies, University of Delhi, Delhi-110007.

Other Inter-Institutional Collaborations

Dr. Ashutosh Kumar Singh
National Institute of Oceanography, Goa (Under NIO’s GEOTRACES Programme).
Mohan Lal Sukadiya University, Udaipur (Interoceanic exchange on Indian Ocean surface and its impact on Indian Monsoon during Quaternary).

Dr. Ashima Saikia
Geological Survey of India, Jharkhand Unit.
Cotton University, Guwahati, Assam.
Wadia Institute of Himalayan Geology, Dehradun, India.

Placement Details

06 (GSI, MNCs)

Extension and Outreach Activities

Dr. Anindita Dey
Acted as reviewer of research papers for journals like Journal of Earth System Science, Current Science etc.

Prof. Anupam Chattopadhyay
Acted as reviewer of research papers for major journals like Earth Science Reviews, Geological Journal, Journal of Earth System Science, among others.
Acted as Ph.D. co-supervisor of a Japanese student at Hiroshima University, Japan.
Acted as external Ph.D. examiner for Two students (IIT, Kharagpur and Jadavpur University).

Prof. Devesh K Sinha

Delivered Popular Lecture at Paleontological Society of India (Odisha Chapter).

Prof. Shashank Sekhar
Visiting Faculty Summer Semester 2021-2022, Department of Landscape Architecture, School of Planning and Architecture, New Delhi.

Dr. Pramod Kumar
Faculty Advisor of American Association of Petroleum Geologists (AAPG) Student Chapter, Delhi University started since 2013. More than 150 active student members from the Department of Geology and Ramlal Anand College.

Dr. Ashima Saikia
Acted as a reviewer of research papers for journals like Geological Journal, Canadian Journal of Earth Sciences, Polar Science etc.
Member Advisory Committee, University Science Instrumentation Center, University of Delhi.
Joint secretary, Geological Society of India, Delhi Chapter.
Academic counselor for B.Sc. (Geology), IGNOU, Delhi.
Member Advisory Committee, University Science Instrumentation Center, University of Delhi.
Joint secretary, Geological Society of India, Delhi Chapter.
Academic counselor for B.Sc. (Geology), IGNOU, Delhi.

Guntupalli V. R. Prasad
Member - Editorial Board of the Journal of Palaeosciences; Subject Editor – Current Science.

Prof. N. C. Pant
Visitors nominee to the University Court of Nagaland University (2019-2022).
Expert for earth science program selection for Indian Antarctic Scientific Expedition (2015, 2016, 2017, 2018, 2019, 2021, 2022).
Governing Body member of Kamala Nehru College, University of Delhi.
Member, Management Committee, Gandhi Bhavan, University of Delhi.



Member, Management Committee, University Hostel for Women, University of Delhi.

Member, Advisory Committee, Delhi University Entrance Test (DUET) 2021.

Prof. Shashank Sekhar

Member, Ground Water Consultant Organizations (GWCO) Accreditation Committee, National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI) (01-11-2020 onwards).

Member, Expert Appraisal Committee (EAC) for reviewing the impact assessment reports and hydrogeological reports submitted by project proponents for seeking NOC for ground water abstraction, Central Ground Water Authority (CGWA), Department of Water Resources, RD & GR, Ministry of Jal Shakti, Government of India (09-04-2021 onwards).

Faculty Strength

Professors: 07

Associate Professors: 04

Assistant Professors: 07

Number of Ph.D. Degrees Awarded

08

Other Significant Information

Dr. Ashutosh Kumar Singh established, Deep Sea Core Processing Wet Lab with generous funding from the University of Delhi and Ministry of Earth Science (Room No. 107) in the Department of Geology. The Lab is equipped with all facilities for storing deep-sea core samples at low temperature, processing facilities as per IODP protocols including

Ovens, Very sensitive Microbalance with high precision, Ultrasonic bath, wet sieving facility. In addition, the lab hosts reference slides of the Microfossils from the world ocean including, the Atlantic, Pacific, and Indian Oceans.

Session Co-conveners: Manika Gupta, Mon, 26 Apr, 13:30–15:00 (CEST), (Online mode), EGU, Vienna, (19-30 April 2021) Session: CL2.1, Impact of climate change on agriculture, Course coordinators: Dr. Manika Gupta, Course coordinator: Skill Enhancement Online Course (7th July – 20th July, 2021), Evolution of the Himalayas and Integration of GIS studies using QGIS software and R-programming.

Dr. Manika Gupta, Resource person in One-week workshop on QGIS, Image Processing and Species distribution modelling, Aug 28- Sep 4, 2021, IESD, Banaras Hindu University.

Dr. Manika Gupta, Resource person in two-week high-end workshop on “Remote sensing and digital image processing of satellite data for eco-system monitoring” w.e.f. Jan. 10-23, 2022, College of Horticulture and Forestry, RLBCAU, Jhansi.

Dr. Ashima Saikia Invited Key speaker for the “International Virtual Workshop on Recent Developments in Earth Sciences” Delivered talk on “Magmatic processes” on 4 th & 5 th November, 2021. Department of Geology, Arya Vidyapeeth College, Guwahati, Assam.

Department of Home Science

Brief History

The Department of Home Science was initiated in the year 1950 by the first full time Vice-Chancellor of independent India, Prof. S.N. Sen. Since then, the Department has come a long way and offers seven undergraduate programs, five Master’s programs in different specializations, two Postgraduate Diploma programs, B.Ed., along with Ph.D. program.

Initially taught in a single college, the Home Science courses are now being offered by more than 10 colleges of the University. As a discipline, Home Science integrates components of sciences, social sciences and technology and prepares students to take up professional positions in multiple career fields and equips them with life skills. Research and community outreach are an integral part of the



department which in turn enable students to be social entrepreneurs and leaders and contribute to national development. The alumni of the Department are very well placed in the industry, government, academics, international and national organizations.

Major Activities and Achievements

The Department is actively involved in the triple domains of teaching, research and extension. In 2021-2022, the faculty published more than 150 research papers in leading journals, 25 books and chapters and undertook 10 research projects. Several faculty members are on the advisory board of national and international organizations, deliver talks as expert resource persons, are on the editorial board of journals, involved in developing training/teaching modules, are examiners to Ph.D. students and have received many awards and honours. Over the years, the Department has produced a number of Ph.D. scholars who are doing pioneering work in their field of study. The strong community outreach programmes to address malnutrition, illiteracy, and poverty in the country and to empower vulnerable groups help to build a strong sense of social responsibility in the students. The Department is proud to be truly committed towards the achievement of national as well as global goals.

Honours/Distinctions

Prof. Geeta Trilok Kumar: Special Appreciation Award by the University of Delhi in the 'College Principals in Service' Category, 2021.

Dr. Seema Puri: 11th Rajammal P Devadas Memorial Award by the Nutrition Society of India and Nutrition Society of India and Nutrition Leadership Excellence Award by NIFTEM and Ministry of Food and Processing, Government of India, 2021.

Dr. Sunita Aggarwal: Best Teacher Award (Delhi State) by the Microbiologists Society, India, 2021.

Dr. Sukhneet Suri: College Lecturer Award, Conferred by Directorate of Higher Education, Government of India, 2022.

Dr. Sabrina Sareen: International Education Excellence Award conferred by Centre for Professional Advancement, Regd. under NITI Aayog, Govt. of India, 2021.

Dipesh Aggarwal: CQFS Food Safety Award, Conferred by Center for Quality and Food Safety, GGS Indraprastha University and Manav Rachna University, 2021.

Publications

Research Articles

Aggarwal, S., Kher, J., Vaid, N., & Kaur, M. (2022). Building literacy skills of urban poor women through the Each One Enable One approach. *Journal of Adult and Continuing Education*, 28(1), 208-226.

Sharma A., Punhani, G., & Aggarwal, S. (2021). A Global Perspective of ICT Development Indices: Gender the Missing Link. *International Journal of Information Communication Technologies and Human Development (IJICTHD)*, 13(4), 83-91.

Chaudhary, S., and Batham, M., (2021), The effect of antibacterial finish obtained from cymbopogon (lemongrass) against E. coli on cotton fabric (cambric), *Man Made Textiles in India*, 7, XL.

Kaur, B., Chanchal and Singh (2022), Occupational Health Hazards Faced by the Workers of Knitting Units, *Asian Journal of Organic & Medicinal Chemistry (AJOMC)*, 1, 7.

Arora, G., and Aggarwal, J, (2022), Relationship of self-esteem with clothing interest determinants amongst college students of metropolitan city Delhi, India, *The Indian Journal of Home Science*, 1, 34, 1-10.

Jain, P., & Gupta, C. (2021). A sustainable journey of handmade paper from past to present: a review. *Problemy Ekorozwoju*, 16(2).

Garg P., & Walia, A. (2021). Understanding Consumer Trends in Trading Scenarios for Handicraft Markets. *Journal of Textile &*



Apparel Technology & Management (JTATM), 12(2).

Atheya, R. (2021). Changing Business Paradigm in Covid-19: Redefining Human Resources roles in VUCA World. *International Journal of Multidisciplinary Educational Research*, 10(6).

Singh R., & Chopra, G. (2021). Evolution from Negative Identity to affirmation of 'Disability Identity': Life story of a Woman with Spina Bifida in India. *Disability, CBR & Inclusive Development*, 32(1).

Sharda, S., Tuli, M., & Chaudhary, N. (2022). Diachronicity in Aspirations and Personal Values of Adolescent Girls. *Human Arenas*, 1-12.

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Sachdeva, B., Puri, S., & Arora, R. (2021). Content Analysis of Food Related Television Advertisements Aimed at Children and Women: A Pilot Study in Delhi. *The Indian Journal of Nutrition and Dietetics*, 58(3), 361-268.

Arora, P., & Aeri, B. T. (2021). Association between high pre-pregnancy body mass index and antenatal depression: A study among pregnant women of upper socio-economic strata in North-West Delhi, India. *Clinical Epidemiology and Global Health*, 11, 100787.

Puri, S., Rekhi, T. K., Thomas, T., Jadhav, M. H., Mannar, V., & Diosady, L. L. (2022). Sensory Trial of Quintuple Fortified Salt—Salt Fortified with Iodine, Iron, Folic Acid, Vitamin B12, and Zinc—Among Consumers in New Delhi, India. *Food and Nutrition Bulletin*, 03795721221078361.

Sen, A., Kapila, R., Chaudhary, S., & Nigam, A. (2021). Biotechnological applications of microbial enzymes to replace chemicals in the

textile industry—a review. *TEXTILE Association*, 82(2), 68-73.

MALIK, A., GUSAIN, Y., PATHAK, R., & KUMAR G. T. (2021). Food Consumption Pattern of Adolescents in Delhi-NCR Born Full Term with Low Birth Weight with Reference to the New Estimated Average Requirement. *Journal of Clinical & Diagnostic Research*, 15(6).

Agarwal, A., Gupta, M., Kumari, A., & Gupta, A. (2022). DEVELOPMENT AND CHARACTERIZATION OF PHYSICO-CHEMICAL AND FUNCTIONAL PROPERTIES OF GREEN TEA YOGHURT. *Journal of microbiology, biotechnology and food sciences*, 11(5), e4666-e4666.

Bakshi, A., Singh K., & Siddhu, A. (2021). Body Composition of Chronic Kidney Disease Patients: A Multi-Stage Analysis. *Journal of Renal and Hepatic Disorders*, 5(1), 54-58.

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Rathi, K., Bhatia, N., Toteja G. S. (2021). Morbidity, Feeding Practices, and Immunization Status of Children 6 - 23 Months in Delhi. *Asian Pacific Journal of Health Sciences*, 8(2), 95–98.

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Sethi, V., Choedon, T., Chowdhury, R., Bhatia, N., Dinachandra, K., Murira, Z., ... & Hanson, M. (2021). Screening and management options for severe thinness during pregnancy in India. *International Journal of Gynecology & Obstetrics*, 155(3), 357-379.

Singh C., Mital, M., Gupta, P., & Syal, M. (2022). Skill Development in India: Need, Opportunities, and Challenges. *International*



Research Journal of Management Sociology & Humanities, 13(2), 53-61.

Agrawal, N., Gupta, P., & Jain, M. (2021). A study on perspective of stakeholders on Organic Food Products. *International Journal of Nutrition & Lifestyle*, 1(2), 43-47.

Jain, M., Mital, M., & Syal, M. (2020). Perspective of Government Officials on Solar Energy in the Commercial Sector in India. *OIDA International Journal of Sustainable Development*, 13(03), 11-24.

Dhasmana, R., Rupa, T. G., Goel, S., Sabharwal, M. (2022). Plastic Waste Management in the times of Pandemic: A Review. *International Journal of Engineering Research & Technology (IJERT)*, 11(2), 163-167.

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Chopra, S., Aggarwal, A., Rastogi, A. (2021). Sustainable Dyeing of Juco Fabrics Using Waste Marigold (*Tagetes Erecta*) Flowers for Development of Mosquito Repellent Home Textile Products, Sangoshthi-2021. *3rd International Conference on Sustainability in Crafts and Design at IICD, Jaipur*.

Goyal, N., Rastogi, D., Jassal, M., & Agrawal, A. K. (2021). Kinetic studies of photocatalytic degradation of an Azo dye by titania nanoparticles. *Research Journal of Textile and Apparel*.

Chaudhary, N., Kapoor, S., & Pillai, P. (2021). 'It was peers and playgrounds that were missing, not play': young children in Northern Indian homes during the pandemic. *International Journal of Play*, 10(4), 405-419.

Chaudhary, N., Gupta, D., & Kapoor, S. (2021). Social Conventions and Moral Obligations in Young Children's Care: Illustrations from Rural Families of Northern India. *Psychology and Developing Societies*, 33(2), 258-287.

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Mehtab, W., Chauhan, A., Agarwal, A., Singh A., Rajput, M. S., Mohta, S., ... & Makharia, G. K. (2021). Impact of Corona Virus Disease 2019 pandemic on adherence to gluten-free diet in Indian patients with celiac disease. *Indian Journal of Gastroenterology*, 40(6), 613-620.

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Sehgal, S., Yadav, R., Kumar M., Saji, H., & Sen, A. (2021). Phytochemical screening and antimicrobial potential of the flower extracts of *Hibiscus rosa sinensis* L., *Moringa oleifera*



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Sehgal, S., Vandana and Sen, A. (2022). Assessment of Knowledge, Attitudes and Practices towards functional foods. *International journal of Biology, Pharmacy and Allied Sciences, 11(2)*, 438-447.

Lamba, V., Singh R. (2021). Bioplastics: scope & extent of use in food industry—a review. *Journal of Emerging Technologies and Innovative Research, 8(3)*, 881-887.

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Ultrasound-assisted development of stable grapefruit peel polyphenolic nano-emulsion: Optimization and application in improving oxidative stability of mustard oil. *Food chemistry, 334*, 127561.

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Gulati R. & Wadhwa V. (2021). Early Childhood Education and School Readiness: An Indian Perspective in Children in India: Opportunities and Challenges. NOVA Science Publishers, New York.

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Agarwal, A., Sharma R., & Tripathi, A. D. (2021). Biofuel from Microalgae. In *Bioenergy Research: Biomass Waste to Energy* (pp. 55-83). Springer, Singapore.

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Research Projects

Department of Science and Technology DST) Science for Equity Empowerment and Development (SEED), 2 years (June 2020 - June 2022), Long-term health after severe acute malnutrition (SAM): the role of the Pancreas-(SAMPA) Women centric Weight Management Module for Menopausal Women (SEED/WS/2019/526), 34.00.

DST/SHRI (Science and Heritage Research Initiative), 2 Years (November 2019 -2021 November) Extended for 6 months, Scientific Phenomenon behind the Degradation and Conservation of Warak Printed Textiles of Rajasthan, 22.65

National Initiative on Design Innovation (NIDI), Ministry of Human Resource Development, Government of India, September 2019 onwards (Ongoing) till date, Design Innovation Center, Lady Irwin College, (SPOKE, Design Innovation Center, University of Delhi), 50.00

Medical Research Council, Global Health Nutrition, UK, 3 Years (2021-2024), Long-term



Health After Severe Acute Malnutrition (SAM):
The Role of Pancreas (SAMPA), 45.00

The Wellcome trust UK/DBT India Alliance, 5
Years (August 2018), To Improve the
Understanding of Interactions among Intra-
Uterine Growth Retardation, Early Growth, Gut
Permeability, Body Fat and Risk of Chronic
Disease in Birth Children, 429.2197

Bill and Melinda Gates Foundation (BMGF)
through Biotechnology Industry Research
Assistance Council (BIRAC), 5 Years (May
2019), Healthy Birth, Growth and
development Knowledge Integration Initiative
(HBGDKI), 5.3410

Indian Council for Social Science Research
(ICSSR), 2 Years (December 2021), Examining
Exclusion of Community-School Axis: An
Ethnographic Study of a Lower Class Urban
Settlement in Delhi, 9.1600

IHS, Bangalore, 1 Year (December 2021-2022),
Education Margins and City: Examining the
Linkages through an Ethnographic Exploration,
8.0300

Department of Biotechnology, Ministry of
Science and Technology, 3 Years (2020-2023),
Strengthening Life Science and Biotechnology
Education Training at undergraduate level,
25.00

International Life Sciences Institute-India, 9
Months (March 2021-December 2021),
Micronutrient Status of COVID-19 Hospitalized
patients, 2.00

Patents Filed/Granted

One and Coating compositions and methods
for preparation thereof to Meenakshi Garg
Susmita D Sadhu, Shivani Vermani and
students, Bhaskaracharya College of Applied
Sciences in 2022 by Controller of Patent,
Government of India.

One and Mushroom Inspired Garments, App
No. 317218-001, CBR No. 7963, Dr. M.K Nair,
Ms. Swati Yadav, Faculty of Fashion & Design,

SGT University, Lady Irwin College in 2021 by
Controller of Patent, Government of India.

Seminars/Conferences

Prof. K P Kochhar, Prof., Department of
Physiology, AIIMS, Institute of Home
Economics, under the aegis of 'DBT Star
College Scheme' in collaboration with
International Brain Research Organization Asia
Pacific Regional Committee (IBRO-APRC) &
Indian Academy of Neurosciences (IAN, Delhi-
NCR Chapter), International Virtual
Symposium "Recent Trends in Brain Research:
Unlocking the Mysteries, 2022, March 23.

Prof. Sudhir K. Jain, Adjunct Prof. and Former
HoD, IIT Delhi, ISHRAE, AEPL, ABS Airtech,
Astberg Ventilation, E-Summit-2021 on
"Entrepreneurship- Sensing Opportunities &
Building Resilience", 2021, October 23.

Prof. Savyasaachi, Prof., Department of
Sociology, Jamia Milia Islamia, Institute of
Home Economics, National Symposium on
"Ethics in Social Science Research and
Publication", 2021, April 10.

Seminar/Conference Presentations (National/International)

Chopra, S., Ranjan, P., Malhotra, A., Sarkar, S.,
Kumari, A., Prakash, B., Kaloiya, G.S., Dwivedi,
S.N., Siddhu, A. & Vikram, N.K. (2022, April 15).
Validation of tools to assess predictors of
successful weight loss outcome in individuals
presenting with overweight and obesity. 77th
National Conference of Association of
Physicians of India APICON organized by
Association of Physicians of India held at Jaipur
(offline).

Aggarwal, S., Kher, J. (2022, February 24).
Gender based risk assessment to climate
change: Quantification at sub-national level in
India. GENERATE Workshop Decolonizing
gender & climate change in the global south.
UK Research & Innovation, University of LEEDS.
(Online).

Anand, A. and Sekhri, S. (2022). Resurgence of
Selected Indian Crafts in COVID-19 Pandemic,
Virtual International Conference on "Tracing



Seventy-Five Years of Indian Fashion Post Independence” organised by National Institute of Fashion Technology, Gandhinagar, Gujarat, India.

Mishra, A., Chanchal and Kaur, B., (2021, November 16-17) on ‘Occupational Health Hazards in small scale Garment Manufacturing Units’ at International Conference on Fashion Apparel and Textile, Organized by Amity School of Fashion Technology, Noida.

Mital, M. (2021, August 17-18) Resource person for lecture on ‘Marketing Education in India’, Reimagining Marketing Education in the 4th industrial Era, Organized by Department. of Marketing and Retail Management, University of South Africa (UNISA).

Vaid, N., Kaur, B. (2021, June 10-11). Digital Literacy: A tool for Women Empowerment during COVID-19 Pandemic. ICSSR sponsored national webinar ‘Socio- economic- political implications of covid -19 on women in India. Kalindi College, University of Delhi.

Deorane A., Sabharwal M., Bakshi A. (2021, June 10-11). Perceived stress and dietary choices during COVID-19 pandemic in men and women aged 25-35 years working as sales executives from home. UGC STRIDE National Level- Virtual Research Paper.

Mathur, P. (2021, June 19). Efficacy and Safety of Micronutrient Supplementation at the two-day Virtual International Conference on Role of Micronutrients: Immunity and Health, organised by Manav Rachna International Institute of Research and Studies, Faculty of Allied Health Sciences on 19th June 2021.

Dr. Sukhneet Suri (2021, July 15). Shelf Life of Value-Added Preserves from Fruit Pomace. International Conference on Recent Trends and Innovations in Microbiology.

Batra, S., Anand, S., Chadha, T.K. & Capila, A. (2021). Case Studies of Positively deviant individuals related to family planning: A study in Delhi’s resettlement colonies. Abstract published in Abstract Book of UGC National

Conference on Unfolding the Potentials of Women including Girls and Children: Enhancing the Benefits Exponentially for One and All-Sabka Saath-Sabka Vikas organized by Aditi Mahavidyalaya, University of Delhi. Pp: 55-56.

National/International MoUs Signed

Collaboration of the Institute of Home Economics with Government Zirtiri Residential Science College, Aizawl, Mizoram under the Vidya Vistar scheme of the University.

Collaboration of Institute of Home Economics with London School of Hygiene and Tropical Medicine for research from 2021 to 2024. (Coordinator: Prof. Geeta Trilok Kumar).

Collaboration of Institute of Home Economics with St Johns Research Institute, Bangalore for research in the area of Deuterium Dilution Stable isotope work from 2018 to 2023. (Coordinator: Prof. Geeta Trilok Kumar).

Collaboration of Institute of Home Economics with Indira Gandhi National Open University (IGNOU) as a study center for Masters Courses in Home Science in the past 15 years. (Coordinator: Dr. Renu Gulati).

Department of Food and Nutrition and Food Technology: Tripartite agreement between State Level Technical Institution (SLTI), Lady Irwin College and DSIIDC and DSEU for Incubation center under the Pradhan Mantri Formalisation of Micro Food Processing Enterprises (PMFME) Scheme under Atmanirbhar Bharat Abhiyan by Ministry of Food Processing Industries (MoFPI) Gol.

Department of Fabric & Apparel Science, Lady Irwin College, Accelerating Competitiveness in Post Covid World, 16th International Conference on Apparel & Home Textiles (ICAHT 2021) by Okhla Garment & Textiles Cluster with Department of Fabric & Apparel Science, Lady Irwin College.

MoU of Department of Resource Management & Design Application, Lady Irwin College with School of Planning, Design & Construction,



Michigan State University, USA for study abroad programme and collaborative researches both at masters and doctoral level (Coordinator: Prof. Meenakshi Mital).

Collaboration of Department of Resource Management & Design Application, Lady Irwin College with National Skill Development Corporation, Ministry of Skill Development and Entrepreneurship, Government of India and M3M Foundation for Skill Hub Initiative (PMKVY 3.0) (Coordinators: Prof. Puja Gupta, Prof. Meenakshi Mital and Dr. Meenal Jain).

Collaboration of Department of Resource Management & Design Application, Lady Irwin College with Indian Council of Medical Research – National Institute for Research on Non-Communicable Diseases (ICMR-NIRCD) for Masters' researches (Supervisor: Prof. Puja Gupta,).

Collaboration of Department of Resource Management & Design Application, Lady Irwin College with Society for Indoor Environment for Masters' researches (Supervisor: Prof. Puja Gupta,).

Collaboration of Department of Resource Management & Design Application, Lady Irwin College with Ministry of New & Renewable Energy, Government of India for webinar series on 'Sustainable Development: Technologies, Policies and Practices. Resource person: Dr. A.

Tripathi, Consultant, MNRE; Former Director General, NISE, Government of India (Coordinators: Prof. Meenakshi Mital, Prof. Puja Gupta, and Dr. Meenal Jain).

Department of Resource Management and Design Application, Institute of Home Economics collaborated with ISHRAE-DCI Chapter for Awareness and Training Programmes in the various fields of environment conservation, climate change, Indoor Air Quality and more (Year of signing 2020 for two years).

Other Inter-Institutional Collaborations

Collaboration of Department of Resource Management & Design Application, Lady Irwin College with Association of Women in Business for student lectures and webinars.

Collaboration of Department of Resource Management & Design Application, Lady Irwin College with GIZ for student lectures and webinars.

Collaboration of Department of Resource management and Design Application, Institute of Home Economics Eco-Club 'Prakritik' with 'National Institute of Disaster Management' (Ministry of Home Affairs, Government of India) to observe 'International Day for Disaster Reduction 2021' held on October 11, 2021.

Collaboration of Lakshmibai College with Nutrition Society of India to celebrate Rashtriya Poshan Maah, on September 28, 2021.

Collaboration of Lakshmibai College with Shiksha Sanskriti Utthan Nyas to organise intercollege competitions on October 12, 2021.

Collaboration of Lakshmibai College with Khadi Village Industries Commission, Sankalp for Khadi and Shiksha Sanskriti Utthan Nyas, to organise a webinar on 'Khadi: Fabric of Freedom to Fashion Statement,' on October 1, 2021.

Collaboration of Department of Food Technology, and Vidya Vistar Committee, Vivekananda College with Government Model College, Deithor, and Sri Venkateswara College, Tirupati to organize National Level Business Proposal Ideation Competition: PINEATHON in August 2021.

Extension and Outreach Activities

Each One Enable One Programme by Department of Development Communication and Extension, Institute of Home Economics, comprising empowering women with digital literacy training over a period of eight months.



Nutrition and health education by the Department of Food and Nutrition, Institute of Home Economics during 'Poshan Maah', in September 2021 for school and college students and women and beneficiaries of ICDS on diverse topics impacting the community such as infant and child feeding practices, healthy eating, reversing PCOS, food safety, combatting adolescent obesity and food adulteration.

Nutrition report card program by Vivekananda College involving assessing nutrition score and diet counselling.

Red Dot Project by Lakshmibai College, encompassing development of reusable and sustainable sanitary napkins for women emancipation and empowerment.

Lakshmibai College conducted 8 training for 180 students on Basic and Advance Catering in collaboration with FSSAI.

Sensitizing Infosys employees towards the 'Role of Nutritious Diet and Work Life Balance' by the Department of Food and Nutrition, Lady Irwin College.

Sensitizing common people to nutrition through "Poshan Ke Anmol Mantra " by the Department of Food and Nutrition, Lady Irwin College.

Two candidates with disability (PWD) were trained in hand embroidery from January 2021 to November 2021 for preparing to participate in International Abilitylympics to be held in France 2023 by the Department of Fabric and Apparel Science, Lady Irwin College.

Faculty Strength

181 (Approximately)

Number of Ph.D. Degrees Awarded

13

Department of Physics and Astrophysics

Major Activities and Achievements

The Department of Physics and Astrophysics has maintained its position as the topmost QS ranked university physics department in India. It is also one of the largest physics departments in the country, with nearly 730 M.Sc. students, 180 Ph.D. students, and a current strength of 37 regular faculty members. It has sustained its high quality in research with nearly 300 research publications by faculty members, apart from those by students, in international refereed journals during the year. The faculty received several national and international grants and participated in collaborative projects across the globe. The department hosted various eminent researchers who gave inspiring lectures to motivate students. Alumni from the department occupy key positions in academics, administration, policy making and public life, in both the national and international zones. The M.Sc. curriculum of the department provides a wide choice of

electives, including inter-disciplinary subjects, to its students. The department also offers a plethora of cutting-edge research topics under a vibrant Ph.D. program. An exclusive departmental portal <http://physics.du.ac.in/>, displaying regular updates on its academic and other activities, has successfully run online during the year.

Honours/Distinctions

Prof. Brajesh Chandra Choudhary: Spokesperson, India-CMS Collaboration (August 2017 - August 2021). Spokesperson, Indian Institutions: Fermilab Collaboration in Neutrino Physics Member, CMS Finance Board (August 2019 - August 2022). Co-Chair, CMS Diversity Office (2020 – 2022). Member, Expert Committee, Department of Science and Technology (DST), Govt. of India, for reviewing research projects for award of scientific grants (2020-2021). Member, Mega Science Vision 2035: Committee constituted by the Office of



Principal Scientific Adviser, Govt. of India (2020-2021). Member, Mega Sciences (Blue Sky) Committee to formulate Science, Technology and Innovation Policy 2020 (STIP-2020): Nominated by the office of the Principal Scientific Adviser, and Secretary, Department of Science and Technology, Government of India (continuing from 2020). Co-convenor, SNOWMASS 2022 (USA) Topical Group for Public Policy and Government Engagement (continuing from 2020). Member, Board of Research Studies in Physics, Aligarh Muslim University (2020-2021).

Prof. Debajyoti Choudhury: Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics (continuing in 2021) Member, Expert Committee of Department of Science and Technology (DST), Govt. of India, for SERC School in THEP (2020-2021).

Prof. Patrick Das Gupta,: President, Indian association of General Relativity and Gravitation (IAGRG) (continuing from 2020). Member, Departmental Research Committee, Department of Physics, Indira Gandhi National Tribal University, Amarkantak, Chhattishgarh (continuing from 2020). Member, Under-Graduate Board of Studies in Physics, Pondicherry University, Puducherry – (continuing from 2020).

Prof. Samit Kr. Mandal: Member, Board of Studies (BOS), Amity Institute of Nuclear Science and Technology, Amity University, Noida (2020-2021). Member, Committee for updating equivalent discipline for recruitment, Defence Research & Development Organization (DRDO) (2018 onwards). Member, Planning Committee, SERB School on Nuclear Physics (2018 onwards). Member (with voting right), NUSTAR Council, FAIR-NUSTAR project, GSI, Darmstadt, Germany (2018 onwards). Co-convenor, FAIR-NUSTAR-INDIA Collaboration (2017 onwards). Member, Expert committee, SERB High Risk High Reward Research (HRHR) (2017 onwards). Member, Special committee, Special Centre for Nanoscience (SCNS), Jawaharlal Nehru

University (2020-2021). Member, Selection committees for JRF/Research Associate/Scientist, Inter-University Accelerator Center (2008 onwards). Member, Evaluation Committee for JRF to SRF, Inter-University Accelerator Center, (2008 onwards). Prof. Shyama Rath: Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics (2020-2021). Member, Post-Graduate Board of Studies in Physics, Pondicherry University, Puducherry - continuing in 2020-21. Member, Departmental Research Committee, Delhi Technological University (2020-2021). Member, Selection Committee, KVPY (2020-2021). Member, Selection Committee, CSIR-SRF and RA (2020-2021). Member, Evaluation Committee, DST Ph.D. Inspire Awards (2020-2021).

Prof. H.P. Singh: Member, DST-JSPS, Indo-Japan Science Council (2016 onwards). Dean, International Relations, University of Delhi (2016 onwards). Chair, Time Allocation Committee, Indian Institute of Astrophysics (2018 onwards).

Prof. Annapoorni Subramaniam: Member, Academic council, Jawaharlal Nehru University, Pondicherry University and Amity Institute of Nanotechnology (2020-2021). Local coordinator, GIAN (2020-2021).

Prof. Amita Chandra: Member, Board of Studies, School of Vocational Studies and Applied Sciences, Gautam Buddha University (2020-2021). Research Ambassador, DAAD (2014 onwards).

Prof. Nivedita Deo: Member, Complex Systems Society (CCS), International (2020-2021).

Prof. Awadhesh Prasad: Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics (2020-2021). Member, Student Research Committee, Department of Applied Physics, Delhi Technological University, Delhi (2020-2022).



Publications

Research Articles

Singh M., & Gupta, D. N. (2022). Optical second-and third harmonic radiation generation in a laser-produced plasma. *Laser Physics*, 32(8), 085001.

Gupta, D. N., Jain, A., Kulagin, V. V., Hur, M. S., & Suk, H. (2022). Coherent terahertz radiation generation by a flattened Gaussian laser beam at a plasma–vacuum interface. *Applied Physics B*, 128(3), 1-9.

Jain, A., Gupta, D. N., & Kumar S. (2022). Self-compression of a high-intensity laser pulse in a double-ionizing gas. *Physics of Plasmas*, 29(1), 012109.

Gupta, D. N. (2021). Second-Harmonic Generation of a Short-Laser Pulse from a Gas-Jet Immersed in a Magnetic Field. *IEEE Transactions on Plasma Science*, 50(1), 17-22.

Jain, A., & Gupta, D. N. (2021). Optimization of electron bunch quality using a chirped laser pulse in laser wakefield acceleration. *Physical Review Accelerators and Beams*, 24(11), 111302.

Gupta, D. N., Yadav, M., Jain, A., & Kumar S. (2021). Electron bunch charge enhancement in laser wakefield acceleration using a flattened Gaussian laser pulse. *Physics Letters A*, 414, 127631.

Kornienko, V. N., Kulagin, V. V., & Gupta, D. N. (2021). Scattering of a Monopolar TE-Polarized Electromagnetic Pulse on an Ideally Conducting Cylinder. *Journal of Communications Technology and Electronics*, 66(7), 818-821.

Saxena, S., Bagchi, S., Tayyab, M., Chakera, J. A., Kumar S., & Gupta, D. N. (2021). Enhanced broadband terahertz radiation from two-colour laser pulse interaction with thin dielectric solid target in air. *Journal of Infrared, Millimeter, and Terahertz Waves*, 42(7), 747-760.

Jain, A., & Gupta, D. N. (2021). Improvement of electron beam quality in laser wakefield acceleration by a circularly-polarized laser pulse. *Plasma Physics and Controlled Fusion*, 63(7), 075007.

Pandey, A., Bhushan, R., Rohilla, A., Majumder, C., Chakraborty, S., Singh R. P., ... & Chamoli, S. K. (2021). Fabrication of thin Nb target for lifetime measurements of short lived excited nuclear states. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 985, 164667.

Ali, M., Tsud, N., Meena, S. S., & Murugavel, S. (2022). Size dependent electronic structure of LiFePO₄ probed using X-ray absorption and Mössbauer spectroscopy. *Physical Chemistry Chemical Physics*, 24(16), 9695-9706.

Mishra, S., & Murugavel, S. (2022). Biomineralization behavior of ternary mesoporous bioactive glasses stabilized through ethanol extraction process. *Journal of Non-Crystalline Solids*, 589, 121630.

Sharma Y., & Murugavel, S. (2021). Direct evidence for the behaviour of single and bipolarons in chalcogenide glasses. *Journal of Non-Crystalline Solids*, 559, 120650.

Punia, R., Dahiya, S., Murugavel, S., Kishore, N., & Tandon, R. P. (2021). Understanding the electrode polarization in bismuth zinc vanadate semiconducting glasses from dielectric spectroscopy: A new insight on electrode polarization effect. *Journal of Non-Crystalline Solids*, 574, 121174.

Tripathi, A. K., Murugavel, S., & Singh R. K. (2021). Dead Ashoka (*Saraca asoca*) leaves-derived porous activated carbons and flexible iongel polymer electrolyte for high-energy-density electric double-layer capacitors. *Materials Today Sustainability*, 11, 100062.

Dahiya, A., Gupta, K. K., & Singh S. S. (2022). Equation of State of Magnetized PNJL Model in Finite Chemical Potential. *Physics of Particles and Nuclei*, 53(2), 354-360.



- Jarwal, B., & Singh S. S. (2022). Modified amplitude of boson star rotation by the cosmological constant and coupling term of the curvature of the Universe. *Pramana*, 96(1), 1-6.
- Kumar Y., Sethy, P. K., & Singh S. S. (2021). A Simple Model Approach to Dilepton Production Rate in Relativistic Heavy Ion Collisions. *Physics of Particles and Nuclei Letters*, 18(2), 160-165.
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Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau b b$ final state at 13 TeV. *Journal of High Energy Physics*, 2022(11), 1-54.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Study of Z boson plus jets events using variables sensitive to double-parton scattering in pp collisions at 13 TeV. *Journal of High Energy Physics*, 2021(10), 1-43.

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Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. *The European Physical Journal C*, 82, 213.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for lepton-flavor violating decays of the Higgs boson in the $\mu\tau$ and $e\tau$ final states in proton-

proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review D*, 104(3), 032013.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. *Journal of High Energy Physics*, 2022(3).

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*, 2022(2), 1-66.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. *The European Physical Journal C*, 82(4), 1-28.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*, 2022(3), 1-37.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review D*, 104, 052011.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13$ TeV in the fully hadronic final state. *Journal of High Energy Physics*, 2021(12), 1-46.



Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. *Physical Review D*, *104*, 052004.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for W' bosons decaying to a top and a bottom quark at $s=13\text{TeV}$ in the hadronic final state. *Physics Letters B*, *820*, 136535.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton–proton collisions at $\sqrt{s}=13\text{TeV}$. *The European Physical Journal C*, *81*(8), 1-29.

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Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s}=13\text{TeV}$. *Journal of High Energy Physics*, *2021*(7), 1-87.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Performance of a triple-GEM demonstrator in pp collisions at the CMS detector. *Journal of Instrumentation*, *16*(11), P11014.

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simulation with the CMS triple-GEM detector. *Journal of Instrumentation*, *16*(12), P12026.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton–proton collisions at $\sqrt{s}=13\text{TeV}$. *The European Physical Journal C*, *81*(6), 1-47.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Using Z boson events to study parton-medium interactions in Pb-Pb collisions. *Physical review letters*, *128*(12), 122301.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s}=13\text{TeV}$. *Journal of High Energy Physics*, *2021*(7), 1-62.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for new particles in events with energetic jets and large missing transverse momentum in proton–proton collisions at $\sqrt{s}=13\text{TeV}$. *Journal of High Energy Physics*, *2021*(11), 1-72.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for chargino-neutralino production in events with Higgs and W bosons using 137fb^{-1} of proton–proton collisions at $\sqrt{s}=13\text{TeV}$. *Journal of High Energy Physics*, *2021*(10), 1-46.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Combined searches for the production of supersymmetric top quark partners in proton–proton collisions at $\sqrt{s}=13\text{TeV}$. *The European Physical Journal C*, *81*(11), 1-35.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Performance of a triple-GEM demonstrator in pp collisions at the CMS detector. *Journal of Instrumentation*, *16*(11), P11014.



Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. *Physical review letters*, 127(26), 261804.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Benchmarking LHC background particle simulation with the CMS triple-GEM detector. *Journal of Instrumentation*, 16(12), P12026.

Bhardwaj A., Choudhary B.C., Kumar A., Naimuddin M., & Ranjan K. (2021). Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*, 2021(11), 1-48.

Jain G., Jain C., Saumya S., Agrawal N., Bhardwaj A., & Ranjan K. (2021). Radiation hardness studies of thin and low bulk resistivity LGADs. *Semiconductor Science and Technology*, 36(6), 065016.

Jain G., Jain C., Saumya S., Agrawal N., Bhardwaj A., & Ranjan K. (2021). Selection of the silicon sensor thickness for the Phase-2 upgrade of the CMS Outer Tracker. *Journal of instrumentation*, 16, P11028.

Jain G., Jain C., Saumya S., Agrawal N., Bhardwaj A., & Ranjan K. (2021). Comparative evaluation of analogue front-end designs for the CMS Inner Tracker at the High Luminosity LHC. *Journal of instrumentation*, 16, P12014.

Jagannathan, S., Malik, S., Jain, D., & Seshadri, T. R. (2021). Impact of magnetic field on the gas mass fraction of galaxy clusters. *New Astronomy*, 84, 101531.

Pandey, A. K., Malik, S., & Seshadri, T. R. (2021). Implications of baryon–dark matter interaction on IGM temperature and tSZ effect with magnetic field. *Monthly Notices of the Royal Astronomical Society*, 500(1), 643-654.

Jagannathan, S., Sharma R., & Seshadri, T. R. (2021). Imprints of the post-recombination dissipation of helical magnetic field on the

Cosmic Microwave Background Radiation. *International Journal of Modern Physics D*, 30(01), 2050122.

Books/Chapter in Books

Kar, S. (2022). NANon-commutative Geometry: A Perspective on String and Field Theories. *World Scientific Publication*, 1-250.

Kumari, R., Deo, N., & Bhadola, P. (2022). Random Matrix Analysis of Protein Families. *ECS Transactions*, 107(1), 18877.

Research Projects

Inter University Accelerator Center (IUAC), Delhi, India, 2022-2025, Lifetime measurements in neutron deficient rare earth nuclei with mass $A \sim 140$, 10
Institute of Eminence (IOE), University of Delhi, India, 2021-22, Study of nuclear shape evolution in 150Dy nucleus with lifetime measurements, 03

Science and Engineering Research Board (SERB), Dept. of Science and Technology (DST), Govt. of India, India, 2018-21, Growth of periodic multi-bi-layer structure of high Z metals on the surface of three-dimensional topological insulators, 29.15

University Grants Commission (UGC), India, 2018-21, Start up grant for the faculties recruited under UGC-Faculty Recharge Program (FRP), 06

UGC-DAE Centre for Scientific Research (CSR), Indore, India, 2022-23, Magneto-Topological insulator interface: Synthesis and structure-property correlation studies, 0.45

UGC-DAE-CSR, 2021, Singular Structural and Charge Transport Properties of Highly Defective Polyanionic Solids, 1.5

Department of Science and Technology (DST), Govt. of India and Russian Foundation of Basic Research (RFBR), 2020-2022, Compact Terahertz radiation source by laser-matter interactions and some applications, 26



Institute of Eminence (IoE), University of Delhi, 2021-22, Compact electromagnetic radiation source from laser-plasma interactions, 2.95

Institute of Eminence (IoE), University of Delhi, 2021-22, Metal Nanoparticles Decorated Dielectric Nanospheres for Optical Antenna Applications, 03

Science and Engineering Research Board (SERB), Dept. of Science and Technology (DST), Govt. of India, India, 2022, Investigation of the Spin isomers and high spin states in the Po isotopes (N=119-122) and evaluation/compilation of reduced transition probabilities of octupole isomers, 28

UGC-DAE Consortium for scientific Research Kolkata Centre, 2019-22, Search of large Octupole collectivity and high-spin isomers near N=126 shell closure, 13

DST, 2019-2024, Indian Institutions – Fermilab Collaboration in neutrino physics, 280.71

CEFIPRA (Indo French), 2018-2021, Pre-evolutionary processes in autocatalytic RNA networks, 17.73

Institute of Eminence (IOE), University of Delhi, India, 2021, Synthesis and Characterization of ferroelectric nanoparticles, 03

SERB-DST, 2019-22, Probing New Physics Interactions, 75

SERB-DST, 2017-21, Magneto-Optic and Plasmonic Response in magnetic core-shell structures and magnetic multilayers, 67.41

SERB-DST, 2020-21, The role of spacer layer in exchange-coupled bi-phased magnetic multilayers and nano-composites, 20.81

CSIR, 2019-22, Galactic & Extragalactic Archeology using Variable Stars, 20

DST (Indo-US joint network), 2018-21, Theoretical Analyses of Variable Star Data in the era of Large Surveys, 60

ER & IPR, 2019-24, Fabrication of Lamb Wave Devices on SiO₂/Si, 428.03

DRDO, 2018-21, Optimization of TiO_x film and patterning of the polymer (PI-2610) as sacrificial layer for pixel fabrication, 22.19

SERB-DST, 2021-24, Generation and Assessment of Optically Addressable Point Defects in Silicon Carbide for new quantum Technologies, 42.6

DST (Indo-Japan), 2021-23, Fingerprinting of point defects in silicon carbide created by energetic particles for their relevance in quantum technologies, 9.64

DST-DAAD, 2020-21, Electron and ion acceleration from laser-plasma interactions, 9.64

DST & Russian Foundation of Basic Research, 2020-22, Compact “Table-top” powerful terahertz source by laser-matter interactions and some applications, 26

SERB-DST, 2019-22, To Design and Develop a novel spin controlled chiral quantum dot DNA bio-sensor, 17.71

MPRINT 2, MHRD – DST + Industry, 2019-22, Development of spin dependent smart electrode for DNA bio-sensor, 32.45

Seminar/Conference Presentations (National/International)

Inaugural Talk on “Crystals for Science and Society” in National Seminar on Recent Trends in Contemporary Physics”, Deshbandhu College, 2021, March 31.

Plenary Talk on “High Performance Perovskite Piezoelectric Crystals and Nanoparticles for Green Energy” in 4th International Conference on Nanomaterials Science and Mechanical Engineering (ICNMSME2021), University of Aveiro, Portugal 2021, July 06-09.

Keynote Talk on “Single Crystals and Nanoparticles for Strategic Applications” in



Summer Physics Workshop-2021 in Gargi College, DU, 2021, July 12-13.

Deo, N., Invited Webinar entitled “Quantum Inspired Tensor Networks for Financial Systems”, International Conference on Artificial Intelligence in Complex Socio-Economic Systems and Public Policy, Centre for Complexity Economics, Applied Spirituality and Public Policy (CEASP), Jindal Global University, 2021, January 21.

Gupta, D. N., Invited Webinar entitled “Laser wakefield acceleration of electrons by a circularly polarized laser pulse”, The Asian Forum for Accelerators and Detectors (AFAD), organized by Budker Institute of Nuclear Physics (BINP), Novosibirsk, Russia, 2021, March 16.

Kumar Suresh, Invited Webinar entitled “Interplay of nucleon orbitals in nuclear structure: coupling schemes and band-crossing of dipole bands”, International conference on Theoretical Aspects of Nuclear Physics, Department of Physics and Astronomical Sciences, Central University of Himachal Pradesh, Dharamshala, 2021, February 15.

Kumar Binay, Invited Webinar entitled “Growth of Functional Bulk- and Nano-Crystals for Energy Harvesting”, 3rd International Workshop on Characterization and Analysis of Nanomaterials, University of Aveiro, Portugal, 2021, February 03.

Rath, S., Invited Webinar entitled “1.2D Nanomat-2021”, International Conference on Recent Trends in 2D Nanomaterials, Amity University, Mumbai, India, 2021, February 24.

Kar, S., Invited Webinar entitled “Nobel Prize 2020 in Physics: Massive Black Hole Formation”, delivered at Feynmania 2021 Annual Fest, ARSD College, University of Delhi, India, 2021, March 23.

Kumar Binay, Invited Webinar entitled “Growth of Single Crystals by Various Techniques for Optical, Piezoelectric and Communication Applications” 29th DAE-BRNS

National Laser Symposium, RRCAT Indore, India, 2021, February 12.

Other Inter-Institutional Collaborations

International:

B. C. Choudhary

India-CMS Collaboration at CERN, Geneva, Switzerland, Fundamental Research.

NOvA Collaboration, Fermilab, USA, Fundamental Research.

Kirti Ranjan

Indo-Italy Collaboration on Detectors, High Energy Physics Research.

India-CMS Collaboration at CERN, Geneva, Switzerland, Fundamental Research.

Nivedita Deo

Research Collaboration on Research on Protein Networks, Institute of Fundamental Studies, Naresuan University, Thailand.

Shyama Rath

Collaborative Research, Departamento de Física Atómica, Molecular, Nuclear, Facultad de Física, University of Sevilla, Spain.

Collaborative Research, Physics Department, University of Torino and INFN, Torino, Italy, Collaborative Research, Department of Physics, University of Surrey, Guildford, Surrey, United Kingdom.

Collaborative Research, Center for Accelerator Science, ANSTO, Australia.

Collaborative Research, Sandia National Laboratories, Radiation-Solid Interactions, Albuquerque, NM, USA.

Collaborative Research, Intl. Atomic Energy Agency, Vienna, Austria.

Vinay Gupta,

Collaborative Research with Prof. A. P. Freundorfer and Prof. M. Sayer, Queens Univ., Kingston, Canada.

H. P. Singh

Indo-US Collaboration with Nodal Institute: Delhi University, India, Theoretical Astrophysics Research.

Smait Kr. Mandal



FAIR Collaboration, GSI, Germany, Nuclear Physics Research.

AGATA Collaboration, European Union, Nuclear Physics Research.

PRESPEC Collaboration, GSI, Germany, Nuclear Physics Research.

D. N. Gupta,

Experimental Research using GPU based high-speed computing and petawatt laser facilities, Strathclyde University, Glasgow.

Collaborative Research on Laser-plasma interaction, Gwangju University of Science and Technology (GIST), Gwangju, South Korea.

Collaborative Research on Terahertz radiation generation, Sternberg Astronomical Institute of Moscow State University.

Ajit Kr. Mahapatro

Collaborative Research with Prof. Y-R M.A. and Prof. Y-K Cuo, Department of Physics, National Dong Hwa University, Hualien, Taiwan.

Ashutosh Bhardwaj

CMS Experiment RD50 Collaboration, High-energy Physics research.

Ashok Kumar

CMS Experiment RD50 Collaboration, High-energy Physics research.

M. Naimuddin

CMS Experiment RD50 Collaboration, High-energy Physics research.

S. Sur

Quantum Gravity and Cosmology Research with Prof. Saurya Das Department of Physics and Astronomy, University of Lethbridge, Alberta, Canada.

National:

Shyama Rath

Collaborative academic works as a panelist in hosting foreign students at Delhi University, Indian Council for Cultural Relations (ICCR), India.

Collaborative Research, Solid State Physics Lab, DRDO, New Delhi, India.

Collaborative Research, NPL, New Delhi, India.

Collaborative Research, Inter-University Accelerator Centre (IUAC), New Delhi, India.

Collaborative Research, National Chemical Laboratory, Pune, India.

Collaborative Research, Institute of Physics, Bhubaneswar, India.

Vinay Gupta,

Collaborative Research with Dr. A. Kapoor, Solid State Physics Lab, DRDO, New Delhi, India.

Collaborative Research with Dr. G. Gupta, and Dr. A. Kumar NPL, New Delhi, India.

Samit Kr. Mandal

INO Collaboration, India, High Energy Physics Research.

INGA Collaboration, India, High Energy Physics Research.

Jyoti Rajput

Joint Research Project, Inter-University Accelerator Centre (IUAC), New Delhi, India.

Ajit Kr. Mahapatro

Collaborative Research with Dr. S. P. Singh NPL, New Delhi, India.

Collaborative Research with Prof. S. Ghosh, JNU, New Delhi, India

Collaborative Research with Prof. T. Basu, AMITY, Noida, India

Collaborative Research with Dr. P. Poddar, NCL, Pune, India.

S. Roy

Experimental Research using central facilities and large equipments, UGC-DAE CSR, Indore, India.

Faculty Strength

Permanent: 38

UGC-FRP: 02

Number of Ph.D. Degrees Awarded

36

Other Significant Information

Annual Raman Ramkumar memorial award in computational physics for meritorious M.Sc. students.



Department of 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 human. Faculty members in the last one year have published 56 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 received substantial funding from various funding agencies both from National and International. The Department of Zoology has been recognized for DST-FIST, UGC-SAP/CAS schemes. Department imparts M.Sc. teaching and training in advanced areas of Zoology. M Sc in Zoology was awarded to 117 candidates. In addition, 22 Ph.D. degrees has been awarded to the students in last one year.

Honours/Distinctions

Prof. M. M. Chaturvedi

Chancellor Nominee to the University Court of Cluster University, Jammu (J & K) 2021.

Member, Indo Australia Biotechnology Forum Review Board, Department of Biotechnology, Govt. of India, New Delhi (2021)

External Member of School Board, School of Life Sciences, Mizoram University, Aizawl. 2020.

External member, DRC, AIMMSCR, Amity University, NOIDA Since 2020

External member, BOS, AIMMSCR, Amity University, NOIDA Since 2020

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, BioCARE, Department of Biotechnology, Govt. of India.

Expert Member, DBT National RA committee, Department of Biotechnology, Govt. of India.

Member, Board of Governors (BoG), and Board of Management (BoM), GSFC University, Vadodara, Gujarat.

resident, Association of Teachers in Biological Sciences, Mumbai India.

Prof. Rina Chakrabarti

Serving as a member of the Research Advisory Committee of Central Institute of Fisheries Education, ICAR, Mumbai for the period of 2020-2022.

Serving as a member of the Fisheries Sciences Committee of National Academy of Agricultural Sciences, NAAS, India since August 2021.

Serving as a member of the Quinquennial Review Team of Central Institute of Brackish water Aquaculture, ICAR, Chennai since 2020.

Outstanding Reviewers Certificates from Elsevier's Journals: "Certificates of Outstanding Contribution in Reviewing" for Aquaculture, Fish & Shellfish Immunology and Food Chemistry".

Technical Expert Committee (TEC): Serving as a member of the Technical Expert Committee on "Aquaculture and Marine Biotechnology" of Department of Biotechnology, Government of India, New Delhi since October, 2018 - 2021.

REVIEWER OF RESEARCH PROJECTS OF FUNDING AGENCIES: Department of Science and Technology, DST, Govt. of India; Department of Biotechnology, DBT, Govt. of India; Indian Council of Agricultural Research, ICAR, Govt. of India; Council of Scientific and Industrial Research, CSIR, Govt. of India

Prof. D.K. Singh

President, Association of Microbiologists of India, 2021

Member, Training, Research and Academic Council (TRAC) of Wildlife Institute of India, with effect from 10.5.2018 for three years.

Prof. R. K. Seth

Advisor, Ministry of Environment and Forests, Govt. of India

UGC Nominee for CAS/SAP program in Zoology Department, Annamalai University, Tamil Nadu.

UGC Nominee for CAS/SAP program in Zoology Department, Punjabi University, Patiala.



UGC Nominee for CAS/SAP program in Zoology Department, Panjab University, Chandigarh.

Prof. Rita Singh

Guest of Honor, in the Valedictory function, on 10th Oct 2021, 3-day Virtual International Conference on “Infections and Immunity” under the auspices of Daulat Ram College, Univ. of Delhi, from 8th-10th Oct 2021.

Resource person, Science Academies’ Virtual Lecture Workshop on Nucleic acid chemistry and rDNA technology, entitled “Cloning and Expression of Therapeutic Protein in Prokaryotic and Eukaryotic Systems, Aurora’s degree College, Telangana University, Hyderabad, March 24-25, 2022.

Resource person, Science Academies’ Virtual Lecture Workshop on Proteins-Structure, Function and evolution, entitled “Molecular recognition in signal transduction with the example of Glycoprotein Hormone, Follicle Stimulating hormone (FSH)-cognate Receptor interaction” Telangana University, Dichpally – Nizamaba, Feb 23-24, 2022.

LE STUDIUM Visiting Researcher award, from LE STUDIUM Scientific Council, LE STUDIUM LoireValley Institute for Advanced Studies 1, rue Dupanloup-45000 Orléans, France, 2021-2022.

Chairperson DBT- INDO-UK Newton Bhabha Fund for research collaborations from 2018 - 2021.

Expert Member, Board of Studies (BOS), University of Kashmir, Srinagar (J &K), 2021 onwards.

Expert Member, Board of Studies (BOS), Indira Gandhi National Tribal University, Amarkantak (M.P.), 2019 onwards.

Governing Body Member, Dr. B R Ambedkar College, Delhi University, 2021-2022.

Provost, North Eastern House for Women, Delhi University, Feb. 2018-March 2021

Convener, Societal science initiative on Reproductive health and hygiene in villages adopted by University of Delhi under Unnat Bharat Abhiyan for in collaboration with Department of Social work, University of Delhi 2019-onwards.

Expert Member, Committee for recruitments and promotions in Ministry of environment,

forest and climate change, New Delhi, 2018-2021.

Prof. Mallikarjun Shakarad

Chairman (Officiating), Vidyalaya Management Committee, KendriyaVidhayalaya (Under Ministry of HRD, Govt. of India), INA Colony, New Delhi-110023, India, October 2019-August 2022.

Prof. Alok Chandra Bharti

Member, Homeopathic Pharmacopoeia Committee, Pharmacopoeia Commission of Indian Medicine and Homeopathy, Ghaziabad, Uttar Pradesh, India

Observer, National Testing Agency (2020)

Member Institutional Ethics Review Board-Jawaharlal Nehru University Since Dec 2020

Reviewer of Funding Agencies: Department of Biotechnology (Govt. of India); Department of Science and Technology (Govt. of India); Indian Council of Medical Research, (Govt. of India); Council of Scientific and Industrial Research, (Govt. of India); Central Council of Research in Homeopathy (AYUSH, Govt. of India); Technology Development Board, (Govt. of India); Kerala State Council for Science, Technology & Environment

Prof. Alok Chandra Bharti

Member, Homeopathic Pharmacopoeia Committee, Pharmacopoeia Commission of Indian Medicine and Homeopathy, Ghaziabad, Uttar Pradesh, India

Observer, National Testing Agency (2020)

Member Institutional Ethics Review Board-Jawaharlal Nehru University Since Dec 2020

Reviewer of Funding Agencies: Department of Biotechnology (Govt. of India); Department of Science and Technology (Govt. of India); Indian Council of Medical Research, (Govt. of India); Council of Scientific and Industrial Research, (Govt. of India); Central Council of Research in Homeopathy (AYUSH, Govt. of India); Technology Development Board, (Govt. of India);Kerala State Council for Science, Technology & Environment



Publications

Research Articles

Sharma J.G., Singh M.K., Chakrabarti. (2022). Evaluation of UV-B ameliorating properties of indigenous plants ashwagandha *Withania somnifera* (Dunal), amla *Emblica officinalis* (Gaertn) and prickly chaff flower *Achyranthes aspera* (L.) supplemented diets in prior UV-B exposed catla *Catla catla*. *Frontiers in Marine Science*.

Kumar N., Sharma J., Mittal, P., & Chakrabarti, R. (2022). Effect of leaves and seeds of *Achyranthes aspera* as feed supplements on the immunological and stress parameters and related gene expressions of Asian catfish (*Clarias batrachus*). *Veterinary Research Communications*, 1-11.

Kumar G., Sharma J., Goswami, R. K., Shrivastav, A. K., Tocher, D. R., Kumar N., & Chakrabarti, R. (2022). Freshwater Macrophytes: A Potential Source of Minerals and Fatty Acids for Fish, Poultry, and Livestock. *Frontiers in nutrition*, 9.

Sharma J., Kumar N., Mittal, P., & Chakrabarti, R. (2022). Evaluation of UV-B protective properties of leaves and seeds of *Achyranthes aspera* in Asian catfish *Clarias batrachus* (Linn.). *Photochemical & Photobiological Sciences*, 1-16.

Goswami, R. K., Sharma J., Shrivastav, A. K., Kumar G., Glencross, B. D., Tocher, D. R., & Chakrabarti, R. (2022). Effect of *Lemna minor* supplemented diets on growth, digestive physiology and expression of fatty acids biosynthesis genes of *Cyprinus carpio*. *Scientific reports*, 12(1), 1-13.

Shrivastav, A. K., Kumar G., Mittal, P., Tocher, D. R., Glencross, B. D., Chakrabarti, R., & Sharma J. (2022). Effect of Greater Duckweed *Spirodela polyrhiza* Supplemented Feed on Growth Performance, Digestive Enzymes, Amino and Fatty Acid Profiles, and Expression of Genes Involved in Fatty Acid Biosynthesis of Juvenile Common Carp *Cyprinus carpio*. *Frontiers in Marine Science*, 10.

Aditi, K., Singh A., Shakarad, M. N., & Agrawal, N. (2022). Management of altered metabolic activity in *Drosophila* model of Huntington's disease by curcumin. *Experimental Biology and Medicine*, 247(2), 152-164.

Nagar S., Talwar, C., Motelica-Heino, M., Richnow, H-H., Shakarad, M., Lal, R., Negi RK. (2022). Microbial Ecology of Sulfur Biogeochemical Cycling at a Mesothermal Hot Spring Atop Northern Himalayas, India. *Frontiers in Microbiology*, 13(0),13.

Sunita, Singh Y., Beamer, G., Sun, X., & Shukla, P. (2022). Recent developments in systems biology and genetic engineering toward design of vaccines for TB. *Critical Reviews in Biotechnology*, 42(4), 532-547.

Aditi, K., Singh A., Shakarad, M. N., & Agrawal, N. (2022). Management of altered metabolic activity in *Drosophila* model of Huntington's disease by curcumin. *Experimental Biology and Medicine*, 247(2), 152-164.

Dhankhar, J., Agrawal, N., & Shrivastava, A. (2022). Pan-neuronal expression of human mutant huntingtin protein in *Drosophila* impairs immune response of hemocytes. *Journal of Neuroimmunology*, 363, 577801.

Desai, A. S., Singh A., Edis, Z., Haj Bloukh, S., Shah, P., Pandey, B., ... & Bhagat, N. (2022). An In Vitro and In Vivo Study of the Efficacy and Toxicity of Plant-Extract-Derived Silver Nanoparticles. *Journal of Functional Biomaterials*, 13(2), 54.

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Sharma J., Singh A., Begum, A., Krishna, V. H., & Chakrabarti, R. (2021). The impact of



Achyranthes aspera seeds and leaves supplemented feeds on the survival, growth, immune system and specific genes involved in immunostimulation in Clarias batrachus fry challenged with Aeromonas hydrophila in pond conditions. *Fish & Shellfish Immunology*, 118, 11-18.

Kumar N., Sharma J., Kumar G., Shrivastav, A. K., Tiwari, N., Begum, A., & Chakrabarti, R. (2021). Evaluation of nutritional value of prickly chaff flower (Achyranthes aspera) as fish feed ingredient. *The Indian Journal of Animal Sciences*, 91(3), 239-244.

Sharma K., & Shakarad, M. N. (2021). Fitness consequences of biochemical adaptation in Drosophila melanogaster populations under simultaneous selection for faster pre-adult development and extended lifespan. *Scientific reports*, 11(1), 1-10.

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Singhvi, N., Singh P., Prakash, O., Gupta, V., Lal, S., Bechthold, A., ... & Lal, R. (2021). Differential mass spectrometry-based proteome analyses unveil major regulatory hubs in rifamycin B production in Amycolatopsis mediterranei. *Journal of Proteomics*, 239, 104168.

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maturation: Influence of gonadotropin-releasing hormone, gonadotropin release-inhibiting factor and dopamine receptors in the catfish, Heteropneustes fossilis. *Journal of Applied and Natural Science*, 13(2), 686-699.

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Singh A., & Agrawal, N. (2021). Metabolism in Huntington's disease: A major contributor to pathology. *Metabolic Brain Disease*, 1-15.

Kashyap, A., Tripathi, G., Tripathi, A., Rao, R., Kashyap, M., Bhat, A., ... & Kashyap, M. K. (2022). RNA splicing: a dual-edged sword for hepatocellular carcinoma. *Medical Oncology*, 39(11), 1-31.

Bhat, A., Yadav, J., Thakur, K., Aggarwal, N., Chhokar, A., Tripathi, T., ... & Bharti, A. C. (2022). Transcriptome analysis of cervical cancer exosomes and detection of HPVE6* I transcripts in exosomal RNA. *BMC cancer*, 22(1), 1-16.

Verma, G., Aggarwal, N., Chhakara, S., Tyagi, A., Vishnoi, K., Jadli, M., ... & Bharti, A. C. (2022). Detection of human papillomavirus infection in oral cancers reported at dental facility: assessing the utility of FFPE tissues. *Medical Oncology*, 39(1), 1-16.

Singh T., Chhokar, A., Thakur, K., Aggarwal, N., Pragma, P., Yadav, J., ... & Chandra Bharti, A. (2021). Targeting Aberrant Expression of STAT3 and AP-1 Oncogenic Transcription Factors and HPV Oncoproteins in Cervical Cancer by Berberis aquifolium. *Frontiers in pharmacology*, 12, 757414.

Aggarwal, N., Yadav, J., Chhakara, S., Janjua, D., Tripathi, T., Chaudhary, A., ... & Bharti, A. C. (2021). Phytochemicals as Potential Chemopreventive and Chemotherapeutic Agents for Emerging Human Papillomavirus-Driven Head and Neck Cancer: Current



Evidence and Future Prospects. *Frontiers in Pharmacology*, 12.

Bhat, A., Yadav, J., Thakur, K., Aggarwal, N., Tripathi, T., Chhokar, A., ... & Bharti, A. C. (2021). Exosomes from cervical cancer cells facilitate pro-angiogenic endothelial reconditioning through transfer of Hedgehog–GLI signaling components. *Cancer cell international*, 21(1), 1-15.

Books/Chapter in Books

Sharma J. G., Chakrabarti, R. (2022). The ultraviolet-B (UV-B) radiation, a potential threat to the aquatic organisms and its mitigation. *Frontiers in Aquaculture Biotechnology*.

Yadav, J., Aggarwal, N., Chaudhary, A., Tripathi, T., Baruah, D., Chhakara, S., ... & Bharti, A. C. (2022). Role of Exosomes in Tumor Induced Neo-Angiogenesis.

Research Projects

Department of Biotechnology (DBT), 2021-2024, Evaluation of effect of macrophytes-based feed on the growth, gut physiology, expression of specific genes involved in the biosynthesis of DHA & EPA and production of quality freshwater fishes., Rs.93,17,040;

Department of Biotechnology (DBT), 2018-2022, Dissemination and Demonstration of Fish Culture Technology among Women Self Help Groups in NCR Region of Delhi as a Self Employment Activity., Rs.57,57,000

Department of Science & Technology (DST), 2020-2023, Integrated farming of Lates calcarifer and Macrobrachium rosenbergii in Aquaponic System: A Sustainable Water Utilization Approach., Rs.76,30,459;

Department of Science & Technology (DST), 2018-2022, Investigation of the role of exosomes in cervical cancer angiogenesis and endothelial cell conditioning., Rs.35,00,000;

Department of Science & Technology (DST), 2019-2022, DNA barcoding of Ecologically and

Economically Important Ichthyofauna of River Beas, Himachal Pradesh, India., Rs 36,99,360

ICMR; 2021-2024: Polycystic ovary syndrome: 2021-2024, Impact of gonadotropin hormone imbalance: its consequences for maternal and the infant health., Rs. 84,00,000;

ICMR; 2021-2024, Unravelling possible role of asprosin in male reproduction: hormonal correlation with asprosin and its receptor in mice., Rs. 1,36,17,720

ICMR-ICRC; 2022-2024, HPV Flow-FISH: development of innovative single molecule RNA (smRNA) detection, flowcytometry-based quantitative and diagnostic assay for detection of transcriptionally active high risk-HPV infections., HPV Flow-FISH: development of innovative single molecule RNA (smRNA) detection, flowcytometry-based quantitative and diagnostic assay for detection of transcriptionally active high risk-HPV infections.

ICMR; 2018-2021, Investigation of Molecular Mechanisms of STAT3-mediated Regulation of HPV Infection and Cervical Carcinogenesis., Rs. 34,00,000;

CCRH; 2021-2022, Identification of Homoeopathic Formulations with Anti-Cervical Cancer and Anti-HPV Activity., Rs. 40,70,000

NBAIM/AMAAS, 2017-2022, 11. To study the microbial diversity associated with fish gut by using culture–dependent and independent approaches., Rs 32,52,300

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”, Rs. 170,83,970;

IAEA, 2017-2022, Field-deployable Analytical Methods to Assess the Authenticity, Safety and Quality of Food in India., Euro30,000;



Faculty Research Program under IoE Grant, 2021-2022, Ontogeny of ovarian follicular asprosin activities in mice, Rs. 3,00,000;

Faculty Research Program under IoE Grant, 2021-2022, The study of impact of plant-based feeds on the performance of common carp *Cyprinus carpio.*, Rs 3,00,000;

Faculty Research Program under IoE Grant, 2021-2022, Evaluation of Neutrophils as potential target for immunomodulation in cancer therapeutics., Rs.3,00,000;

Faculty Research Program under IoE Grant, 2021-2022, To study the interaction of Groundnut Bud Necrosis Virus (GBNV) encoded GN protein with the Cathepsin-L protein of its vector *Thrips palmi.*, Rs.3,00,000;

Faculty Research Program under IoE Grant, 2021-2022, Evolution of Immune Response in *Drosophila melanogaster* under selection for faster development and extend life-span., Rs 3,00,000;

Faculty Research Program under IoE Grant, 2021-2022, Unraveling the cellular and molecular mechanisms implicated in dysregulated immune system in *Drosophila* model of Huntington's disease., Rs 3,00,000;

Faculty Research Program under IoE Grant, 2021-2022, Development of Cancer Stem Cell-targeted Therapy against Cervical Cancer., Rs 3,00,000;

Faculty Research Program under IoE Grant, 2021-2022, Insights into the fish gut microbiome "The second genome of the fish., Rs 3,00,000;

Seminars/Conferences organized

Prof. Alok Chandra Bharti, Prof., (UGC-SAP-CAS), "Deciphering Bioregulatory Mechanisms in Health & Disease using 'omics' approach", 2022, February 25.

Prof. Yogendra Singh Prof., Jaypee Institute of Information Technology (JIIT), "International

Conference on Advances in Biosciences and Biotechnology", 2022, February 01.

Prof. Rita Singh Prof., ISSRF, Impact of high LH levels on Glucose uptake and storage in granulosa cells, implications in the pathogenesis of polycystic ovary syndrome, 2022, February 13.

Prof. Rita Singh Prof., SRBCE, invited speaker, biased signaling of FSHR in granulosa cells and physiopathology of PCOS, 2021, December 30.

Prof. Rita Singh Prof., Indian Fertility Society (IFS), Invited Speaker, Genetics/Epigenetics of Recurrent Implantation failure in women with PCOS, 2021, August 06.

Prof. Rita Singh Prof., Indian Fertility Society (IFS), Invited Speaker, Environmental contributions to subfertility in women with PCOS, 2021, March 15.

Prof. Anju Shrivastava, Prof., Reclaiming the hostile savior: resetting the cross-talk between immune and cancer cells can ameliorate disease pathology., Reclaiming the hostile savior: resetting the cross-talk between immune and cancer cells can ameliorate disease pathology., 2022, June 16.

Prof. Alok C. Bharti, Prof., International RMBPD Colloquium, "Deciphering Bioregulatory Mechanisms in Health and Disease using 'Omics' Approach", 2022, February 15.

Prof. R. K. Negi, Prof., 2nd International Colloquium, 2nd International Colloquium on Deciphering Bioregulatory Mechanisms in Health and Disease using Omics Approach, 2022, February 25.

Prof. R. K. Negi, Prof., (ICMCESA-2022), International conference on mitigating environmental issues, 2022, February 25.

Prof. R. K. Negi, Prof., Marine Fish Genetic Resources Centre, Kochi, Workshop on cutting edge technology in fisheries and aquaculture for food and nutritional security, 2021, December 13.



Seminar/Conference (National/International) Presentations

Presented in conferences in Department of Zoology (March 2021 and Feb, 2022)

Presented in “International Conference On Advances In Biosciences And Biotechnology” Jan 2022 at “Jaypee Institute of Information Technology (JIIT), Noida”

Invited lecture Impact of high LH levels on Glucose uptake and storage in granulosa cells, implications in the pathogenesis of polycystic ovary syndrome, 32nd Annual Meeting of the ISSRF along with the International Conference on Reproductive Healthcare held during, 2022, February 11-13.

Invited speaker, biased signaling of FSHR in granulosa cells and physiopathology of PCOS, National Conference on Reproduction and Endocrinology, 30th December- 2021, organized by SRBCE at Mysore University from, 2021, December 28-30.

Invited Speaker, Genetics/Epigenetics of Recurrent Implantation failure in women with PCOS in a Webinar organized by Indian Fertility Society (IFS) on, 2021, August 06.

Invited Speaker, Environmental contributions to subfertility in women with PCOS in a Webinar conference on Environmental Toxins: Where are we heading? organized by Indian Fertility Society (IFS), 2021, March 15.

Prof. Anju Shrivastava

Plenary lecture in National Seminar organized by Department of Zoology, Reclaiming the hostile savior: resetting the cross-talk between immune and cancer cells can ameliorate disease pathology.

Arunachal Pradesh on 2022, June 16 on the occasion of 25 years celebrations. Title: Reclaiming the hostile savior: resetting the cross-talk between immune and cancer cells can ameliorate disease pathology.

Prof. Alok C. Bharti

2nd International RMBPD Colloquium on “Deciphering Bioregulatory Mechanisms in Health and Disease using ‘Omics’ Approach” was held at Department of Zoology, University of Delhi from, 2022, February 24-25. The conference had 11 sessions in which 19 invited speakers gave their talks, 11 students presented their papers in oral presentations. Topics such as Cancer Causation and Biomarkers, SARS-CoV and Omics, Host-Pathogen Interaction, Behavior and Chronobiology, Cancer Heterogeneity and management, Genetics, Epigenetics and Directed Evolution were covered. Scientists actively engaged and devoted to these topics were invited from around the world to share the platform in hybrid mode. The conference had 2 memorial lectures; one memorial lecture dedicated to late Prof. M.L. Bhatia, entitled as ‘Covid Pandemic: The Inside Story’ and was delivered by the Chief Guest of the colloquium Dr. Anurag Agrawal, Director, CSIR-Institute of Genomics and Integrative Biology, New Delhi, India; the other memorial lecture was dedicated to late Prof. C.P. Alexander, and was presented by Dr. Ravindra Chandra Joshi, a senior consultant at Philippine Rice Research Institute on the topic ‘Challenges and New Strategies to manage invasive rice pests in the changing climate: The Philippine Experience’. A lecture was given by the sponsors of this colloquium; Premas Life Sciences Pvt. Lt., presented by Dr. Nityan and Sharma on the topic ‘High Throughput Single Cell and Spatial genomics for resolving the heterogeneity of cancer’. The format of conference on all the three days encouraged students and young faculty of the University of Delhi to get familiar with speakers and also to present their papers in form of oral and poster presentations.

Prof. R. K. Negi

2021-22 Invited talk: 2nd International Colloquium on Deciphering Bioregulatory Mechanisms in Health and Disease using Omics Approach organized by Department of Zoology University of Delhi from 2022, February 24-25. Chaired session: International conference on mitigating environmental issues by sustainable approaches (ICMCESA-2022) organized by



Acharya Narendra Dev College, University of Delhi 2022, February 25.

2021-2022 Invited talk: Workshop on cutting edge technology in fisheries and aquaculture for food and nutritional security (CETFAQ-2021) organized by Marine Fish Genetic Resources Centre, Kochi from 13th to December, 2021.

Other Inter-Institutional Collaborations

Serving as an expert reviewer for Russian Science Foundation, Solyanka Str., Moscow since 2018.

No. of Students under Exchange Programme

Training Programme: Pre-conference workshop on Genomics Data analysis (23rd February, 2022) during International Colloquium on “Deciphering Bioregulatory Mechanisms in Health & Disease using ‘omics’ approach” Jointly organized with Prof. Alok Chandra Bharti

Training Programme: Resource person in Session VII during Online Short-Term

Certificate Course (under the aegis of IQAC) in Bhaskaracharya College of Applied Sciences, University of Delhi on 31-10-2021.

Extension and Outreach Activities

Organized a Training Programme on “Machli Palan Ka Prashikshan” (Training on Fish Farming) in Hindi at farmers’ door step - Village Abupur, Muradnagar, Ghaziabad, UP during November 27-28, 2021.

Organizer: Prof. Rina Chakrabarti

Link for the Training Programme:

https://drive.google.com/file/d/1huwZOJ-WhD_FDI_zqXPpETbAdKGCLHVo/view?usp=sharing

Faculty Strength

15

Number of Ph.D. Degrees Awarded

22

Number of M.Phil. Degrees Awarded

2



Faculty of Social Science

Department of Adult, Continuing Education and Extension

Brief History

The Department is part of the Faculty of Social Sciences since 1985. It has its beginning in 1978 as a Cell. The Department offers M.A. in Lifelong Learning & Extension, M. Phil Programme and Ph.D.

Major Activities and Achievements

Department of Adult, Continuing Education a full-fledged Department offering M.A., M.Phil. and Ph.D. since 1984 revised its curriculum, developed MoU with Hungry and Gandhigram Rural Institute. It has undertaken a series of National Level programs on National Education Policy 2020 and Transgender involving National Level resource persons and the UGC officials. It has also developed MoU with Plan India in the Community mobilization.

Honours/Distinctions

Prof. Rajesh, HOD is acknowledged National Level expert of Transgender by the Government and was shortlisted to attend the interaction for the post of Vice-Chancellor in Jharkhand University.

Publications

Research Articles

Yadav, Rahul. (2021). Vocational education through Jan Shikshan Sansthan (JSSs): A study of JSS Jahangirpuri and Ghaziabad, Indian Journal of Adult Education (IJAE), 82(2), 52-61.

Rajesh. (2021). Yoga: Enhancing well-being of younger and older generation. Indian Journal of Psychological Science, 12, 129-138.

Jethuri, Ankita & Rajesh. (2021). Disability Laws in India. Journal of Emerging Technologies and Innovative Research, 8, 65-174.

Jethuri, Ankita & Rajesh. (2021). Teachers attitude towards the disabled students of

their class. Journal of Emerging Technologies and Innovative Research, 8, 158-164.

Rajesh & Singh Akansha. (2021). Integration of transgender in Indian society. Indian Journal of Adult Education, 82(1), 52-67.

Rajesh & Mishra, Geeta. (2021). From margins to mainstreaming of transgender community in India. Indian Journal of Lifelong Learning and Educational Guidance, 5, <https://indianjournalofille.com/vol-5-march-2020/from-margins-to-mainstreaming-of-transgender-community-in-india/>

Gupta, Vishal Kumar & Rajesh. (2021). The study of educational health care and welfare schemes for transgender in District North Delhi. Indian Journal of Lifelong Learning and Educational Guidance, 3.

Rajesh, Kappu, Santosh Kumar. (2021). Strength and weakness of skill development program in unorganized sector of NCR Delhi. Journal of Advanced Educational Research, 2, 1029-1033.

Anand, Nitish & Rajesh. (2021). Innovation and opportunities to the marginalized group in India: Sharing experiences of community learning centre. Journal of Adult Education.

Rajesh & Anand, Nitish. (2021). Paradigm of social defence and elderly population in India. Social Defence, NSID, Ministry of Social Justice & Empowerment.

Pandy, Ritu, Chadha, N. K., Rajesh. (2022). Elderly care in Indian culture context. Indian Journal of Psychological Science (Special Issue), 13, 01.

Dubey, J. P. (2021), Contract farming status and effect on socio-economic, psychological and social characteristics of farmers in Assam. (second author with Debahash, B.). Journal of



Community Mobilization and Sustainable Development, 16(1), 105-111.

Arora, Donika & Sisodia, Vandana. (2021). A study on educated consumer behavior and perception towards organic food product in New Delhi. *Indian Journal of Adult Education*, 14-30.

Books/Chapter in Books

Yadav, Rahul. (2021). *Vocational competence for underprivileged*. Delhi, Manak Publication.

Research Projects

Institute of Eminence, DU, 2021, Integration of Transgender in Higher Education, 3.50 Lacs

Seminars/Conferences organised by the Department

Punjab University, Chandigarh, Road Map for the implementation of NEP 2020 and Lifelong Learning in Higher Education, 2021, June 15.

National Level webinar on Interdisciplinary Higher Education under New Education Policy 2020 on, 2021, June 11.

National webinar on Leveraging the Role of Higher Education in Lifelong Learning & Extension for sustainability: An Analysis with the Scope of New Education Policy 2020 on, 2021, May 28.

National Resource Person (invited lecture) for Aganwadi Workers of Delhi in collaboration with women and child Development, Government of Delhi on Transgender Act 2019 on, 2021, May 31.

National webinar on interdisciplinarity in Higher Education under New Education Policy 2020 on, 2021, June 11.

Seminar/Conference Presentations (National/International)

Prof. K. Partsarthy, Dr. Veerendra Mishra, Vice Chancellor Tamil Nadu Open University Director, National Institute of Social Defense (NISD), Webinar on "Mainstreaming

Transgender Persons in Higher Education", 2021, March 12.

Prof. S.Y Shah, Prof. Rajesh, Director-IIALE HOD/Senior Prof., DACEE, DU, "International Organizations and Lifelong Learning", 2021, April 19.

Prof. Soren Ehler, Denmark Prof. Vandana Chakrabarti, Prof. L. Raja, Prof. S.Y Sha, Prof., Former VC SNTD University, Director and Head Gandhigram Rural Institute Tamil Nadu, Director, IIALE, "Leveraging the Role of Higher Education in Lifelong Learning & Extension for Sustainability: An Analysis within the Scope of New Education Policy" 2020, 2021, May 28.

Dr. Shankar Chaudhary, Former Consultant, UNESCO Expert in Community & Mental Health, "Adolescent Reproductive Health & Rights", 2021, July 12.

Prof. Pankaj Arora, Prof. Vandana Chakrabarti, Director, ILL and DSW, DU, Former VC SNTD Women's University, Mumbai, "Lifelong Learning Policy in Higher Education: Drawing Perspectives from New Education Policy 2020", 2021, July 22.

Prof. Rajesh, HOD/Senior Prof., DACEE, DU, "Provisions of the Transgender Persons (Protection of Rights) Act, 2019". Initiative was part of the collaboration with National Institute of Social Defence (NISD) under the Ministry of Social Justice and Empowerment, Government of India., 2021, December 08.

Prof. N.K Ambust, Prof. V. Mohan Kumar Former Pro. VC NIOS, Former Director IAEA Delhi, "Sustainable Digital Literacy and Numeracy - Role of the Department of Adult", Lifelong Learning & Extension in Higher Education Institutions, 2021, December 23.

Prof. P.C. Joshi, VC Prof. Balaram Pani, Dean of Colleges and Dr. Vikas Gupta, Registrar, University of Delhi Officials, University of



Delhi, International Literacy Week 2021, 2021, September 13.

National/International MoUs Signed

MOU for academic collaboration University of Pécs, Hungary (International).
Gandhi Gram Rural Institute (National)
Plan India for Internship (National)

Other Inter-Institutional Collaborations

The Department has Institutional collaborations with Indian Adult Education Association and International Institute of Adult, Lifelong Learning.

No. of Students under Exchange Programme:

04

Extension and Outreach Activities: 15

Faculty Strength: 06

Number of Ph.D. Degrees Awarded: 04

Number of M.Phil. Degrees Awarded: 10

Other Significant Information

Active linkages and partnership have been formed with Indian Adult Education Association (IAEA), Delhi State AIDS Control Society (DSACS), National Institute of Social Defence (NISD) under Ministry of Social Justice & Empowerment, Ministry of Education, Department of Social Welfare, SCERT and DIETs. DACEE has developed 'Memorandum of Understanding' with two rural government colleges/departments in Madhya Pradesh (Govt. College Alote, Ratlam and Govt. Arts, Science and Commerce College, Nagda) and one government college/department in Tamil Nadu (Gandhigram Rural Institute, Dindigul District).

For international cooperation, an agreement has been signed with Julius Maximilians University of Wuerzburg, Germany. Accordingly, Winter School and Autumn School are held annually. The programme was initially supported by DAAD but now it is a major activity supported by UGC. DACEE also has

active partnership networks with International Institute of Adult & Lifelong Education (IIALE). Recently, a MOU for academic collaboration was signed with University of Pécs, Hungary.

Several educational films such as 'Daughter is born', 'Sati system' and basic health were developed and shown on Doordarshan channel under 'Ghar aur Bahar' programme. The outreach and promotional activities were held at various Universities in Lucknow, Meerut, Faizabad, Kanpur and Kurukshetra. The Ministry of Health and Family welfare provided a five day training programme on peripheral level training focussed on HIV and AIDs coordinated by Dr. Rajesh (with technical support from Maulana Azad Medical College Preventive Health and Medicine). The unique and socially relevant programs included 'Family Health Awareness Camp' supported by Delhi Government, Drug Abuse Prevention, Elderly Persons Education and Extension by National institute of Social Defence. Human resources of the Department are also actively engaged with evaluation of various organisations where interventions with NACO and other voluntary organizations are prominent ones. Also, the Department is known for providing counselling related skills at different academic levels. Alumni are professionally working as Counsellors / Mentors/ Career Coaches/ in various governmental and non-governmental organizations. The Department has worked closely for the transgender community since 2013.

'Transgender Resource Centre', operated under the guidance of Prof. Rajesh helps the trans persons by providing support in the form of counselling, training, capacity building, research/networking opportunities, partnership building and national & international level collaborations. A series of interventions have been carried out to ensure their well-being. These include: Understanding the roles & responsibilities of various stakeholders in Transgender Act 2019; Social inclusion of the third gender; Inclusion of third gender in New Education Policy 2020; Inclusion of word 'Transgender' in policy documents &



its implications; Gender and development in lifelong learning; Integration of transgender in family and society; Translating the Trans Act; and many more.

DACEE has organized a series of 'Drug Abuse and Prevention' programme in partnership with many colleges of DU with full support of National Institute of Social Defence (NISD), Ministry of Social Justice & Empowerment, Government of India. The Department with the support of planning unit, organized a series of 'Capacity & Life Skills' programme for SC, ST & OBC students in Delhi University colleges/departments which included training of around 500 students/scholars. It has also regularly conducted several blood donation camps in partnership with Delhi Government.

Various community outreach activities were conducted on World Population Day, World AIDSDay, World Mental Health Day, International Women's Day, International Labour Day & International Literacy Day/Week with support of the Vice-Chancellor, Dean of Colleges, Director - South Campus and the Registrar - University of Delhi. DACEE has adopted a community in Nehru Vihar, Jagatpur

for which active contribution is done by faculty and scholars.

The Department has adopted the Sustainable Development Goals 2030 and regularly carries out broad interventions in the following areas as well:

Adult and Lifelong Learning in India, Art and Science of Adult and Lifelong Learning in the Middle Ages, Developing Lifelong Learning in the Middle Years of Schooling, Schools and Lifelong Learning Institutions, Role of Information Technology, Gerontology and Lifelong Learning, Youth Leadership and Social Change through Lifelong Learning, Participatory Training and Research through Lifelong Learning, Curriculum Development in Lifelong Learning, Global Innovations in Lifelong Learning, Happiness Curriculum under Lifelong Learning, Population and Development in Education, Evaluation and Monitoring in Lifelong Learning, Field Techniques & Community Outreach in Lifelong Learning, Human Resource Development, Planning and Administration of Social Activities.



Department of African Studies

Brief History

The Department of African Studies is part of the Faculty of Social Sciences of the University of Delhi. It was established in December 1954 at the personal initiative of Pt. Jawaharlal Nehru. He inaugurated it formally on August 6, 1955 with a mandate to promoting awareness about Africa. The Department undertakes multi-disciplinary teaching and research leading to M.Phil. and Ph.D. Degrees of the University of Delhi along with Certificate and Diploma in Swahili Language. The Department provides a forum for fostering mutual understanding, friendship and cooperation between peoples of India and Africa. Thus, the mandate of the Department extends beyond its primary function of acquisition and dissemination of knowledge to promotion of India-Africa relations.

Major Activities and Achievements

Commemorating Azadi ka Amrit Mahotsav or the 75th Year of Indian Independence a seminar on "Practical Approach to Research Methodology" was organised on 16.02.2022, speakers included Prof. Kheswar Jankee & Prof. Sanjay Kataria, Guest of Honour Dr. Vikas Gupta, Registrar, D.U.

A seminar on "Humanitarian Assistance in African Countries" was organised on 03.03.2022, speakers included Mrs. Maria Soledad Rueda & Mr. Anil Kishore Yadav, Guest of Honour Prof. Balram Pani, Dean of Colleges, D.U.

A seminar on "Development and Standardization of Survey Questionnaire" by Prof. N.K. Chadha was held on 11.03.2022.; Seminar on Ethiopia, Africa and the G4 as a part of Celebration of the "Azadi ka Mahotsav" by Dr. Tegegne Teka on 24.03.2022. Celebration of "Nelson Mandela International Day" By H.E. Joel Sibusiso Ndebele High Commissioner, Republic of South Africa on 19.07.2022.

Publications

Research Articles

Singh Gajendra. (2021). Changing biomass management trends in rural haryana- Reviewing the trends in a village. Bengal, Past and Present, 139(2), 16-28.

Singh Gajendra. (2021). Educational status of street children: A comparative study of Botswana and India. Indian Journal of Adult Education, 82(1), 41-51.

Kapoor, Rashmi. (2021). Female labour force participation in India and South Africa: An analysis. Shodh Sanchar Bulletin, 11(4), 117-124.

Kapoor, Rashmi. (2021). Future prospects of changing water-sharing issues in the Nile River in the context of Egypt and Ethiopia. International Journal of Research and Analytical Reviews, 3(8), 162-166.

Dash, Sandipani. (2022). Introduction of structural adjustment program in Ghana: A dichotomy between a structured economy and an elected polity. International Journal of African Studies, 1(2), 1-9.

Dash, Sandipani. (2021). Ideational narrative of resurging India: Vasudhaiva Kutumbakam as the edifice of being Vishwa Guru. Itihas Darpan, 26(1), 145-153, NA

Kumar Suresh. (2021). Future of India-East Africa Relations. Diplomatist Extraordinary and Plenipotentiary. 8, 9.

Books/Chapter in Books

Kapoor, Rashmi. (2021). Contextualising global peace in Indian and African cultures. Delhi, Akhand Publishing House.

Kumar Suresh. (2021). Drivers of socioeconomic development and underdevelopment in Moroccan Sahara. Singapore, Springer.

Kumar Suresh. (2021). Instilling self-sustainment: The key survival strategy amid the pandemic. Singapore, Springer.



Seminars/Conferences organised by the Department

Mrs. Maria Soledad Rueda & Mr. Anil Kishore Yadav, Humanitarian Assistance in African Countries, 2022, March 03.

Prof. Kheswar Jankee & Prof. Sanjay Kataria, Practical Approach to Research Methodology, 2022, February 16.

H.E. Joel Sibusiso Ndebele, High Commissioner, Republic of South Africa, Nelson Mandela International Day, 2022, July 19.

Seminar/Conference (National/International)

Kapoor, Rashmi. India's Foreign Policy and Health Diplomacy in Africa, Paper presented in Two day (online) National Seminar on India's Foreign Policy at

Presentations

75: Issues and Challenges organised by the Department of Political Sciences, Janki Devi Memorial College, University of Delhi, held from 2022, April 06-07 Co-presented 2022, April 07.

Kapoor, Rashmi. Gender Differences in Labour Force Participation Rate in India. Paper presented in Two Days National Seminar on '75 Years of Independence: Achievements, Challenges and opportunities' organised by Modern College of Professional Studies, Mohan Nagar, Ghaziabad, held on 2022, April 08-09 Co-presented on 9th April.

Faculty Strength: 05

Number of Ph.D. Degrees Awarded: 08

Number of M.Phil. Degrees Awarded: 20

Department of East Asian Studies

Brief History

The Department of East Asian Studies began in 1964 as the Centre of Chinese Studies. The Centre grew into the Department of Chinese and Japanese Studies in 1969 and became the Department of East Asian Studies in 2001. The Department offers three post graduate courses: an M.A. in East Asian Studies, an M.A. in Japanese Language and Literature and an M. Phil and Ph.D. in East Asian Studies. The postgraduate courses in the Department focus on an interdisciplinary approach to the study of the region. Research students in the Department are required to learn one of the three East Asian languages. The Department also offers full time and part time language courses in Chinese, Japanese and Korean which are open to students in its degrees as well as to students in other courses of study and those who wish to pursue the study of an East Asian Language.

Major Activities and Achievements

Number of (International & National) Seminars: 18
Foreign Scholarships bagged by students: 4
Number of talks given by teachers: 14

Department student got selected in Indian Civil Services Examination

Students selected in Central Government Services: 2
Classes held by dispatched Japanese Teacher: 12

Number of Scholarships for students: LG, Hana, Mitsubishi

Seminars/Conferences organised by the Department

Santosh Kumar Gupta, Associate Prof. & Head of Center for East Asian Studies, AUH North Korean and Inter-Korean Relations. 2022, March 28.

Satyanshu Srivastava Assistant Prof., Centre for Korean Studies, JNU, Current status and future aspect of Korean studies in India. 2022, January 10.

G. Balatchandirane, Retired Prof. of Department of East Asian Studies, University of Delhi, Recent migration of Indians: potential impact on Japan. 2021, September 06.

National/International MoUs Signed:

MoU between University of Delhi and Taipei Economic and Cultural Centre, Delhi.



MoU between University of Delhi and National Chung Cheng University, Taiwan, R.O.C.

Other Inter-Institutional Collaborations

Centre for Policy Research, New Delhi.

Institute of Chinese Studies, New Delhi.

Institute of Peace and Conflict Studies, New Delhi.

Placement Details (Placement Details):

3 students of the department got placement.

Faculty Strength: 27 (Permanent) + 3 (Honorary)

Other Significant Information:

Ms. Rashi Chaudhary got gold medal in M.A. Japanese course.

Department of Economics

Brief History

The Delhi School of Economics is one of India's premier institutes of higher learning. The school was launched in 1949 by V.K.R.V. Rao, with the support of Prime Minister Jawaharlal Nehru. It grew out of a vision that a newly independent nation, which aspired to social and economic progress, needed a vibrant centre for advanced studies in the social sciences. The department of economics, along with its sister departments of geography and sociology, has produced many of the country's leading academics, educators, administrators, policy makers, corporate leaders and journalists. Nobel Laureate Amartya Sen, Prime Minister Manmohan Singh and the late Sukhamoy Chakravarty, one of the architects of India's Five-Year Plans, have all taught here.

Major Activities and Achievements

During the period April 2021 to March 2022, members of the department 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. Some faculty members actively publish op-ed articles in addition to publishing in academic journals. They also participated in policy debates through writings in popular journals and produced two well-regarded economic forecasts. The department continues to be a UGC Centre of Advanced Study; a distinction it holds since 1965. For the ninth successive year, it has also been 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>). The Department publishes the journal, founded by

University of Delhi: 99th Annual Report 2021-22

Prof. V. K. R. V. Rao, Indian Economic Review since 1952.

The Department offers MA, M.Phil. and Ph.D. programmes. In 2021-22, 330 students were admitted in M.A. programme, and 5 and 11 students enrolled in M.Phil. and Ph.D. programme respectively. A regular colloquium was organised for M.Phil. and Ph.D. students, at which research students presented their work in progress. 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

Bhattacharjea, Aditya: Distinguished Fellow (Non-Resident, Honorary) Indira Gandhi Institute of Development Research (IGIDR).

Gupta, Shreekant: President, Indian Society for Ecological Economics Somanathan, Rohini; Fellow of the Econometric Society; Fellow of the International Economics Association (IEA) .

Dua, Pami: Nishtha Dhriti Satyam Samman, University of Delhi, 2021 (highest honour); Distinguished Fellow (Non-Resident, Honorary) Indira Gandhi Institute of Development Research (IGIDR).

Publications

Research Articles

Bhattacharjea, Aditya. (2021). Labour market flexibility in Indian manufacturing: A critical survey of



- the literature, 2000–2014. *International Labour Review*, 160(2), 197-217.
- Bhattacharjea, Aditya. (2021). Predatory pricing in India, *CPI Antitrust Chronicle*, 1(1), 40-45.
- Bhattacharjea, Aditya. (2022). Neither crime nor (much) punishment: India's cartel penalty practices, forthcoming in Kaushik Basu and Ajit Mishra, (eds), *Law and Economic Development: Behavioral and Moral Foundations of a Changing World*, Palgrave Macmillan, (forthcoming).
- Dua, Pami. (2021). Regime shifts in the behaviour of international currency and equity markets: A markov-switching analysis. *Journal of Quantitative Economics*, 19(1), 309-336.
- Dua, Pami. (2021). Inflation persistence in India. *Journal of Quantitative Economics*, 19(3), 525-553.
- Gupta, Anish. (2022). COVID-19 and market failure: An Indian experience. *Economic and Political Weekly*, 57(8), 54-60.
- Gupta, Anish. (2022). The history of segregation and the politics of industrial unrest in Tamil Nadu.
- Gupta, Anish. (2021). Fiscal space and union budget 2020-21. *Economic and Political Weekly*, 56(21).
- Gupta, Shreekanth. (2022). Introduction and Framing Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press. doi: 10.1017/9781009157926.003.
- Gupta, Shreekanth. (2022). Summary for Policymakers. Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press. doi: 10.1017/9781009157926.001.
- Kumar Surender. (2021). CO2 Mitigation and Employment: Evidence from India. *Data Envelopment Analysis Journal* (forthcoming).
- Kumar Surender. (2021). Environmental management practices and financial performance: Evidence from large listed Indian enterprises. *Journal of Environmental Planning and Management*, 65(1), 37-61.
- Kumar Surender. (2021). Towards sustainable agriculture (organic farming): Economics, policy and practices by Hari Ram Prajapati, 45.
- Kumar Manish. (2021). Concept of development and hegemonic world order. *Economic and Political Weekly*, 56(44), 30-32.
- Kumar Manish. (2021). On some aspects of rural labour in India at the current juncture. *Labour and Development*, 28(2), 59-80.
- Kumar Manish. (2021). Smallholders in the rice value chain of Bangladesh and India, Chirstoph, S., & Karatepe, I. (Eds). *The Phantom of Upgrading in Agricultural Supply Chains: A Cross-Country, Cross-Crop Comparison of Smallholders*. Baden Baden: Nomos Verlagsgesellschaft, 27-90.
- Maiti, Dibyendu. (2022). Political stability in West Bengal: Prosperity or decay? *Economic and Political Weekly*, 57(25).
- Maiti, Dibyendu. (2021). The COVID-19 pandemic: A deadly threat to human livelihoods and development. *Progress in Development Studies*, 21(4), 335-339.
- Maiti, Dibyendu. (2021). The enigma of trade creation or diversion: Decomposition of regional trade flows: A study of small island economies in the Caribbean and the South Pacific. *Journal of Asian Economic Integration*, 3(2), 1-24.
- Maiti, Dibyendu. (2021). Economic system, viral outbreaks, and the crisis. *A Journal on Science and Society*, 22(1).
- Paramjit *et.al.* (2021). Efficiency assessment of sewage treatment plants for treating wastewater: Case study of Narela sewage treatment plants in Delhi, India. In: Mishra, R.K., Singh R.B., Dubey, A. (eds) *Sustainable Climate Action and Water Management. Advances in Geographical and Environmental Sciences*. Springer New Delhi



Sarkar, Soumendu. (2022). The impact of trade with ASEAN on India's employment in the industrial sector. *Journal of the Asia Pacific Economy*, 1-23

Saini Swati. (2021). Optimal mechanism for land acquisition. *Review of Economic Design*, 26, 87-116.

Singh Ram. (2021). Equilibria under liability rules: How the standard claims fall apart. *Review of Law and Economics*, 17(1), 1-33.

Singh Ram. (2022). COVID-19 and contractual disputes in India: A law and economics perspective. *Economic and Political Weekly*, 56(16), 37-43.

Singh Ram. (2021). Settlements and resolutions under the insolvency and bankruptcy code: Assessing the impact of Covid-19. *The Indian Economic Journal*, 69(3), 568-583.

Somanathan, Rohini. (2021). The impact of temperature on productivity and labor supply: Evidence from Indian manufacturing. *Journal of Political Economy*, 126(6), 1797-1827.

Somanathan, Rohini. (2022). Language and learning in ethnically mixed communities. *Review of Development Economics*, 26(2), 835-846.

Somanathan, Rohini. (2022). Meritocracy and representation, *Journal of Economic Literature*. (forthcoming).

Books/Chapter in Books

Dua, Pami. *Macroeconometric Methods: Explaining complex techniques through applications to the Indian economy*, Springer Nature, Forthcoming.

Somanathan, Rohini. (2021). *Difference without domination: Pursuing justice in diverse democracies*. University of Chicago Press.

Seminars/Conferences organised

Prof. Stefan Voigt, University of Hamburg, *The Economics of Emergency Constitutions*, 2021, April 01.

Anirban Mukherjee, Calcutta University, *Economic Geography of Contagion: A Study on COVID 19 Outbreak in India*, 2021, April 08.

Deepti Goel, Azim Premji University, Bengaluru, *Drivers of Student Performance: Evidence from Higher Secondary Public Schools in Delhi*, 2021, April 23.

Kolmal Sahai, Indian Statistical Institute, Delhi, *What Can(not) Explain the Gap? Evidence and Decomposition of Gendered Stream Choice in India*, 2021, July 08.

Jaideep Roy, (University of Bath and Shiv Nadar University), *Democracy and the Marginalised*, 2021, July 22.

Kadambari Prasad, Vice President, Compass Lexecon), *To talk or not? Competitive Effects of Information Exchange between Market Makers*, 2021, July 29.

Sandra Mortal and Vishal Gupta, University of Alabama, *Gender and Managerial Job Mobility: Career Prospects for Executives Displaced by Acquisitions*, 2021, August 05.

Pallavi Choudhuri (NCAER) & Sonalde Desai, University of Maryland, *Lack of access to clean fuel and piped water and children's educational outcomes in rural India*, 2021, August 19.

Debopam Bhattacharya, University of Cambridge, *Incorporating Social Welfare in Program: Evaluation and Treatment Choice*, 2021, September 17.

Sam Asher, Johns Hopkins University, *The Long-run Development Impacts of Agricultural Productivity Gains: Evidence from Irrigation Canals in India*, 2021, October 01.

Ms. Mrinalini Jha and Mr. Rahul Lahoti, 1. Post-Doctoral Fellow, Azim Premji University) 2. Researcher, ETH Zurich, *Who was Impacted and How? Poverty and Inequality in Covid times in India*, 2021, October 28.

Anjali Priya Verma, Department of Economics, The University of Texas at Austin, *Disruptive Interactions: Long-run Peer Effects of Disciplinary Schools*, 2021, December 02.

Sujata Visaria, Hong Kong University of Science & Technology), *Clientelism and Ideology: The Rise of*



Hindu Nationalist Politics in a Former Left Stronghold, 2021, December 10.

Dr. Srishti Yadav, Department of Economics, University of Manitoba, Canada, Caste, Diversification, and the Contemporary Agrarian Question in India: A Field Perspective, 2021, December 30.

Rohit Azad, Jawaharlal Nehru, The Indian Green Deal, 2022, January 06.

Ruhi Sonal, IIT Jodhpur, 00, Sequential Entry and Perfect Equilibrium, 2022, January 13.

Devika Dutt, University of Southern California in Los Angeles, California, Exorbitant Privilege or Ultimate Responsibility: Access to the International Lender of Last Resort, 2022, February 10.

Ranjan Ray, Monash University, Australia, Can Cultural Links and Shared Language Transcend Country Divide? Evidence from West Bengal (India) and East Bengal (Bangladesh) on Fertility Rates, 2022, February 24.

Alex M. Thomas, Azim Premji University), 00, Economic Crises and/in Economics Education, 2022, March 17.

**Seminar/Conference Presentations
(National/International)**

Bhattacharjea, Aditya: "Economics of Multi-sided Platforms: Implications for Antitrust Enforcement", International Symposium on 'The Digital Economy and Competition Law', Bennett University, July 2021.

Dua, Pami: "Analysis of Synchronization of Cycles of BRICS Economies," BRICS Network University DSE-ISI Conference, November 2021.

Gupta, Shreekanth: "Impact of Climate Change on Indian Agriculture" at Centre for Social and Economic Progress (CSEP), New Delhi, February 2022.

Kumar Manish: "Agriculture Markets in Bihar: Constraints and Opportunities", Patliputra School of Economics, Aryabhatta Knowledge University, Patna, 2021, December 17.

Kumar Surender: "Big-tech Firms: emerging market conditions and regulations", Invited seminar, Chaudhari Bansi Lal University, Bhiwani, 2022, January 22.

Kumar Surender: "Getting to Net Zero: India's carbon mitigation strategy", Valedictory address, International Conference on Replenish, Restructure & Reinvent: Technology Fueled Transformation for Sustainable Future, Vivekananda Institute of Professional Studies, Delhi and College of Information Science and Technology, University of Nebraska, Omaha, USA, 2022, January 22.

Kumar Surender: "India's carbon mitigation strategy' National Symposium on Sustainable Development: Pathways to Save the Planet", BPS Mahila Vishwavidyalaya, Khanpur Kalan Sonipat, 2021, December 20

Kumar Surender: "Regression and Causality: some concerns in empirical research", Valedictory Address, Workshop on Econometric Methods for Economic and Business Research, Indian Institute of Technology, Roorkee, 2021, December 10.

Kumar Surender: "Modelling pollution generation: theory and empirics", Refresher Course in Economics, Jawaharlal Nehru University, New Delhi, 2021, September 28.

Kumar Surender: "Distributional heterogeneity in climate change impacts and adaptation: Evidence from Indian agriculture", Invited session on 'Effects of Climate Change on the Agricultural Sector and Potential for Adaptation' organised by Prof. Madhu Khanna, 31st Virtual International Conference of Agricultural Economics, International Association of Agricultural Economists, 2021, August 17-31.

Kumar Surender: "Economics of Climate Change", Faculty Development Program, UGC-Human Resource Development Centre, Panjab University, Chandigarh, 2021, July 19.

Maiti, Dibyendu: "ICT for Wellbeing and Social Connectivity", World Summit on the Information Society Forum 2022, Geneva, 2022, April 13.

Maiti, Dibyendu: "Contemporary Challenges to Labour Relations in India", Organised by University of



Manchester (UK) and Daulat Ram College, 2022, April 09.

Maiti, Dibyendu: "Post-COVID Recovery and Long-run forecasting of Indian GDP with FECM", Bengal Economic Association, 2022, March 13.

Maiti, Dibyendu: "Digital India: Prospects and Challenges", Daulat Ram College, University of Delhi, 2022, February 26.

Maiti, Dibyendu: "Digitalising South Asia: Who Benefits", South Asia Centre, London School of Economics, 2021, October 28.

Maiti, Dibyendu: "Contemporary Issues of Indian Economic Development", Annual Conference, Bangiya Arthaniti Parishad and Acharya Jagadish Chandra Bose College, 2021, September 08.

Maiti, Dibyendu: "Ecological Fiscal Transfer", Indian Institute of Forest Management, Bhopal, 2021, August 13.

Other Inter-Institutional Collaborations

Under the umbrella of the BRICS Network University, the Delhi School of Economics, University of Delhi (Lead Institution in Economics in India) and the Indian Statistical Institute – Delhi Centre (Partner Institution) organized two Webinars in 2021 as follows:

BRICS Network University DSE-ISI Conference on Growth and Development in the BRICS Economies, November 12-13, 2021.

BRICS Network University DSE-ISI Conference on COVID-19 Pandemic and Revival Strategies of Global and BRICS Economies, August 10, 2021. This initiative of the BRICS Network University was a part of engagements that India hosted under the education stream during its Chairship of BRICS in 2021.

Placement Details (Placement Details)

Placement Details : 199 (78.34%)

Number of Companies visited for campus recruitment : 40

Extension and Outreach Activities

To make a difference in the lives of others in need, the students of the Department of

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Economics formed a social organization Prayaas-DSE in 2005. Prayaas-DSE has developed itself into a self-dependent and progressive organization.

Faculty Strength: 30

Number of Ph.D. Degrees Awarded: 11

Number of M.Phil. Degrees Awarded: 05

Other Significant Information:

Faculty members at the Department of Economics are also associated with Government organisations like RBI, Ministry of Small and Medium Enterprises, MoSPI, UGC etc and contribute to policy making in the country. They contribute also to institution building activities as some of them are on the governing bodies of institutes and trusts of national and international importance. Details are given below:

Aditya Bhattacharjea: Member, Board of Studies, Economics Division, Indian Institute of Foreign Trade (Deemed University), 2017 – present.

Anish Gupta: Visitor's nominee in the Court of University of Hyderabad; Member Executive Council (Visitor's nominee), University of Hyderabad.

Pami Dua: Member, Governing Council, Centre for Advanced Financial Research and Learning (CAFRAL); Member, Governing Council, Madras Institute of Development Studies; Member, Governing Body (Board of Management), Dayalbagh Educational Institute.

Shreekant Gupta,: Lead Author, Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report; Member, Academic Council, TERI School of Advanced Studies (Vice- Chancellor's nominee).

Surender Kumar: Member, Governing Body, School of Public Policy and Governance, University of Delhi, 09 December 2020 to 12 March 2022; University; Board of Governors, Institute of Economic Growth, Delhi, March 2019 to March 2022.

Dibyendu Maiti: Member, Core Group on Policy and EoDB for Ministry of Small and Medium Enterprises under the CII National MSME Council, since 2018; Associate Editor, Progress in Development Studies,



Sage, Sept 2018 – present; Honorary Prof., University of Fiji, Fiji Islands, 2022; Member, Board of Studies, Department of Humanities & Social Sciences at the LNM Institute of Information Technology, Jaipur, since April 2021.

Ram Singh: Member, Board of Governors, the Indian Institute of Corporate Affairs, Ministry of Corporate

Affairs, Government of India; Member, Board of Governors, Centre for Development Studies, Thiruvananthapuram; Chairman, Governing Body, Agriculture Economics Research Centre; Senior Fellow (Social Sciences), Institute of Eminence, University of Delhi.

Department of Geography

Brief History

The department traces its origin to October 1959, when under the initiative of Prof. V.K.R.V. Rao, the then Vice-Chancellor of the University and an eminent Economist, a Department of Human Geography was established as a constituent of the Delhi School of Economics. Prof. George Kuriyan, a renowned Geographer of India at that time, was the first Prof. and founder of the department. In 1966, Prof. V.L.S. Prakasa Rao took over from him and guided the department until 1973. Since then, the department acquired a name and a distinctive identity in India and abroad. It draws students from all over India as well as abroad.

Major Activities and Achievements

The Department leads in strengthening the discipline of Geography in India through its emphasis on inter-disciplinarity, Innovation, and Inclusiveness. The Department of Geography through its teaching and research activities aims to bridge the gap between the physical sciences and social sciences. Faculty members of the department have published research articles in impact factor and peer-reviewed journals this year, viz. *Water, Sustainability, Remote Sensing, Journal of Hydrology, Arabian Journal of Geosciences, Annals of the National Association of Geographers, India, Remote Sensing, etc.* The department is known for its expertise in Environmental Studies, Groundwater Hydrology, Remote Sensing/GIS, and Feminist Geography. The Department also received Special Assistance under UGC Research Support Programme DRS III (2013-18).

Our Department is among the top 150-200 in QS World Rankings 2021-22.

Honours/Distinctions

Prof. S.C. Rai: Member, of the Joint National Committee for International Union of Geodesy and Geophysics (IUGG) and International Geographical Union (IGU), Indian National Science Academy (INSA), Department of Science and Technology, Government of India, New Delhi, since December 2021.

Prof. S.C. Rai Nominated Honorary President of the Centre for Military Historical Geography of the Republic of Moldova for the Development of Moldovian-Indian Scientific Relations, since December 2021.

Publications

Research Articles

Mishra, Prabuddh Kumar Rai, Aman, Abdelrahman, Kamal, Rai, Suresh Chand, and Tiwari, Anuj. (2022). Land degradation, overland flow, soil erosion and nutrient loss in Eastern Himalaya, India. *Land*, 11(2), 179.

Gautam, Anant, Rai, S.C., Rai, S.P., Ram, Kripa, & Sanny. (2022). Impact of anthropogenic and geological factors on groundwater hydrochemistry in the unconfined aquifers of Indo-Gangetic plain. *Physics and Chemistry of Earth, Part A/B/C*, 126, 1. Pandey, Vijendra Kumar Kumar Rajesh, Singh Rupendra, Kumar Rajesh, Rai, Suresh Chand, Singh R.P., Tripathi, Arun Kumar Soni, Vijay Kumar Ali, S. N., Tamang Dakshina, & Latif, Syed Umar. (2022). Catastrophic ice-debris flow in the Rishi Ganga River, Chamoli, Uttarakhand (India). *Geomatics, Natural Hazards and Risk*, 13(1), 289-309.

Kumar Pawan, Rai, S.C., and Verma, Rahul. (2021). Evaluating the status of gross and net food availability in special reference to carrying capacity



of land of Sikkim. *Current Research in Environmental Sustainability*, 3, 100099.

Mishra, Prabuddh Kumar Rai, Aman, Abdelrahman, Kamal, Rai, S.C. and Tiwari, Anuj. (2021). Analyzing challenges and strategies in land productivity in Sikkim Himalaya, India. *Sustainability*, 13(19), 11112.

Gautam, Anant, Rai, S.C., and Rai, S.P. (2021). Assessment of groundwater quality beneath agriculturally advanced region of Northern Alluvial Plain, India, *Sustainability*, 13(13), 7053.

Choudhary, A.S., Singh P., Verma, P., and Rai, S.C. (2021). Computation of groundwater recharge prospect in urban environment for sustainable water security. *Arabian Journal of Geosciences*, 14(7), 606.

Kumari, M. and Rai, S. C. (2021). Analysis of temperature and precipitation trends in Southern Haryana. *Annals of National Association of Geographers, India*, 41(2), 219-233.

Mondal B, Saha A.K. & Roy A. (2021). Spatio-temporal pattern of change in mangrove populations along the coastal West Bengal, India. *Environmental Challenges*, 5, 100306, 1-13.

Mondal B, Saha AK & Roy A. (2021). Shoreline extraction and change estimation using geospatial techniques: a study of coastal West Bengal, India. *Proceedings of the Indian National Science Academy*, 4, 87, 595-612.

Mondal B, Roy A & Saha AK, (2022), Vulnerability assessment of mangrove areas in coastal West Bengal, India. *Remote Sensing Applications: Society and Environment*, 25, 1-17.

Shikha Yadav, Subhash Anand and Vinod Kumar Mayala. (2021). Assessment of reusing wastewater for sustainable agriculture irrigation system in Delhi, India, *AIP Conference Proceedings*, 2417.

Ganesh Yadav, R. B. Singh Subhash Anand, B. W. Pandey, Ashutosh Mohanty & Sushree Sangita Dash. (2021). Ecological model analysis of respiratory health risk factor by ambient air pollution in Lucknow, the capital city of Uttar Pradesh. *GeoJournal*, 4, 86.

Aparna Bera, Ajay Kumar Taloor, GowharMeraj, Shruti Kanga, Suraj Kumar Singh Bojan Āurin, Subhash Anand. (2021). Climate vulnerability and economic determinants: Linkages and risk reduction in Sagar Island, India - A geospatial approach. *Quaternary Science Advances*, 4, 1-11.

Ekta Raman, Subhash Anand, Madha V. Suresh, Poonam Sharma Anju Singh Suraj Kumar. (2021). Traffic congestion in Azadpur Mandi: A study on the largest vegetables and fruits market of Asia. *Geography, Environment, Sustainability*, 14(1), 122-131.

Pankaj Gautam, Subhash Anand, Harish Kumar. (2021). Mapping the land use and land cover changes and hydrological regime of Rishikesh City in Uttarakhand using geo-spatial techniques. *Innovations*, 64(4), 859-865.

Mishra, Martand Mani, Sahu Netrananda, Pandey, B.W. and Singh R.B. (2021). Assessing human health vulnerabilities in the blocks of Kalahandi district of Odisha, India. *Disaster Advances*, 14(4), 32-40.

Nishit, B.W. Pandey, Subhash Anand & Harish Kumar. (2021). Demographic transformation, landuse change and its environmental implications in Kotla -Mubarakpur, New Delhi. *Indian Journal of Spatial Science, (Special Issue)*, 299-38.

Bindhy Wasini Pandey, Yuvraj Singh Usha Rani, Roosen, Archana Singh & Rikta Pal. (2021). Geographical analysis of the first wave of Covid-19 with reference to highland and lowland regions of India. *National Geographical Journal of India (NGJI)*, 67(3), 263-281.

B. W. Pandey, Yuvraj Singh Roosen Kumar Pushalal Ganesh, Riktapal and Madhusudan Ghosh. (2021). Anthropogeographic analysis of Covid-19 among the EAG states and top Covid 19 affected states of India. *The Eastern Anthropologist*, 74(2), 219-240.

Muzamil Ahmad Rather, Gowhar Meraj, Majid Farooq, Bashir Ahmad Shiekh, Pankaj Kumar Shruti Kanga, Suraj Kumar Singh Netrananda Sahu, Surya Prakash Tiwari. (2022). Identifying the potential dam sites to avert the risk of catastrophic floods in the Jhelum basin, Kashmir, NW Himalaya, India. *Remote Sensing*, 14(7), 1538.



Aparna Bera, Gowhar Meraj, Shruti Kanga, Majid Farooq, Suraj Kumar Singh Netrananda Sahu, Pankaj Kumar. (2022). Vulnerability and risk assessment to climate change in Sagar Island, India. *Water*, 14(5) 823.

Saini Atul, Sahu, Netrananda, Duan, W, Kumar M., Avtar, R., Mishra, M., Kumar P., Pandey, R. and Behera, S. (2022), Unraveling intricacies of monsoon attributes in homogenous monsoon regions of India. *Frontiers in Earth Science*, 10(30), 794634.

Rakesh Kumar Arun Jyoti Nath, Amitabh Nath, Netrananda Sahu, Rajiv Pandey,. (2022). Landsat-based multi-decadal spatio-temporal assessment of the vegetation greening and browning trend in the Eastern Indian Himalayan Region. *Remote Sensing Applications: Society and Environment*, 25(1)
<https://doi.org/10.1016/j.rsase.2022.100695>

Md Masroor, Ram Avtar, Haroon Sajjad, Pandurang Choudhari, Luc Cimusa Kulimushi, Khaled Mohamed Khedher, Akinola Adesuji Komolafe, Ali P Yunus, Netrananda Sahu. (2022). Assessing the influence of land use/land cover alteration on climate variability: An analysis in the Aurangabad District of Maharashtra State, India. *Sustainability*, 14(2), 642.

Sridhara Nayak, Suman Maity, Netrananda Sahu, Atul Saini Kuvar Satya Singh Hara Prasad Nayak, Soma Dutta. (2022). Application of “observation minus reanalysis” method towards LULC change impact over Southern India. *ISPRS International Journal of Geo-Information*, 11(2), 94.

Megha Shyam, Gowhar Meraj, Shruti Kanga, Majid Farooq, Suraj Kumar Singh Netrananda Sahu, Pankaj Kumar. (2022). Assessing the groundwater reserves of the Udaipur District, Aravalli Range, India, using geospatial techniques. *Water*, 14(4), 648.

Kesar Chand, Jagdish Chandra Kuniyal, Shruti Kanga, Raj Paul Guleria, Gowhar Meraj, Pankaj Kumar Majid Farooq, Suraj Kumar Singh Mahendra Singh Nathawat, Netrananda Sahu, Raj Kumar. (2021). Aerosol characteristics and their impact on the Himalayan energy budget. *Sustainability*, 14(1), 179.

Yanan Hu, Weili Duan, Yaning Chen, Shan Zou, Patient Mindje Kayumba, Netrananda Sahu. (2021). An integrated assessment of runoff dynamics in the Amu Darya River Basin: Confronting climate change and multiple human activities, 1960–2017. *Journal of Hydrology*, 603 Part 9A), 126905.

Martand Mani Mishra, Netrananda Sahu. (2021). Spatiotemporal distribution and trend analysis of waterborne diseases in Kalahandi District of Odisha, India. *Journal of Communicable Diseases*, 53(4), 23-28.

Netrananda Sahu, Martand Mani Mishra,. (2021). Assessing the vulnerability index of COVID-19 pandemic in India. *Geography, Environment, Sustainability*, 14(4), 131-139.

Sahu Netrananda and Mishra, Martand Mani. (2021). Ramification of global and local climatic variability on resurgent cases of dengue in Delhi, India. *Disaster Advances*, 14(7), 32-41.

Sachchidanand Singh Harikesh Singh Vishal Sharma Vaibhav Shrivastava, Pankaj Kumar Shruti Kanga, Netrananda Sahu, Gowhar Meraj, Majid Farooq, Suraj Kumar Singh. (2021). Impact of forest fires on air quality in Wolgan Valley, New South Wales, Australia—a mapping and monitoring study using google earth engine. *Forests*, 13(1), 4.

Manoranjan Mishra, Dipika Kar, Manasi Debnath, Netrananda Sahu, Shreerup Goswami. (2021). Rapid eco-physical impact assessment of tropical cyclones using geospatial technology: a case from severe cyclonic storms Amphan. *Natural Hazards*, 110(3), 2381-2395.

Arun Jyoti Nath, Rakesh Kumar N. Bijayalaxmi Devi, Rocky Pebam, Krishna Giri, U.K. Sahoo, Raj Kumar Bajpai, Netrananda Sahu, Rajiv Pandey,. (2021). Agroforestry land suitability analysis in the Eastern Indian Himalayan region. *Environmental Challenges*, 4, 100199.

Atul Saini Netrananda Sahu. (2021). Decoding trend of Indian summer monsoon rainfall using multimethod approach. *Stochastic Environmental Research and Risk Assessment*, 35, 2313-2333.



Martand Mani Mishra, Netrananda Sahu, B.W Pandey, R.B. Singh. (2021). Assessing human health vulnerabilities in the blocks of Kalahandi district of Odisha, India. *Disaster Advances*, 14(4), 32-40.

Pankaj Kumar Rajarshi DasGupta, Shalini Dhyani, Rakesh Kadaverugu, Brian Alan Johnson, Shizuka Hashimoto, Netrananda Sahu, Ram Avtar, Osamu Saito, Shamik Chakraborty, Binaya Kumar Mishra,. (2021). Scenario-based hydrological modelling for designing climate-resilient coastal water resource management measures: lessons from Brahmani River, Odisha, Eastern India. *Sustainability*, 13(11), 6339.

Jamal Shahid, Ghosh Aratrika, Hazarika Rashmi and Sen Anjan. (2022). Livelihood, conflict and tourism: an assessment of livelihood impact in Sundarbans, West Bengal. *International Journal of Geoheritage and Parks*, 10(3), 383-3999.

SenGupta, Soma and Sen Anjan. (2022). Re-creating Chandni Chowk: place-making and place-marketing of 'old' Delhi's historic city centre. *Indian Journal of Spatial Science*, 13(2), 47-53.

Rai Aditya Narayan, Sen Anjan and SenGupta, Soma. (2021). Re-imaging cities as a corporate brand: The place marketing and city branding of Ayodhya. *Indian Journal of Spatial Science*, 12(2), 22-27.

Singh Bhanwar Vishwendra Raj, Sen Anjan, Verma Lalit Mohan, Mishra, Ravi & Kumar Vinod. (2021). Assessment of potential and limitation of Jhamarkotra area: A perspective of geoheritage, geopark and geotourism. *International Journal of Geoheritage and Parks*, 9(2), 157-171.

Rahaman, S., Jahangir, S., Haque, M.S. et al. (2021). Spatio-temporal changes of green spaces and their impact on urban environment of Mumbai, India. *Environment, Development and Sustainability*, 23, 6481-6501.

Wu, F., Guo, N., Kumar P. and Niu, L., (2021). Scenario-based extreme flood risk analysis of Xiong'an new area in northern China. *Journal of Flood Risk Management*, 14(2), e12707.

Datta, Anindita. Joshi, Saakshi. Ajay, Bailey. (2021). On the move? exploring constraints to accessing urban mobility infrastructures. *Transport Policy* 102, 61-74.

Books/Chapter in Books

Aakash Upadhyay & Rai, S.C. (2022). Farmers' perception on impact of climate change and adaptive strategies in Sikkim Himalaya. In: *India II: Climate Change Impacts, Mitigation and Adaptation in Developing Countries*(eds.) Islam, Nazrul and Amstel, Andrevan, Springer, 279-299.

Roy, Dipankar, Kumari, Sobha, Mishra, A.K. and Rai, S.C. (2022). Social impact assessment of Indian water and allied policies and programs. In: *Resource Management, Sustainable Development and Governance: India and International Perspectives*, (eds.) Thakur, B., Thakur Rajiv, R Chattopadhyay, Sirkumar & Abhay, Rajesh Kumar Springer, 429-443.

Ram Kumar Mishra, Ch Lakshmi Kumari, Sandeep Chachra, P. S. Janaki Krishna, Anupama Dubey, R. B. Singh. (2022). *SWOT Analysis to Determine the feasibility of Guwahati smart city in North East India*. Singapore, Springer Nature, 301-316.

Bindhy Wasini Pandey, Subhash Anand. (2021). *Water science and sustainability*, Switzerland, Springer, 978-3-030- 57488-8, 01-255

Rajan Kumar Netrananda Sahu, Martand Mani Mishra,. (2022). *Geospatial analysis of Kosi river course from 1998 to 2018*. Springer, 423-442.

Netrananda Sahu, Martand Mani Mishra,. (2021). *Association and effects of ISMR and El Niño Southern Oscillation on Dengue outbreaks in India*. Springer, 157-166.

Singh Bhanwar V. Raj & Sen Anjan. (2022). *Assessment of tiger tourism in India: A case study of Ranthambore Tiger Reserve, Rajasthan, India*. Singapore, Springer, 317-327.

Kumar Krishna and Sen Anjan. (2022). *Socio-economic development in highway corridor zones of Bihar: Case study of Kuchai Kot – Muzaffarpur section*. Springer, 563-579



Husain, A., Kumar P. (2021). *Remote sensing and GIS-based morphometric analysis of Spiti River Basin*, Springer, 213-223.

Bhadwal, S., Verma, N., Kumar S., Kumar M., Kumar P. (2022). *Morphometric analysis and geohydrological inference of Bhilangna Drainage Basin, Uttarakhand (India) using remote sensing and GIS techniques*. Singapore, Springer, 403-422.

Datta, Anindita. (2021). *Gender, space and agency in India: Exploring regional genderscapes*, Oxon, New York, Routledge, 179.

Datta, Anindita. (2021). *Gender, urban spaces and gendered resistances: Towards inclusive and fear free cities in India in reflections on 21st century human habitats in India. Advances in 21st century human settlements*. Singapore, Springer, 327-346.

Aparajita De. (2021). *From religious festival to cultural carnival: Durga Puja and the City branding of Kolkata*. London and New York, Routledge, 107-124.

Aparajita De. (2021). *Urban restructuring, forced evictions and transition of the welfare city into entrepreneurial city: The case study of Bawana Resettlement Colony, Delhi*, London and New York, Routledge, 63-79.

Research Projects:

BWP: Institution of Eminence, University of Delhi, 2021-2022. *Assessing the Ambient Air Quality in Indian Mega Cities for Maintaining Urban Sustainability: A Case Study of Delhi*, 74,000.

BWP: ICSSR 2019-2021. *Assessing Human Adaptability for Building Policy Framework against Climate Variability in High Altitude Basins of Leh, India*, 16,00,000.

NS: University of Delhi, 2021-2022. *Impact of Climate Variability on Vector-Borne Disease in KBK Dist. Odisha, India*, 1,75,000.

NS: Indian Council of Social Science Research (ICSSR), 2022-2024. *Impact of Climatic Change and Anthropogenic Activities on Spring Disappearing: A Geo-Spatial Study on Issues of Water Security in Himachal Pradesh, India*, 9,00,000.

AS: Institution of Eminence, University of Delhi, 2021-22. *Place Making and Place-led Development in New Economic Spaces: The Re-imagining and Re-creation of Shahpur Jat vis-à-vis Hauz Khas Urban Villages*, Delhi, 1,71,250.

PK: Faculty Research Programme Grant-IoE, University of Delhi, 2021-2022. *Waterlogging Vulnerability Assessment and Mitigation Measures: A case study of North Delhi*, 1,75,000.

PK: Indian Council of Social Science Research (ICSSR), 2022-2023. *Evolving Adaptive Feed-forward Agricultural Practices (FFAP) for Climate Vulnerable Tribal Households of Cold Desert Region, Lahaul and Spiti District*, 7,50,000.

AD: Institute of Eminence, University of Delhi, 2021-22. *Women, Public Spaces and Urban Design: Gendered Cartographies and Corporealities in Pre-Colonial to Post Colonial Cities*, 1,75,000.

Seminars/Conferences organised

National Workshop on Teaching Geography was organised in collaboration with Gangadhar Meher University, Sambalpur, endorsed by the National Association of Geographers, India (NAGI) on 2021, December 17. Workshop Conveners: Dr. Kiran Bhairannavar Prof. Aparajita De (Dept. of Geography, University of Delhi) Dr. Arabinda Sharma Dr. Sibabrata Das (Dept. of Geography, Gangadhar Mehr University, Sambalpur).

Seminar/Conference (National/International)

Presentations

Kapoor, Rashmi. *India's Foreign Policy and Health Diplomacy in Africa*, Paper presented in Two day (online) National Seminar on India's Foreign Policy at 75: Issues and Challenges organised by the Department of Political Sciences, Janki Devi Memorial College, University of Delhi, held from 2022, April 06-07 Co-presented 2022, April 07.

Prof. S.C. Rai delivered an online keynote lecture in the First Workshop of Asian Young Geographers, organised by The Young Geographers Working Group (YGGWG) of the Asian Geographers Association, Beijing China on 2021, December 18-19.



Prof. S.C. Rai delivered an online lecture in the 10th International Conference on Earth Observations and Societal Impacts, organised by the National United University, Taiwan from 2021, August 23-24.

Prof. S.C. Rai delivered a lecture in National Webinar on Indian Geography: Trends and Implications, organised by IGS and Department of Geography, University of Madras, from 2021, July 29-31.

Prof. S.C. Rai delivered keynote lecture and chaired Technical Session in National Conference (Online) on Environment, Development, and Livelihood: Sustaining Earth and People, jointly organised by the Department of Geography, SPPU, Pune in association with the Institute of Indian Geographers (IIG) from 2021, June 10-12

B. W. Pandey, delivered a keynote address as a resource person on “Place Marketing & City Branding: Re-Inventing a Post-Industrial City Faridabad in 34th International Geographical Congress (IGC) 2021 titled 150th Year of IGC: Geography – Bridging the Continents, organised in collaboration with International Geographical Union (IGU) in Istanbul, Turkey, from 2021, August 16-21.

B. W. Pandey, delivered an address as a resource person on Sharing Economy, Digital Platforms, and Community of Digital Nomads: Studying the Workers in an On- demand Gig Economy in the International Conference 2022 on Just Sustainable Futures in an Urbanising and Mobile World, held at University College London (UCL), United Kingdom, from 2022, July 06-08.

B. W. Pandey, delivered an invited lecture on Opening Up Space for Sexualities in Geography at the Two-Week Online Refresher Course titled, Geography, Geographers and Geospatial Technologies: Impacting Physical, Social & Gendered Spaces 2021, organised by TLC, Ramanujan College in collaboration with Kirori Mal College, University of Delhi, from 22 November – 6 December 2021.

B. W. Pandey, delivered an address as a resource person on Human Rights, Space and LGBT Lives: A Queer perspective for an inclusive society at the ICSSR sponsored National Level Webinar on Violation of Human Rights and related Social Stigma against LGBT in Indian Subcontinent, held in the Department of Geography, Vidyasagar College, Kolkata from 30 September, 2021 – 1 October, 2021.

B. W. Pandey, delivered a lecture on Writing Social Stories, Thesis, Reports and Research Papers at the Workshop on Research Methodology for Social Sciences, organised by Council for Social Development, New Delhi on, 2021, May 14.

B. W. Pandey, delivered a lecture on Careers in Geography at the Department of Geography, Indraprastha College for Women, University of Delhi, Delhi on, 2021, April 30.

National/International MoUs Signed:

A Memorandum of Understanding (MOU) has been concluded between the Land Satellite Remote Sensing Application Center (LASAC), Ministry of Natural Resources of the People's Republic of China, and University of Delhi of for Cooperation in the Field of Geospatial Technology and Its Applications under DST-BRICS 'JVRIS' Research Project.

Other Inter-Institutional Collaborations:

Academic collaborations Between University of Delhi and Bath Spa University U. K., Himachal Pradesh University, Shimla, Himachal Pradesh. National Workshop on 'Teaching Geography' 15-17 Dec 2021 in Collaboration with Gangadhar Mehr University and National Association of Geographers, India (NAGI).

Faculty Strength: 11

Number of Ph.D. Degrees Awarded: 10

Number of M.Phil. Degrees Awarded: 06



Department of History

Brief History

Established in 1922, the Department of History was one of the Founding Departments of the University of Delhi. It is the largest History Department in India with the richest spread of M.A. courses in South Asian and World History. Our M.Phil. and Ph.D. students are globally respected for their unique scholarship and have published widely. Our faculty consists of graduates from some of the finest institutions in the world and our alumni have made a name for themselves not only in academia, but in journalism, law and public service as well. Over the years, its alumni have gone to become notable and renowned Intellectuals, Public Servants and Academics. The Department has long been at the forefront of Global and National Academia, with its faculty having been involved in the nurturing and running of prominent journals and institutions such as the Indian History Congress, one of the largest community of Historians in the world.

Major Activities and Achievements

One of the founding departments of the University, History Department is currently a Centre of Advanced Studies with 16 Prof.s, 4 Associate Prof.s, and 8 Assistant Prof.s. The faculty members are renowned as 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 a rare collection of miniatures, manuscripts and artefacts. Our M.A. and Ph.D. programmes are one of the most rigorous in India and three-five students annually secure full fellowships to top ranked international Universities. In spite of the tough Covid times, in 2021-22 our faculty gave online keynote addresses in National and International fora; and presented papers in many national- international Seminars. Our teaching, supervision and research commitments have met all the deadlines.

Honours/Distinctions

Dhar, Parul Pandya. 31 July 2021. First M.A. Dhaky Memorial Lecture on 'Temples, Architecture and Mobility: M.A. Dhaky's Legacy to Art Historical Scholarship', organized by the Center for Indo-Asian cultural studies and languages.

Dhar, Parul Pandya. 11 March 2022. 'Trans-oceanic Exchanges: Towards a Connected History of Cambodia and India', Sectional President Address, Countries other than India, West Bengal History Congress, Paschimbanga Itihas Samsad, 37th Session.

Gupta, Charu. 7 October 2021. 'Ishq and Censorship: Histories of Pleasure and Displeasure in Modern India'. Keynote Address at the Online Conference on 'Love, Sex and Data', organised by Agents of Ishq and the YP Foundation.

Gupta, Charu. 7 January 2022. 'Limits and Possibilities of Women's Education in Colonial India'. Keynote Address at a Virtual Symposium on 'Women's Education in India: A Situational Analysis', organised by ICC Cell, Maulana Azad National Institute of Technology, Bhopal. 7-8 January.

Gupta, Charu. 9 January 2022. 'Reimagining History: Gendering Colonial India'. Special Lecture at the 1st International Conference 2021, organised by Asiatic Society for Social Science Research. 7-9 January.

Gupta, Charu. 22 March 2022. Representing Sex and Sexuality in Hindi Print-Public Sphere of Early Twentieth Century. Invited Plenary Speaker in International Conference on 'Locating the Public Culture in Contemporary India: Theory and Practice', organized by Motilal Nehru College, University of Delhi. 21-23 March.

Jain, Shalin. 29 May 2021. Keynote Address, 'The Literary Representations and Jain Identities in Early Modern South Asia', at the Jain Studies Program organised by Florida International University, Miami, USA. (online)

Publications

Research Articles

Choudhary, Manisha. (2021). Changing area, shrinking spaces and struggling species: History of camels. *History and Sociology of South Asia*, 13(2), 93-111.

Choudhary, Manisha. (2021). The historical Thar desert of India. *Mediterranean Journal of Social Sciences*, 12(4), 78-88.



Choudhary, Manisha. (2021). Badalta shetr, simitata privesh aur sangharshrt prjaati: oonto ka itihaas. *Samajiki*, 77-92.

Govind, Rahul. (2021). Criminalizing unto death as act of judgment, act of war: The suicidal rationality of the death penalty. *Law Culture and the Humanities*.
<https://doi.org/10.1177/174387212111043231>.

Gupta, Charu. (2021). Hindu communism: Satyabhakta, apocalypses and utopian Ram Rajya. *The Indian Economic and Social History Review*, 58(2), 213-48.

Gupta, Charu. (2021). Vernacular communism: 'Marginal' history of Satyabhakta. *Economic and Political Weekly*, 56(23), 56-64.

Gupta, Charu. (2021). Jati ka ling, ling ki jati. *Prayag-Path*, 7 (2-4), 42-69.

Jain, Shalin. (2021). Religion and environment: Jains and habitat in medieval India. *Sramana: A Quarterly Research Journal of Jainology*, LXXII (II), 74-91.

Misra, Sanghamitra. (2021). The customs of conquest: Legal primitivism and British paramountcy in Northeast India. *Studies in History*, 37(2),
<https://doi.org/10.1177/025764302111042143>.

Rai, Santosh Kumar. (2021). Bhartiya Muslim samaj mein jati aur pritsatta. *Samajiki: A Peer Reviewed Magazine of Social Science and Humanities*, 47-60.

Sahu, Bhairabi Prasad. (2021). When it is time for an idea: Nodes, networks and the shaping of 'the idea of India' in early mediaeval times. *Economic and Political Weekly*, 56(26-27), 51-7.

Sahu, Bhairabi Prasad. (2021). The cult of Jagannatha and the shaping of the cultural region. *Pratistha (special edition of Nandighosha)*, 14, 28-31.

Shah, Shalini. (2021). Is Indian culture monolithic? A gendered study of ancient Indian tradition. *Sambhasana*, 2(1-2), 21-36.

Books/Chapter in Books

Arafath, Yasser. (2021). *Sultana's sisters: genre, gender, and genealogy in South Asian Muslim women's fiction*. Routledge.

Deshpande, Anirudh & Muphid, Mujawar. (2021). *The rise and fall of a brown water navy: Sarkhel Kanhoji Angre and Maratha sea power on the Arabian Sea in the 17th and 18th Centuries*. Delhi, Aakar Books.

Jafri, Saiyid Zaheer Husain. (2021). *Beyond the chronicles 'recovering' histories of the institutions and families [Persian Documents in India, 17th-19th Century]*, New Delhi, Gyan Publishing House.

Rai, Santosh Kumar. (2021). *Weaving hierarchies: handloom weavers in early twentieth century United Provinces*. New Delhi, Primus Books.

Bawa, Seema. (Ed.). (2021). *Locating pleasure in Indian history: prescribed and proscribed desires in visual and literary cultures*. Delhi, Bloomsbury.

Dhar, Parul Pandya. (Ed.). (2021). *The multivalence of an epic: retelling the Ramayana in South India and Southeast Asia*. Manipal, Manipal Universal Press.

Gupta, Charu. (Co-ed. with Laura Brueck, Hans Harder & Shobna Nijhawan). (2022). *Literary sentiments in the vernacular: gender and genre in Modern South Asia*. New York, Routledge.

Gupta, Vikas. (Co-ed. With Rama Kant Agnihotri & Minati Panda). (2021). *Education and inequality: historical and contemporary trajectories*. Hyderabad, Orient Black Swan.

Aquil, Raziuddin. (2021). Aashiq ko tow Allah na dikhlaai budhapa: Nazir Akbarabadi and the celebrations of the little pleasures of life in Urdu poetry. In Seema Bawa (Ed.). *Locating pleasure in Indian history: prescribed and proscribed desires in visual and literary cultures* (pp. 150-170). New Delhi, Bloomsbury.

Arafath, Yasser. (2021). The Wagon Massacre: Mappila Trains and Benthamian Prisons in British Malabar. In M.G.S. Narayanan, A.P. Kunjamu & K.E.N. Kunahammed (Ed.). *1921-2021: One*



Hundred Years of Kerala Muslims. Calicut, Vachanam Books.

Dhar, Parul Pandya. (2021). Reading architecture, constructing narrative: visualizing the Phanigiri Torana. In Naman P. Ahuja (Ed.). *Phanigiri: interpreting an ancient Buddhist site in Telangana* (pp. 152-185). Mumbai, Marg Publications.

Dhar, Parul Pandya. (2021). The Ramayana retold by sculptors and scribes in pre-Vijayanagara Karnataka. In Parul Pandya Dhar (Ed.). *The Multivalence of an epic: retelling the Ramayana in South India and Southeast Asia* (pp. 20-48). Manipal, Manipal Universal Press.

Farooqui, Amar. (2021). Some aspects of education and knowledge formation in nineteenth-century Delhi. In Vikas Gupta, Rama Kant Agnihotri, Minati Panda (Eds.). *Education and Inequality: Historical and Contemporary Trajectories* (pp. 211-224). Hyderabad, Orient BlackSwan.

Farooqui, Amar. (2021). *The opium trade*. Chicago (Online).

Gupta, Charu. (2021). Indentured women and Hindi print-public sphere in early twentieth century India. In Kalpana Hiralal and Maurits S. Hassankhan Farzana Gounder, Amba Pande (Eds.). *Women, gender, and the legacy of slavery and indenture* (pp. 101-20). London, Routledge.

Gupta, Charu. (2021). *Indradhanush ka neela rang: Santram BA, jati, vivah aur sex* [The blue in a rainbow: Santram BA, caste, marriage and sex] (pp. 87-119). Prayagraj, Lokbharati Prakashan

Gupta, Charu. (2022). *Utkrisht aur Baazaar: Hindi Sahitya aur Ashlilta Vivaad ke Cheente* (pp. 136-161). Delhi, Ananya Prakashan.

Sahu, Bhairabi Prasad. (2021). *Facets of the caste system in early India: changing forms of expression, communication and its spread* (pp. 70-83). Los Angeles-London-New Delhi.

Research Projects

Institute of Eminence, University of Delhi, Nov. 2021 to Mar. 2022, 'The History of Water'.

Institute of Eminence, University of Delhi, Nov. 2021 to Mar. 2022, 'Fashioning a Hindu Nationalist: Vernacular Freedom and Ascetic Masculinity in Satyadev Parivrajak's Autobiography'. (Rs. 175000).

Institute of Eminence, University of Delhi, Nov. 2021 to Mar. 2022, 'Cultures of Knowledge, Skill and Labour: Handloom Weavers in Twentieth Century United Provinces, India', (Rs. 175000).

Seminars/Conferences organised by the Department

Dr. Nonica Datta (JNU), JNU, "Jallianwala Bagh", 2021, July 02.

Dr. Nisha P.R., Yale University, "Jumbos and Jumping Devils: A Social History of Indian Circus", 2021, July 07.

Prof. Bhaswati Bhattacharya, Goettingen, Germany, "Coffee, Tea and Urban Socialisation: Indian Coffee House 1940-1970", 2021, July 14.

Prof. Aloka Parasher Sen, Hyderabad, "Social Formation and Settlements of the Early Deccan", 2021, July 19.

Prof. Tanuja Kothiyal, Ambedkar University, Delhi, "Salt and Sovereignty in Colonial India", 2021, July 28.

Dr. Kashshaf Ghani, Nalanda University, "Many Receptions of Sufism in Medieval Bengal", 2021, August 04.

Prof. Farhat Nasreen, Jamia Millia Islamia, "The Great Mughals", 2021, August 18.

Prof. Max Deeg, Cardiff University, On the Xuanzang Trail: An Interdisciplinary Reading of the Record of the Western Regions" – with a focus on Bihar (Magadha)", 2021, August 25.

Dr. Ranjeeta Dutta, JNU, "Reconfiguring Religion and Urbanity: Differential Spaces and Shared Access in the Temple Town of Srirangam", 2021, September 01.

Dr. Luther Obrock, University of Toronto, Mississauga, "Kings Fall Apart: The Dissolution of



Sovereignty and the Problem of History in Sanskrit Literature", 2021, September 08.

Speakers: Prof. Seema Bawa, Prof. Shalini Shah, Prof. Charu Gupta, and Prof. Farhat Nasreen, Department of History, DU, Webinar on "Locating Pleasure in Indian History", 2021, September 17.

Robert de Caroli, "Remodeling, Repair, and Renovation at Kanheri and the Buddhist Caves of the Western Deccan", 2021, September 22.

Dr. Chinmay Tumbe, IIM-Ahmedabad, "Migration and Pandemics", 29-09-2021.

Prof. Vasileios Syros, University of Cambridge, "The Problem of Dirty Hands in Ziya al-Din Barani and a Comparison with Arabic Political Thought", 2021, October 10.

Dr. Hilal Ahmad, CSDS Delhi, "Monuments and monumentalization: Making Sense of the Idea of Heritage in Postcolonial India", 2021, October 27.

Prof. Monika Zin, Leipzig University, Germany, "Tracing India on the Silk Road", 2021, November 10.

Dr. Sajjad Rizvi, University of Exeter, UK, "Two Schools of Metaphysics in Islamic Philosophy and their inheritance in 18th Century North India", 2021, November 17.

Dr. Madhumita SenGupta, Humanities and Social Sciences, IIT Gandhinagar, "Commercialization of

Bengali Food: A Case Study of Bengali Middle-Class Amnesia", 2021, November 24.

Prof. Jason Neelis, Wilfrid Laurier University, Waterloo, Ontario, Canada, "Capillary Networks for Long-Distance Trade and Cross-Cultural Transmission between South Asia and Central Asia", 2022, March 09.

Prof. Swadhin Sen, Jahangirnagar University, Savar, Dhaka, Bangladesh, "Archaeology of the 'Medieval' and the settlement patterns and processes in Bangladesh: Rethinking Hegemonic Discourses", 2022, March 16.

Dr. Riyaz Latif, FLAME University, Pune, "Decoding the Strange in Buzurg ibn Shahriyar's Kitab Ajaib al-Hind (Book of the Wonders of India)", 2022, March 23.

Research Scholars' Conference, Department of History, University of Delhi, "Despite the Pandemic: New Directions in Historical Research", 2022, March 31.

Seminar/Conference (National/International)

Presentations

Rai, Santosh Kumar. (2021, July 05). The —Nimble Fingers: Informal Child Labour in Handloom Industry of Twentieth Century Eastern Uttar Pradesh, in the online panel on Tackling Child Labour in the Global South, at the International EADI ISS Online Conference, 2021, July 5-8.

Rai, Santosh Kumar. (2021, August 26). Modernization of Networks and Handloom Weaving in early Twentieth Century North India', Second International Conference on Indian Business and Economic History, Indian Institute of Management, Ahmedabad (IIM-A), 2021, August 25-26. (Online).

Rai, Santosh Kumar. (2021, October 26). Crisis of Skill: Colonial Modernity and the Handloom Weavers in Northern India, in the Virtual International Conference on Crises organised by the Research Network Project Crises Redefined: Historical Continuity and Societal Change, University of Jyväskylä, Finland, 2021, October 26–27.

Rai, Santosh Kumar. (2021, November 13). Weaving lives at work: Apprenticeship Discourse in Early Twentieth Century India, in Online XIIIth International Conference on Labour History - Mapping Lives of Labour, organised by Association of Indian Labour Historians & V.V. Giri National Labour Institute in collaboration with the M.S. Merian Tagore International Centre of Advanced Studies, 2021, November 11-16.

Rai, Santosh Kumar. (2021, September 30). (I) —Mahatma Gandhi in Historiography; (II) —Gandhi: Studying a Cosmopolitan Modern Individual and His Times, 2 Lectures delivered in the Refresher Course in Research Methodology in Social Sciences, Govind Ballabh Pant Social



Science Institute, Prayagraj, 2021, September 19 - October 2 (Online).

Rai, Santosh Kumar. (2021, October 1). Mahatma Gandhi: A Cosmopolitan Leader and His Times, organised by Department of History, Satyawati College (Evening), University of Delhi.

Gupta, Charu. (2021, April 7). Dangers of Disease: Notes from Vernacular Histories of Caste & Gender in India. Invited Speaker in a Seminar on Contagion/Contact Zones/Untouchability, organised by Rutgers Center for European Studies, Rutgers University, USA. [online]

Gupta, Charu. (2021, April 9). Chair and Discussant in an International Workshop on Querying Childhood: Feminist Reframings, organised by ICAS: MP Metamorphoses of the Political.

Gupta, Charu. 2021, June 23). Can We Rethink Histories of Sexuality? Invited Speaker in Summer of Ishq/History, International Webinar Series, organised by Centre for Studies in Gender and Sexuality (CSGS), Ashoka University.

Gupta, Charu. (2021, July 17 July). Fashioning a Hindu|| Freedom: Vernacular Travelogues of Satyadev Parivrajak. Invited Paper in an Online International Symposium on Decolonizing Travel(ing) Theory: Explorations in the Indian Analytic Tradition, organized by Department of Humanities & Social Sciences, National Institute of Technology Silchar. 2021, July 15-17.

Gupta, Charu. (2021, November 15). Erotic, Hateful and Seditious: Proscription of Pleasurable, Communal and Communist Writings in Hindi Print. Invited Speaker in an Online International Conference on Proscribed Hindi Urdu Print and Colonial Historiography, organized by University of Hyderabad in Collaboration with CSDS. 2021, November 15-17.

Gupta, Charu. 2022, March 8). Scripting Gendered Histories of Modern India. Invited Special Guest Lecture in International Conference on Changing Gender Climates: Equality Today for Building a Sustainable Future Tomorrow, organized by Centre for Gender Studies, Patna. 2022, March 8-10.

Gupta, Charu. 2021, April). Resource Person and Invited Lecture on Vernacular Archives of Sexuality in Modern India, in Online Faculty Development Programme on Historiography and Research Methodology, organised by History Department, Hansraj College & Mahatma Hansraj Faculty Development Centre, 2021, April 19-24).

Gupta, Charu. (2021, April 24). Redeeming History: Archiving Gender in Colonial India. Talk in Two Day Webinar Series on Trends in Indian History Writing, organised by Sabhyata, History Society, Motilal Nehru College (Eve). 2021, April 23-24.

Gupta, Charu. 2021, June 13). Colonial India and Gender Historiography. Guest Speaker at Lecture Series (online), organised by Dashmesh Khalsa College, Muktsar, Punjab.

Gupta, Charu. (2021, September 8). Vernacular Histories of Sexuality in Modern India. Invited Speaker in a Webinar Series on Towards 75 Years of Independence, organized by Women 's Studies Centre, Jesus and Mary College, University of Delhi.

Gupta, Charu. (2021, September 15). Deconstructing Masculinities in Modern India. Invited Speaker in Women 's Studies & Development Centre Forum, University of Delhi.

Gupta, Charu. (2021, September 17). Invited Speaker at the Online Seminar & Book Launch of Seema Bawa (Ed.) Locating Pleasure in Indian History, organized by the Department of History, University of Delhi.

Gupta, Charu. 2021, October 19). Forbidden Vernacular Histories of Love, Sex and Pleasure in Modern India '. Invited Special Web Lecture, organized by Karwaan: The Heritage Exploration Initiative.

Gupta, Charu. 2022, March 10). Reflections on the Indian Historiography of Gender. Invited Speaker in Online Workshop, organized by Department of History, Atma Ram Sanatan Dharma College.

Gupta, Charu. 2022, March 10). Untouchable Other & Danger of Disease: Notes from Vernacular Histories of North India. Invited First



Lecture in 10th Mukta Salve Online Lecture Series on Stigma, Social Distancing and Pandemic: Disentangling Gender and Caste Dimensions, organized by Department of Women and Gender Studies, Savitribai Phule Pune University.

Jain, Shalin. (2021, August 25). The Cosmopolitan Portfolios in Early Modern South Asia: The Case of Jain Merchants, Second International Conference on Indian Business and Economic History, Indian Institute of Management, Ahmedabad (IIM-A), 2021, August 25-27. (Online).

Jain, Shalin. (2021, September 2). Histories of Shatrunjaya and Making of Jain Identity in South Asia, in the panel Yes, we Jain! Overcoming crises in the Jain Tradition, EASR 2021: 18th Annual Conference of the European Association for the Study of Religions (Pisa), 2021, August 30-3 September (Online).

Jain, Shalin. (2022, March 16). Jain Perceptions and Inter-Faith Negotiations in Mughal Times, in a three days International Conference on Inter-Faith Studies in Mughal Times: From Akbar to Dara Shukoh organised by the Department of History (Centre of Advanced Study), Aligarh Muslim University, 2022, March 14-16.

Farooqui, Amar. (2021, May 29). Food history, eateries and —dal makhana: Some aspects of Delhi cuisine in the making, c.1950s-1970s, Keynote Address to Social Geographies of Food, Two-day Virtual Young Graduate Meet 2021 organised by School of Humanities and Social Sciences, IIT Mandi.

Bawa, Seema. (2021, April 5). Reading Gandhi through his Images, Webinar: SHASHWAT- The History Society of Satyawati College, University of Delhi as part of its इतिहास मंथन series.

Bawa, Seema. (2021, April 8). Temples, Icons, Mohras: Western Himalayan Art, Religion and Rituals. Karwaan Special Lecture.

Bawa, Seema. (2021, April 22). Aspects of Early Indian Religion, FDP, Hansraj College, University of Delhi.

Bawa, Seema. (2021, July 24). Distinguished Speaker, Common Problems in Indian Iconography: Scope of Research, Heritage Society, Assam Circle, Guwahati, in collaboration with Centre for Historical Studies and Archaeology, Central University of South Bihar, Gaya.

Bawa, Seema. (2021, September 7). Narrative Tradition in Folk Art with special emphasis on Paitkar Paintings, Kirori Mal College, University of Delhi.

Bawa, Seema. (2021, September 17). Book Launch and Discussion on Locating Pleasure in Indian History: Prescribed and Proscribed Desires in Visual and Literary Cultures (Ed.) by Seema Bawa, Department Seminar, Department of History, University of Delhi.

Bawa, Seema. (2021, November 20). Early temple Architecture and Art, at workshop on Multiple Dimensions of Ancient Indian Culture, DAV PG College.

Aquil, Raziuddin. (2021, June 21). Literary and Historical Traditions in Medieval and Early Modern India, paper presented in the Symposium on History and Literature under Weblite Literature Series, Sahitya Akademi.

Aquil, Raziuddin. (2021, August 6). Literature and History in Medieval and Early Modern India, Shameer Memorial Lecture, Sree Sankaracharya University of Sanskrit, Kalady, (Online).

Aquil, Raziuddin. (2021, August). Historiography of Religious Interactions in Medieval and Early Modern India", in Refresher Course in History, Ramanujan College, University of Delhi, 2021, August 25 - September 7.

Aquil, Raziuddin. (2021, September 1). Fawa'id-ul-Fu'ad: Moral Teachings Benefitting the Heart, in Webinar on Religious and Historical Traditions in the Delhi Sultanate, Kalindi College, University of Delhi.

Aquil, Raziuddin. (2021, September 28). Transgressing Norms of Conduct? Satire as Gendered Critique of Political Culture in Late Mughal India, in Refresher Course in Gender Studies (Interdisciplinary), HRDC, Jamia Millia Islamia, New Delhi.



Aquil, Raziuddin. (2021, October 1). Fawa'id-ul-Fu'ad or Spiritual Teachings Benefiting the Heart: Significance of Sufism in the Sacred Geography of Hindustan, First Sanjay Kumar Memorial Lecture, Shyamlal College, University of Delhi.

Aquil, Raziuddin. (2021, October 8). Ze haale miskeen makun taghaaful: Social and Cultural Significance of Sufism in Medieval India, Bharati College, University of Delhi.

Aquil, Raziuddin. (2021, November 22). Political and Cultural Roles of Sufis in Medieval and Early Modern India, Webinar Series organised by Indian Institute of Science, Bengaluru.

Aquil, Raziuddin. (2021, November 27). Hazrat Nizamuddin Auliya's Defence of Sama and Qawwali at Sultan Ghiyasuddin Tughluq's Court, Sufi Kathak Foundation and India International Centre.

Arafath, Yaseer. (2021, May 25). The Earth Was Always Round and the Ocean was Dark: Science, Islam, and Some De-colonial Thoughts from British Malabar, Kerala Council for Historical Research (Online Talk).

Arafath, Yasser. (2021, October 30). From Bellary to Kannur: Asphyxial wagons, Booted Legs, and the Spectacle of the Body in Colonial Malabar, 1921, Invited Speaker, ARCENCIEL-21, Monthly Academic Webinar Series-Webinar-2, Government College Madappally, Post-graduate Department of History, Kerala (Online).

Choudhary, Manisha. (2021, July 30). Significance of Faculty Development Programme, Lecture as Resource Person at Dev Vidyalaya, Sikar.

Choudhary, Manisha. (2021, October 10). Talking Thar: Environment and Economy, lecture in a webinar organized by Karwaan: The Heritage Exploration Initiative.

Choudhary, Manisha. (2021, December 9). Project Border of North-Western India, Lecture at Nehru Museum and Memorial Library, Delhi.

Choudhary, Manisha. (2022, January 24). Thoughts of Netaji for the Youth of 21st Century, Resource Person & Lecture at PSG College of Arts and Science, Coimbatore.

Choudhary, Manisha. (2021, February 22). Invited R. P. Vyas Memorial Lecture, Rajasthan History Congress.

Deshpande, Anirudh. (2021, September 22). Issues in the Practice of History, Online Refresher Course in History (Recent Trends in Indian History: Society, Culture, Economy & Polity) at the UGC- Human Resource Development Centre, Kumaun University, Nainital.

Deshpande, Anirudh, (2021, October 10). In Defence of History: In the context of New Syllabus Introduced by the UGC, organised by Pragtik Itihas Sanstha.

Deshpande, Anirudh. (2021, October 20). Two Special Lectures to the Naval Cadets at the Indian Naval Academy, Ezhimala, Kerala on Naval Transitions: The RIN from the Jellicoe Proposals to Mutiny (1946).

Deshpande, Anirudh. (2021, October 21). Reading Sources and Writing Narrative- Macro Perspectives and Micro Histories, UGC Stride FDP on Academic Writing organised by St. Dominic College, Kanjirapally, Mahatma Gandhi University.

Deshpande, Anirudh. (2021, November 20). Two lectures delivered on research and research methods as a Resource Person in the Faculty Induction Programme, HRDC, Kumaon University, Nainital, Uttarakhand. 2021, November 11-December 15.

Dhar, Parul Pandya. (2021, September 24). Book Discussion and Book Launch, Bangalore International Centre (BIC), Bengaluru: The Multivalence of an Epic: Retelling the Ramayana in South India and Southeast Asia, BIC, DSA History Foundation and Manipal Universal Press.

Dhar, Parul Pandya. (2021, October 9). 2 Lectures: (1) Stone Sculptures of Ancient India; (2) Stone Sculptures of Early Medieval India. Invited Guest Lectures: Training Course in Conservation-Restoration of Stone Sculptures and Objects, as part of the TATA Trust Art Conservation Initiative, organized by the Himalayan Society for Heritage and Art Conservation.



Dhar, Parul Pandya. (2022, March 5). Demon as Devotee: A Universe of Detail in Hoysala Sculpture, organized by Tamil Heritage Trust.

Dhar, Parul Pandya. (2021, March 25). Where North Meets South: Early Temples of the Deccan, under the aegis of IQAC at Dyal Singh College, University of Delhi.

Faculty Strength: 27

Number of Ph.D. Degrees Awarded: 18

Number of M.Phil. Degrees Awarded: 08

Department of Political Science

Brief History

The Department of Political Science has successfully completed 72 years and has grown as one of the leading Universities in India attracting students from all across the country and world. With around 40 postgraduate students at its inception in 1952, the Department now has roughly 1200 students enrolled overall.

Major Activities and Achievements

The Department of Political Science constantly endeavours to free political ideas and actions from their traditional moorings in Eurocentric philosophy and history. The Department is dedicated to integrating Indian perspectives into the dominant Political Science discourse and emphasising how Indian conceptualizations of different theories may both broaden the perspective on any Political Science theme and also reinforce the fundamental principles of democracy, integration and emancipation. Three-day International Seminar organised by the Department on "Revisiting the Idea of India: From 'Swaraj' to 'New India'" in May 2022, has set a precedent to unravel the identity, existence and journey of Swaraj to New India from its own indigenous and authentic lens rather than through Eurocentric vision. While the Department has been working to bring the Indian perspective at the centre, it has also insisted on studying and conducting research on western institutions and thought in order to more thoroughly examine how Europe and non-Western cultures, particularly India, interact. Understanding the interchange and asymmetry between the West and the non-West is obviously essential to comprehending the Department's present focus area, which is democracy, norms, and institutions.

The need for research in this area is intensified by a number of important global challenges that require more democratic initiatives than are currently available; and these have to be thought of in terms of both national and extra-national institutions. The critical analyses we do, which expose both contemporary and historical manifestations of injustice, discrimination, and institutional processes in the broader global context, are equally beneficial to work in the thrust subject area.

A growing emphasis on the necessity of fusing theory with ethnographic and archival study has augmented our broad focus. We think that in order to confront and open up new empirical material to new concerns, it is essential to familiarise ourselves with both Western political theory and Indian political thought. We are confident that this will shed light on how India and other nations and areas are actually developing while also presenting fresh research directions for Indian and other institutions.

The Department has tremendous academic potential with a faculty that is well-known for both their research and teaching abilities. It has collaborated with several foreign organisations and universities, and its reputation both inside and beyond the nation is quickly growing. The Department's teaching and research initiatives are grounded in a thorough social science methodology that integrates and examines sociological, economic, philosophical, and cultural factors. It promotes thorough research into the topic of politics, focusing in particular on Indian realities making the Department more democratic, inclusive, interdisciplinary and emancipatory with its own values.

Honours/Distinctions

Prof. Navnita C. Behera: Co-Program Chair, Global International Relations Section, International Studies Association (2021-2022).



Prof. Navnita C. Behera: Member, Nominating Committee, International Studies Association (2021-2022).

Prof. Rekha Saxena: Appointed as a member of the scientific committee for the international conference on Federalism held on May 24, 2022, in Paris by the School of Advanced Studies in Social Sciences (EHESS), Paris.

Prof. Rekha Saxena: Nominated as a member of the editorial board of Indian Journal of Elections, published by Election Commission of India, New Delhi.

Publications

Research Articles

Tiwary, Bipin Kumar & Anubhav Roy. (2021). Partnering a rival. *Strategic Analysis*, 45(5), 375-394.

Thachampoyil, Shamna & Chowdhory, Nasreen. (2021). The “state” in statelessness and the state of “statelessness”. *IWMpost*, 128(11).

Chowdhory Nasreen, Sabur Ali M., Ramneet Kaur, Meghna Kajla, Namreeta Kumari, Bipin Tiwari & Saba Ishaq. (2022). Gendering migration: Evaluating empowerment of single migrant women. *Social Change*, 52(1), 24-39.

Shani, Giorgio & Behera, Navnita C. (2021). Provincializing IR through a reading of Dharma. *Review of International Studies*. 48(5), 837-856, doi:10.1017/S026021052100053X.

Behera, Navnita C. (2021). One world, many worlds: globalisation, de-globalization and knowledge production. *International Affairs*, 97(5), 1579-1597.

Behera, Navnita C., K. Hinds, Arlene B. Tickner. (2021). Making amends: towards an anti-racist critical security studies and international relations, *Security Dialogue*, 52(1), 8-16.

Behera, Navnita C. (2021). Teaching a more ‘rooted IR. *International Studies Perspectives*, 22(3), 49-52.

Behera, Navnita C. (2021). Teaching International Relations in India. *International Studies Perspectives*, 24(3), 150-153.

SuKumar N. (2021). The republic of reservations, *EWS: The quota to end all quotas, The Shared Mirror*, 36-44.

SuKumar N. (2021). Paternitas interruptus: adoption is still not a preferred choice for Indian society, *Outlook Magazine*, November 22.

Saxena, R., Wilfried Swenden & Sharma Chanchal Kumar. (2022). Understanding multilevel dynamics in India: constituent power and multilevel governance. *Territory, Politics and Governance*, 10(1), 1-11.

Saxena, Rekha. (2021). Constitutional asymmetry in Indian federalism: the union territory model. *Economic and Political Weekly*, 56(34), 52-60.

Saxena, Rekha, Wilfried Swenden. (2021). Policing the federation: the supreme court and judicial federalism in India. *Territory, Politics and Governance*, 10(1), 12-31.

Saxena, Rekha. (2021). The working of cooperative and collaborative federalism in India: understanding intergovernmental relations. *Indian Journal of Public Administration*, 67(2), 153-164.

Saxena, Rekha. (2021). Electoral representation of women in India. *AWI-JoE Journal of Elections*, 1(1), 114-127.

Kumar H.M., Sanjeev. (2022). An orientalist historiography and the colonised geography: deconstructing the epistemic genealogy of a fractured anthropography of South Asia. *Social Scientist*, 50(1), 3-22.

Kumar H.M., Sanjeev. (2022). Communalizing the eclectic spatialities of India’s public culture: deconstructing the essentialized imageries of Islam in Bollywood cinema. *Quarterly Review of Film and Video*, 39, 1-13.

Giri, Saroj. (202). Bhima Koregaon arrests and the resistance in India. *Monthly Review*, 73(11), 38-55.

Giri, Saroj. (2021). Bhima Koregaon and the ‘powers of the other shore’, *Monthly Review*, 73(5), 18-28.

Singh Ujjwal Kumar. (2021). Elections in a pandemic: role of the Election Commission of India. *Economic and Political Weekly*, 56(21), 13-16.



Singh Ujjwal Kumar. (2021). Federalism, democracy and the national security state in India. *Territory, Politics, Governance*, 10(1), 51-66.

Tiwary, Bipin K. (2021). Soviet tanks, American sedans: traces of India's cold war-era hedging towards the United States, 1966–1971. *India Quarterly: A Journal of International Affairs*, 77(1), 25-41.

Books/Chapter in Books

Chowdhury, Nasreen & Banerjee, Paula (Eds.). (2022). *Gender, identity and migration in India Singapore*, Palgrave & Macmillan, Springer Verlag.

Saxena, Rekha and Singh M.P. (2021). *Indian politics: constitutional foundations and institutional functioning*. New Delhi, Prentice Hall.

Saxena, Rekha., Mitra, S.K., & Mukherjee, Pampa. (Eds.). (2022). *The 2019 parliamentary elections in India, Democracy at the crossroads?*. New Delhi, Routledge.

Saxena, Rekha. (2021). India (republic of India). In Ann Griffiths, Rupak Chattopadyay, John Light and Carl Stieren (Eds.) *The forum of federations handbook of federal countries* (pp. 181-200). Switzerland, Palgrave Macmillan.

Kumar H.M. Sanjeev. (2022). *The India Pakistan sub-conventional war: democracy and peace in South Asia*, New Delhi, Sage.

Singh Ujjwal Kumar & Roy, Anupama. (2022), Institutionalising democratic uncertainties: election time in the life of Indian democracy. In Manu Goswami & Mrinalini Sinha (Eds.) *Political imaginaries in twentieth century India (critical perspectives in South Asian histories)* (pp. 141-158). New York, Bloomsbury.

Journal (s)

Sangit Kumar Ragi (2021-2022). *Indian Studies Review*, Vol. 2(1), Centre for Study of Politics and Governance, Delhi.

Research Projects

Institution of Eminence, University of Delhi, 2020-22, 'The India Pakistan Sub-Conventional War:

Mapping the Workability of the Democratic Peace Hypothesis in South Asia'. (1,75,0000).

Seminars/Conferences organised

Prof. Katherine Adeney, University of Nottingham, Work and Methods - As part of special lectures series: Academia Beyond Borders, 2021, April 07.

Prof. Rupak Chattopadhyay, President & CEO of Forum of Federations and Senior Research Fellow, University of Kent, Federalism as a Tool for Conflict Resolution - As part of special lectures series: Academia Beyond Borders, 2022, April 13.

Prof. Sanjay Kumar CSDS, Delhi, Quantitative Methods in Social Science Research, 2021, May 31.

Prof. Megan Bradley, Associate Prof., Political Science, McGill University, Legitimacy struggles in international organizations: Rights-talk, protection commitments and the International Organization for Migration, 2022, February 16.

Seminar/Conference

(National/International)

Tiwary, Bipin K. (2021, November 24). Presented a lecture on New Education Policy and Provisions for Person's with Disabilities at Faculty Induction Programme" at University of Allahabad.

Tiwary, Bipin K. (2021, July 03). Presented a lecture on Basic steps towards inclusion of student with disabilities in college at Faculty Enrichment Programme, Lady Irwin College, University of Delhi.

Tiwary, Bipin K. (2021, April 06). Presented a lecture on Disability Laws and Educational Opportunities at Abhipsa: The Annual Fest of Enabling Unit, Gargi College, University of Delhi.

Chowdhory, Nasreen. (2021, November 15–20). Presented a talk on Protection and punishment (race, caste, and policing) in the Sixth Annual Research & Orientation Workshop on Global Protection of Migrants and Refugees organised by Mahanirban Calcutta Research Group in collaboration with the Rosa Luxemburg Stiftung, the Institute for Human Sciences, Vienna.

Chowdhory, Nasreen. (2021, August 12). Delivered an online lecture on the practice of sanctuary and the politics of belonging in post-colonial India in the



2-Week Online Refresher Course in Human Rights & Social Inclusion (ID) organised by the UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi, from 2021, August 03-14.

Chowdhory, Nasreen. (2021, July 29). Paper presented on the chit/enclave people in Bengal: a story of unequal rights of 'new' citizens in the International Association for the Study of Forced Migration Biannual Conference "IASFM18: Disrupting theory, unsettling practice: towards transformative forced migration scholarship and policy" under the Panel: Forced Migration and Inequality, hosted By the University of Ghana, 2021, July 26 – 30.

Chowdhory, Nasreen. (2021, May 6). Keynote Lecture delivered on the topic global refugee protection regime, belonging and sanctuary in South Asia, in the Digital Spring Conference (an International Conference) on "Revisiting Migration with a Special Focus on the Global South" of the Developmental Sociology/Social Anthropology Section (ESSA) of the German Sociological Association (DGS), co- hosted by the Center for Intercultural and European Studies (CINTEUS), Fulda. Germany, and organised by Ulrike Schultz (Adventist University Friedensau) and Eva Gerharz (Fulda University of Applied Sciences), during 2021, May 6-7.

Behera, C. Navnita. (2021, April 7). Presented a paper on How 'global' is Global IR? at a virtual panel of the International Studies Association on Global International Relations: Prospects and Challenges.

Behera, C. Navnita. (2021, October 27). Invited talk on 'Kashmir: A future told by the gaze we hold,' at Centre for Land Warfare Studies.

SuKumar N. (2021, December 12). Discrimination in Higher Education Institutions: How and where socially disadvantaged students suffer: evidences from a recent study, Association for Social and Economic Equality.

SuKumar N. (2021, December 6). Ambedkar's vision on social justice in the context of Buddhism, Department of Political Science, Wilson College, Mumbai.

SuKumar N. (2021, November 10). Ambedkar's ideas on gendered subjectivity, FDP, UGC-HRDC and Ambedkar Centre for Socio-Economic Studies, Punjab University, Chandigarh.

SuKumar N. (2021, October 26). Equity in higher education: policy making and implementing strategies for Andhra Pradesh, on the occasion of state level pre-budget consultation: SC/ST sub plan meeting, organized by Dalit Bahujan Resource Centre, Guntur.

SuKumar N. (2021, April 14). Democracy and public conscience: Ambedkarite perspective, 130th birth anniversary of B.R. Ambedkar, organized by BR Ambedkar Chair, Anthropology and Department of Anthropology, University of Calcutta.

SuKumar N. (2021, April 13). Dr. B. R. Ambedkar's ideas on parliamentary democracy, Department of Public Policy and Public Administration, Central University of Jammu.

SuKumar N. (2021, October 18-19). Living memories of caste: the Thoti's stick, 'caste in everyday life' University of Edinburgh, United Kingdom. (Online).

SuKumar N. (2021, July 28). Teaching Dalit Bahujan utopias: notes from the classroom, contemporary anti- caste utopias: a Dalit Bahujan discourse of emancipatory social transformation, European Association of South Asian Studies, University of Vienna. (Online).

Saxena, Rekha. (2021, July 4-5). presented a paper on multilayer governance in Delhi, in a seminar on state politics in India, organised at IIAS, Shimla

Saxena, Rekha. (2021, November 9). Guest Speaker on understanding federalism in India from a gender perspective in a webinar organised by Forum of Federations, Ottawa, Canada.

Saxena, Rekha. (2022, March 13). Keynote speaker on prevention of domestic violence, in a seminar organised by Parishkar College of Global Excellence, Rajasthan University in



collaboration with the National Commission for Women.

Saxena, Rekha. (2021, April 18). Invited as a speaker to a national webinar on COVID federalism, organised by Odisha Political Science Association and BBSR.

Kumar H.M. Sanjeev. (2021, August 27-28). Presented a paper on, Chinese engagement in Afghanistan: implications for India Pakistan strategic equations, in the National seminar on China and South Asia and Southeast Asia: implications for India, organised by the School of Social Sciences, Guru Nanak Dev University Amritsar, in collaboration with the Indian Council of World Affairs.

Singh Ujjwal Kumar. (2022, March 24-25). Presented a paper on state and citizenship in contemporary India, in a national conference on rethinking citizenship in a postcolonial state: identity and conflict in North-East India, organised by the Department of Political Science, Dibrugarh University.

Singh Ujjwal Kumar. (2022, February 4). Nationalism and democracy: the Indian experience, inaugural lecture in politologue 22 (Webinar), organised by the Department of Political Science, Jesus and Mary College,

University of Delhi, Delhi, celebrating the Azadi ka Amrut Mahotsav theme.

Singh Ujjwal Kumar. (2021, August 13). Institutions of democracy: the Election Commission of India, online public lecture, Jindal School of International Affairs, Jindal Global University, Sonapat.

Extension and Outreach Activities:

Community Outreach Program-IV: On meditation, rejuvenation & inner connect sessions. (2021, May 13-15).

Community Outreach Program-III: Mind, body, spirit conducted by Dr. Sujata Kelkar. (2021, May 12).

Community Outreach Program: Mindfulness, mental wellness and learning. (2021, May 11).

Community Outreach Program: Coping with pandemic situation - holistic view on health series. (2021, May 1-10).

Faculty Strength: 14

Number of Ph.D. Degrees Awarded: 32

Number of M.Phil. Degrees Awarded: 28

Department of Sociology

Brief History

The Department of Sociology was established by the University of Delhi in 1959 as a constituent of the Delhi School of Economics with the eminent sociologist Prof. M.N. Srinivas as Head of the Department. To begin with, the Department trained students for two courses: M.A. and Ph.D. In 1966, a two-year course for the M. Litt. degree was introduced. This has been replaced since 1976 by an M. Phil. degree course of a year's duration. In 1968, the Department was recognized as a Centre of Advanced Study in Sociology by the University Grants Commission (UGC), the first Department of Sociology to receive this recognition and has continued to be a Centre of Advanced Study till the

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discontinuation of the scheme by UGC. 2021-22 was the last batch for M.Phil. Program of the Department. The current Head of the Department is Prof. Sudha Vasan.

Major Activities and Achievements

An event celebrating Prof. Roma Chatterji's Work and Contribution was organised online on 27th August 2021. Many current and former faculty members and students of the Department took part in the event. A Seminar for Research Scholars was organised on 16th of September 2021 and a Seminar for Presentation of Research Projects undertaken by Department Students was organised on 23rd July 2021. An Online



Workshop on Academic Integrity and Proposal Writing was organised by the Department Faculty for Research Scholars on 19-20 July 2021. Two Wellness sessions were organised by the Department in May 2021 to address the Pandemic related mental health issues being faced by students. The Department organised a Panel Discussion on National Education Policy 2020 and the Future of Higher Education on 10 September 2021.

Honours/Distinctions

Prof. Janaki Abraham was conferred the Sree Narayana Chair by Mahatma Gandhi University, Kottayam, Kerala.

Publications

Research Articles

Vasan, Sudha. (2021). The environment as a meta-narrative: introduction to a special issue. *Journal of Developing Societies*, 37(2), 143-50.

Vasan, Sudha. (2021). We are all environmentalists! framing life in the National Green Tribunal, India. *Journal of Developing Societies*, 37(2), 151-66.

Agrawal, Anuja. (2021). Indian older adults and the 'familialist' state policies. *International Journal of Social Welfare*, 30(4), 419-27.

Abraham, Janaki. (2021). Understanding marriage and matriliney in North Kerala: the case of the Thiyyas. *Sanghaditha*, an online Malayalam Magazine.

Abraham, Janaki. (2021). Obituary: gestures of generosity: remembering A. M. Shah. *Contributions to Indian Sociology*, 55(1), 121-22.

Deshpande, Satish. (2021). New challenges for the world's largest democracy. *Religion and Society*, 66(1), 1-16.

Chatterjee, Roma. (2021). Myths, similes and memory traces: themes of abduction in the Ramayana universe. *Society and Culture in South Asia*, 7(2), 232-69.

Books/Chapter in Books

Vasan, Sudha. (2021). The importance of being Ladakhi: negotiating cultural citizenship in Hussain S. (Ed.) *Society and Politics of Jammu and Kashmir*, (pp. 223-39). AG Palgrave Macmillan, (eBook).

Seminars/Conferences organised

Meena Gopal, Chairperson, Advanced Centre for Women's Studies, Tata Institute of Social Sciences, Mumbai, Research Colloquium: From rejecting paternalism to transgressing gender: some thoughts on gender and sport, 2021, April 16.

Sujata Patel, Distinguished Prof., Savitribai Phule Pune University, Research Colloquium: colonialism and its knowledges, 2021, April 30.

Janaki Abraham, Prof., Department of Sociology, Research Colloquium: Sanskritisation as appropriation: A view from the Sree Narayana Guru movement in Kerala, 2022, January 14.

Prathama Banerjee, Prof., CSDS, Delhi, Research Colloquium: The political after critique, 2022, January 21.

Nayanika Mathur, Associate Prof. in Anthropology, Fellow of Wolfson College, Director of South Asian Studies Programme, University of Oxford, Research Colloquium: Beastly identification: the government of big cats in the anthropocene, 2022, January 28.

Paramjit Singh Judge, Retired Prof. of Sociology, Guru Nanak Dev University, Amritsar, Research Colloquium: Culture as a Flowing River: Emerging trends in Punjabi music and its cultural implications, 2022, February 04.

Madhava Prasad, Former Prof. of Cultural Studies, English and Foreign Languages University, Hyderabad, Research Colloquium: The new Indian cinemas: capitalism and aesthetic change, 2022, February 11.

A.R. Vasavi, Social Anthropologist, Punarchith Collective, Karnataka, Research Colloquium: The integration-separation spectrum in rural-agrarian India, 2022, February 18.

Amishi Panwar, Guest Faculty Member, Department of Sociology, University of Delhi, Research Colloquium: Amulets as personal medicine? understanding cord blood storage in Chennai, 2022, March 04.

Dhivya Janarthanan, Guest Faculty Member, Department of Sociology, University of Delhi, Research Colloquium: Space, field and method:



rhythm analysis and the anthropology of the contemporary Indian village, 2022, March 11.

Prasenjeet Tribhuvan, Assistant Prof. of Sociology, Indian Institute of Technology, Jodhpur, Research Colloquium: Cannabis policy in India as a part of social assemblage(s), 2022, March 25.

Students and Faculty of the Department, Research Students' Seminar, 2022, September 16.

Sudhanshu Bhushan (NIEPA, Delhi), Shyam Menon (Former VC, AUD & Dean, CIE, DU), Atul Sood (CSRD, JNU): Panel Discussion: National Education Policy 2020 and the Future of Higher Education, 2021, September 10.

Anuja Agrawal & Sudha Vasan, Prof.s, Department of Sociology, University of Delhi, Online Workshop on Academic Integrity and Proposal Writing, 2021, July 20.

Seminar/Conference (National/International)

Vasan, Sudha. (2022, April 22). Gave an online invited talk titled 'Green Courts and the indigenous slot in Himalayan resource struggles: the environment as a metanarrative', in an event organised as part of Indigenous Asia Initiative by Department of Asian Studies, University of British Columbia, Canada.

Vasan, Sudha. (2021, April 04). Being an invited member of a Virtual Panel 'Revisiting India's forest bureaucracies II: situating individuals in the making of political forests', at the American Association of Geographers Annual Meeting.

Abraham, Janaki. (2021, December). Delivered a public lecture titled 'Sanskritization as

appropriation: a view from the Sree Narayana Guru movement in Kerala' as part of an online ceremony to announce the Sree Narayana Guru Chair at MG University, Kottayam, Kerala.

Agrawal, Anuja. (2021, May 17). Delivered a lecture titled 'Considering the peripheries: gendering Indian denotified, semi-nomadic and nomadic communities', organised by Centre for India and South Asia Speaker Series (online), UCLA, USA.

Agrawal, Anuja. (2021, October 21). Delivered an online Inaugural Lecture titled 'Families: normative and alternative' for the Department of Sociology, Lady Shri Ram College for Women.

Agrawal, Anuja. (2022, March 25). Delivered a Lecture titled 'Beyond the individual: caste, family and sex work in India' at the Sociology Seminar Series, Ambedkar University, Delhi.

Extension and Outreach Activities:

Two Wellness sessions were organised by the Department in May 2021 to address the Pandemic related mental health issues being faced by the students. Department organised a Panel Discussion on National Education Policy 2020 and the Future of Higher Education on 10 September 2021. The Department proactively helped students in transitioning from the online to offline classes in February 2022.

Faculty Strength: 10

Number of Ph.D. Degrees Awarded: 6

Number of M.Phil. Degrees Awarded: 8

Department of Social Work

Brief History

The Department of Social Work was founded in 1946 as the National YWCA School of Social Work at Isabella Thoburn College, a reputed Women's College in Lucknow. It was in 1947 that the School shifted to Delhi and was affiliated to the University of Delhi in 1948 as Delhi School of Social Work. It was taken over by the University of Delhi in 1979 and

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became its Department of Social Work. The first batch of students from the Department had met Mahatma Gandhi and the best written resolutions of the social work students were put together and gifted as the first copy of the accepted oath to the Mahatma and which became our first oath as social work professionals. The Platinum Jubilee celebrations of the Department coincide with the 75 years of India's

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independence and 100 years of foundation of the University of Delhi.

Major Activities and Achievements

The Department of Social Work completed its 76th year and continued the tradition of excellence-building by maintaining high standards of teaching, research as well as field practicum. The year 2021-22 has been a productive year and was marked by multifaceted initiatives that were undertaken in the online, blended as well as offline modes. Despite various challenges owing to the COVID-19 pandemic, the Department continued to make achievements and contributions towards building and strengthening an enabling environment, inspiring students' young minds in a progressive manner respecting diversity and inclusion. The Department instituted the prestigious Platinum Jubilee Lecture Series. The Nodal Centre for COVID Response to global public health crisis of COVID-19 was set up. The resource infrastructure was upgraded by renovating the office into a classroom, setting up of the LAN connection in the campus, converting the committee room into a fully functional audio-visual room etc.

Honours/Distinctions

As per the result of Best College Survey-2022, conducted by India Today MDRA, Department has been ranked as 'The Best Government Funded College in Social Work in Academic excellence in India', 'The Best Government Funded College in Social Work in Personality and leadership development in India'. We have also been ranked as 'The Best Government Funded College in Social Work in Career Progression & Placement' and also as 'The Best College of Social Work in Northern India'. As per the ranking conducted by Outlook - ICARE 2022, the Department has ranked high on various parameters such as 'The Best College in India in Academic Research Excellence'. As per the ranking 2022 given by Outlook-ICARE, Department of Social Work, DU ranks as the Best College in India in Academic Research Excellence.

Publications

Research Articles

Bhatt, S. (2022). Gangrade, Kesharichand Dashrathsa. Encyclopedia of Social Work, <https://doi.org/10.1093/acrefore/9780199975839.013.1560>

Bhatt, S. (2022). Strong and vibrant social sector is sine qua non for social development. *Space and Culture, India*, 9(3), 1-5.

Bhatt, S. (2021). Students enrollment in social work courses in Indian higher educational institutions: an analysis. *Space and Culture, India*, 9(2), 50-64.

Bhatt, S. & Singh A.P. (2021), Rehabilitation of rescued Children from worksites in India. *Social Development Issues*, 43(2), 54-72.

Agnimitra, N. (2021). Harboursing resilience and hope: India's encounter with COVID (Editorial). *Space and Culture, India*, 9(1), 1-5.

Agnimitra, N. (2021). Devbans, caste, gender and the state: political ecology of a sacred grove of Himachal Pradesh, *Journal of Social Inclusion Studies*, 7(1), 51-64.

Roy, S. (2021). Mental health status of incarcerated women in India: a perspective from a social worker. *Indian Journal of Gender Studies*, 94(1), 7-29.

Roy, S. (2021). Teaching caste & reservation in classroom setting: effort towards anti-oppressive social work practice. *American Research Journal of Humanities and Social Sciences*, 7(1), 1-9.

Roy, S. (2021). Rural camp in social work practicum: a lively pedagogy of learning. *African Journal of Social Work*, 11(1), 12-22.

Kaushik, A. & Batra, S. (2021). Living will: the ultimate right over one's life, *National Journal of Professional Social Work*, 22(1), 134-149.

Kaushik, A. (2021). Social exclusion among social minorities: a case of HIV positive homosexuals, *Journal of Social Inclusion Studies*, 6(2), 164-181.

Kaushik, A., Arokkiaraj, H. & Rajan, S.I. (2021). Effects of International male migration on wives left behind in rural Tamil Nadu. *Indian Journal of Gender Studies*, 28(2), 1-20.

Kaushik, A. & Farooqui, F. Jannat. (2021). Understanding Islamophobia through the eyes of American Muslim Children: Religious bullying and school social work interventions. *Child and Family Social Work*, 26(3), 1-13.



Pandey, Neena.*et al.* (2021). How access to non-farm income affects farm investments in rural India?. *Journal of Public Affairs*, 10.1002/pa.2681

Adusumalli, M. (2021). Lived realities and social work response: the unorganised sector during Covid-19. *IJSW*, 82(2), 155-170.

Anand, M. (2022). Combining feminist theory and social work: towards developing an indigenous model of practice in India. *Practice: Social Work in Action*,
<https://doi.org/10.1080/09503153.2022.2029835> .

Anand, M. (2021). Mental health and human rights: an Indian enquiry. *Indian Journal of Social Psychiatry*, 37, 235-241.

Thomas, N.T. (2022). Concerning Manipur Hill Areas democratic aspirations. *NIU International Journal of Human Rights*, 9, 146-156.

Books/Chapter in Books

Vasan, Sudha. (2021). The importance of being Ladakhi: negotiating cultural citizenship in Hussain S. (Ed.) *Society and Politics of Jammu and Kashmir*, (pp. 223-39). AG Palgrave Macmillan, (eBook).

Agnimitra, N. (2021). *Life in confounded times: experiences of struggles and resolve*. New Delhi, Papyrus Scrolls Publications.

Bhatt, S. (Ed.) (2021). *Life under lockdown: lived experiences and lessons learnt*. New Delhi, Papyrus Scrolls Publications.

Roy, S. (2022). *Specialization in Indian social work: an Academic & indigenized practice profession*. New Delhi, Atlantic Publication.

Roy, S. (2021). *Social work education: indigenous perspectives*. New Delhi, SAGE.

Kaushik, A. (2021). *Locating meaning of life & death during COVID-19*. New Delhi, Papyrus Scrolls.

Kaushik, A. (2022). *Family and child development: a specialization in social work education and practice*. New Delhi, Atlantic Publication.

Kaushik, A. (2021). *Older women in India: differential vulnerabilities and empowerment interventions*, New Delhi, Springer.

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Kaushik, A. (2022). *Correlates, causes, and consequences of elder abuse in the current contexts*. New Delhi, Springer.

Adusumalli, M. & Kumar S. (2022). *Law and governance: lessons from the Covid-19 pandemic*, New Delhi, Bloomsbury. 1-22.

Adusumalli, M. & Lyngdoh, J. (2022). *Locating ageing in India: indigenous perspectives of the Khasis and Jad Bhotiyas*. New York, Oxford.

Sharma S. (2021). *Passing through prism*. New Delhi, Papyrus Scrolls.

Rani, S. (2021). *Social work and counselling: contemporary and emerging practice areas*. New Delhi, SAGE.

Rani, S. (2021). *Scope and fields of social work and emerging areas*. New Delhi, SAGE.

Thomas, N.T. (2021). *Covid and lockdown: law of nature v/s human rights*. New Delhi, Papyrus Scrolls.

Thomas, N.T. (2022). *Covid-19: the plight of Indian migrant workers. In pathos of pandemic: Covid-19*. New Delhi, New Delhi Publishers.

Maske, S. & Iqbal, B. (2022). *Modernity and nomadism Bakkarwals in context*. New Delhi, New Delhi Alternotes Press.

Research Projects:

Institute of Eminence Research Council, University of Delhi, 2021-22, A study of factors influencing perceived and experiential readiness of survivors to forgive transgressors. (Rs. 136250).

Institute of Eminence Research Council, University of Delhi, 2021-22, Quality schooling and social work engagement: national education policy (NEP) 2020 vision. (Rs. 175000).

SEWA-THDC, 2021-22, Baseline survey and need assessment of project affected villages of Khurja Super Thermal Power Corporation, (Block Arnia, Tehsil Khurja, District. Bulandshahr, Uttar Pradesh). One-year Project.

DSACS, 2 weeks, Evaluation of 60 TI FY 2021-22.



ICSSR, 2021-22, Enhancing educational and vocational aspirations among SC-ST students: an action research in an underdeveloped district, Chhattisgarh. (Rs 198082).

SOS, 2021-22, A comparative study of psychosocial attributes of children from SOS children's villages of India and children from families of similar backgrounds in communities.

Seminars/Conferences organised

Prof. Meena Gopal, Chairperson, Advanced Centre for Women's Studies, Tata Institute of Social Sciences, Mumbai, Research Colloquium: From rejecting paternalism to transgressing gender: some thoughts on gender and sport, 2021, April 16.

Prof. Lena Dominelli; Chair-Prof. Pamela Singla, University of Stirling, United Kingdom, Department of Social Work, Climate justice and anti-oppressive social work for the 21st century', 2021. December 14.

Prof. Janis Fook; Chair-Prof. Pamela Singla, Prof. and Chair, Department of Social Work, University of Vermont, USA, Department of Social Work, Contextual practice in social work: How transferable are ideas and theories developed in one country applicable in another? 2022, March 15.

Prof. Shalini Deshpande, Prof. Satish Deshpande, Prof. Sanjai Bhatt and Prof. Manoj Kumar Jha, and Prof. Pamela Singla as Chair, Director, TISS, Mumbai; Prof., Dept of Sociology, Delhi School of Economics; Department of Social Work, Life and works of Prof. M.S. Gore (1921-2010): Themes, issues and critical debates, 2021, September 15.

Prof. N. Jayaram; Chair-Prof. Pamela Singla, Prof. (Retd.) Tata Institute of Social Sciences, Mumbai, Department of Social Work, M.S. Gore Memorial Lecture, 2021, November 19.

Ms. Brinda Singh; Chair-Prof. Pamela Singla, Managing trustee, Tejeshwar Singh Memorial Trust, The Delhi School of Social Work Alumni Association collaborated with the Department of Social Work, Alumni Lecture in the memory of Prof. M. S. Gore, 2021, October 08.

Prof. Payal Mago and Prof. Shri Prakash Singh; Convenor-Prof. Pamela Singla, Co-Convenor Prof. Neena Pandey, Director, School of Open Learning and Director, South Campus, Department of Social Work, Women spaces and voices: exhibiting their strength, 2022, March 14.

Prof. Walter Fernandes and Prof. Virginius Xaxa, Senior Fellow (Prof.), North Eastern Social Research Centre, Guwahati and National Convener of the Tribal Intellectual Collective India, Department of Social Work in collaborations with the Centre for North East Studies and Policy Research, Jamia Millia Islamia, Livelihood and Rehabilitation in India's North-East, 2021, April 28.

Dr. Prasenjit Biswas, Associate Prof. in the Department of Philosophy, North-Eastern Hill University, Shillong, Department of Social Work, Peace Building in North-East States, 2022, February 25.

Jaikar Mishra, Shailendra Nath Jha, Pawan Kumar. Department of Social Work, webinar on online economic offences: prevention and remedies, 2022, February 19.

Seminar/Conference Presentations (National/International)

Singla, Pamela. (2021 April 15). Presented a paper titled, 'Digital world and social work—the Indian perspective at 'International Social Work Education and Development Online Conference (ISWED)', (for Oral presentations), Rimni, Italy, organised by ICSW, IASSW.

Singla, Pamela. (2021 April 9). Presented an online paper (invited) titled, 'Social work and social solidarity during COVID 19', at 3rd International and 35th National Social Work Day Congress on 'Social Work, Social Observation and Social Solidarity' organised by Iran Association of Social Workers, Tehran (Iran).

Singla, Pamela. (2022, February 23). Presented an online paper (by invite) titled, 'Social inclusion and social work' at 4th International and 36th National Social Work Day Congress on Social Work, Social Inclusion, organized by Iran Association of Social Workers, Tehran (Iran).



Singla, Pamela. Paper presented online titled 'Internationalisation of curriculum and its rationale' in the online workshop on 'Internationalisation of Curriculum' held under the aegis of DU- RISHII (Resources for Internationalisation of Higher Education Institutions in India) Project, in collaboration with University of Deusto, Spain, co-funded by Erasmus and Programme of EU, held on 2021, March 12, July 3 & 17.

Singla, Pamela. (2021, September 10). Resource person for offline session titled 'Institutional values and best practices' in UGC sponsored national workshop on 'Quality Initiatives on Higher Education' under UGC Paramarsh Scheme, organised by BBK College for Women, Amritsar, 2021, September 9-11.

Singla, Pamela. (2021, September 23). Panelist for national webinar, presented paper, titled 'women's journey for freedom pre and post independent India' at webinar on occasion of Azadi Ka Amrit Mahotsav, organised by Dr. Bhim Rao Ambedkar College, University of Delhi.

Singla, Pamela. (2022, March 8). Keynote speaker for National Seminar, 'Break the bias: striving for equity', on International Women's Day, organised by Centre for Women's Studies and Research, University of Kashmir.

Pandey, Neena. (2021, October 28). Presented paper on Rashtriya Shiksha Niti 2020 ke sandarbha mei Vidyalayi Shiksha mei Samajik Karyakartaon ki Bhumika evam peshe ka Sameekshatmak Vishleshan, in the IX Indian Social Work Congress (ISWC) organised online by National Association of Professional Social Workers in India (NAPSWI).

Anand, Meenu. (2022, March 31- April 1). Presented paper titled 'Feminist social work in India: deriving an indigenous model of practice', in the Online International Conference on 'Comparative Histories of the Development of Social Work Across the Commonwealth', organised by the Commonwealth Organisation for Social Work (COSW) and the Institute for Commonwealth Studies (ICwS), School of Advanced Study in partnership with the University of Edinburgh and King's College London.

Anand, Meenu. (2021, October 28-30). Presented a paper titled 'Women as farmers- building local economy, building nation' in the 9th Indian Social Work Congress. organised by NAPSWI and Matru Sewa Sangh Institute of Social Work, Nagpur and Maharashtra Association of Social Work Educators.

Dev, Shashi Rani. (2021, October 28-30). Paper Presented titled 'Need and relevance of crisis support intervention during Covid-19 pandemic' at 9th Indian Social Work Congress 2021, held online and jointly organised by NAPSWI, Matru Sewa Sangh Institute of Social Work, Nagpur, MASWE.

Jha, Pushpanjali. (2022, March 12-13). Presented a paper titled 'Gender based violence in conflict zones and public domain-cartographies of violence against women', in two-day International Conference on 'Cartographies of Gender-based Violence: Literary Reflection from South Asia and beyond'. hosted in an online mode (Webex) by the Department of Humanities and Social Sciences, IIT Patna in association with Shastri Indo-Canadian Institute and Saint Mary's University, Halifax (Canada).

Yumnum, Veda. (2021, September 1-3). Presented a paper online titled 'Sex work in the times of Covid-19: the Indian experience', in International Social Work Conference on Pandemics, Poverty and Inequality: Social Work in the 21st Century, organised by the Association of South Africa Social Work Education Institutions.

Agnimitra, Neera. (2022, March 12). Co- presented on 'Academic internationalisation: reflections on past, present and future' at the 'Workshop on Internationalisation of Curriculum: Profiles of Global Professionals' held under the aegis of DU-RISHII (Resources for Internationalisation of Higher Education Institutions in India) Project, in collaboration with University of Deusto, Spain. Project co-funded by the Erasmus + Programme of the European Union.

Agnimitra, Neera. (2022, March 12). Delivered keynote on 'Community climate resilience and trans-boundary resource management' at the 9th Asian Academic Society International Conference on 'Gender and Disaster Management: Issues and Perspectives', held in Bangkok, Thailand.



Bhatt, Sanjay. (2022, May 27-28). Inaugural Address as Special Guest at National Conference on 'Co-building a new eco-social world: leaving no one behind in Indian perspective', organized by Centre For Social Work, Panjab University & Indian Society of Professional Social Work.

Bhatt, Sanjay. (2022, March 15). Address as Guest of Honour in the inaugural session, at National Conference on 'Co-building a new eco-social world: leaving no one behind- from Kanyakumari to Kashmir, held in Collaboration with Central Universities and Colleges Social Work Student Forums, Department of Social Sciences, School of Social Sciences and Languages (SSL), Vellore Institute of Technology (VIT MSW - Social Work Students' Forum).

Bhatt, Sanjay. (2022, June 27). Address as Chief Guest in the Valedictory Session of the short-term course on 'E-content development and online pedagogy', UGC-Human Resource Development Centre, University of Burdwan.

Roy, Sanjay. (2021, August 2-8). Special Address as Special Guest Speaker on 'Contemporary social challenges: a way towards change', organised online by NERIM Group of Institution, Department of Social Work.

Thakur, Abhishek. (2021, August 24). Invited as a Keynote Speaker to deliver a lecture on 'role of FCRA in shaping the non- profit organisations', Department of Social Work, NEF College, Guwahati.

National/International MoUs Signed:

Department of Social Work, University of Delhi is one of the partners in the project RISHII (Resources for Internationalisation of Higher Education Institutions in India), which is co-funded by the Erasmus+ Programme of the European Union. RISHII focuses on management approaches that are necessary to plan and implement curriculum internationalisation. Three Departments of the University of Delhi, viz. Department of Physics and Astrophysics, Department of Social Work

and Faculty of Law are representing the University under RISHII. The project relates to 'Internationalisation of Curriculum' and will focus on the philosophy behind internationalisation that can yield benefits to all students, regardless of their financial means and social capital. Under the RISHI project, workshops are conducted by the representatives from all the three departments to make the participants aware of the multiple advantages that internationalised higher education programs and internationally open teaching can bring to each Indian student and to the Indian society and economy in general. It also aims to address the question of how international relations offices and faculty members can join their efforts in order to make all the members of their institutions (academic and non-academic staff, as well as students) aware of the need and benefits of such internationalisation efforts.

Placement Details (Placement Details):

49 (52%). Note: Students placement continued beyond 31st March 2022 and more students were placed)

Extension and Outreach Activities:

Nodal Centre for COVID Response (NCCR) was conceived in the Department of Social Work to respond to the global public health crisis of COVID-19. The centre was conceived in continuation of the past practices of the Department of responding to disasters and humanitarian crises. All the activities of the Department initiated for COVID-19 were amalgamated under the aegis of the centre which includes the initiative of Alumni of the Department, students and the work undertaken by teaching and non-teaching staff.

Faculty Strength: 17

Number of Ph.D. Degrees Awarded: 9

Number of M.Phil. Degrees Awarded: 8



ACADEMIC CENTRES

AGRICULTURAL ECONOMICS RESEARCH CENTRE

Brief History

The centre was established on 8 February, 1954 vide DO No.F.2-3/52-P.C.11 as a section of the Department of Economics, Delhi School of Economics, University of Delhi. AERC has been functioning as an independent Centre since 1960 and moved to its present building in 1961. The Centre was integrated with University of Delhi in 1987 vide ordinance XX-G of University of Delhi and has since functioned as a maintained institution of the University. The list of eminent economists who headed the Centre includes Prof. Amartya Sen, Prof. B.N. Ganguli and Prof. Raj Krishna among others. The Centre is fully funded by the Ministry of Agriculture and Farmers' Welfare, Government of India (MoA&FW). The Centre carries out research on agriculture and rural economy. More than two hundred research studies have been completed since inception which have significantly contributed to policy formulation.

Major Activities and Achievements

AERC, Delhi continued to perform the research and policy activities during the Financial Year 2021-22. There have been contributions in the form of research reports, journal publications, books, presentations in conferences and inputs to high level committees by the faculty. Former Honorary Director, Prof. P. K. Joshi (former Director for South Asia, International Food Policy Research Institute) retired from the centre on 31st December, 2021. The centre progressed under his able guidance for more than two years despite the severe impact of Covid-19 pandemic which significantly affected the field and research work. Prof. Ram Singh was appointed as new chairperson of this Centre on 20th April, 2021 on completion of the tenure of the former chairperson, Dr. Harsha Vardhana Singh (former Deputy Director General of WTO, Geneva) whose term ended in March 2020. Prof. Param Jit has been appointed as the Director (Acting) of this Centre on 09th February, 2022.

Publications

Nuthalapati, C. S. R., Joshi, P. K., Mittra, B., & Pingali, P., (2022), Nutrition-sensitive food systems and

biofortified crops., *Agricultural Economics Research Review*, 35, 1, 123-132,.

Research Projects

Ministry of Agriculture & Farmers' Welfare, GoI, 2020-2021, Village Survey Study in Uttarakhand (Lachhampur Village), Included in the combined budget of the centre

Ministry of Agriculture & Farmers' Welfare, GoI, 2021-2022, Estimating and Bridging the Yield Gaps in Oilseeds for Atma Nirbhar Bharat, Included in the combined budget of the centre

Ministry of Agriculture & Farmers' Welfare, GoI, 2021-2022, Impact Evaluation of Paddy Stubble Management Practices in Haryana, Included in the combined budget of the centre

Ministry of Agriculture & Farmers' Welfare, GoI, 2021-2022, Impact Evaluation of Paddy Stubble Management Practices in Delhi, Included in the combined budget of the centre

Ministry of Agriculture & Farmers' Welfare, GoI, 2021-2022, Land Titling and Agricultural Productivity in Haryana, Included in the combined budget of the centre

Seminar/Conference

(National/International)

Workshop on Statistical Meta Analysis (2021, September 23-24) Department of Statistics, University of Delhi.

Presentations



CENTRE FOR DETECTOR AND RELATED SOFTWARE TECHNOLOGY

Brief History

Centre was founded in 1990s to strength and advance the detector development and related software technologies in the field of experimental high energy physics. The notable contributions from the DU include the participation in the discovery of the Higgs boson at the CMS Experiment, development of micro strip silicon detectors, and setting up of detector characterization lab. Under the Joint National Collaboration of DU, BARC, and BEL, India developed, for the first time, the silicon micro strip detector for the CMS experiment. This marked the advent of technological advancement in cutting-edge sensor technology in India.

Major Activities and Achievements

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

Honours/Distinctions

One of the major and path-breaking discovery of the recent times in the particle physics, the Higgs boson, commonly known as the God Particle, at the CMS in the year 2012, was listed as the breakthrough of the year 2012 in journal Science. DU contributed to this discovery in two major ways – providing state-of-the-art instrumentation for the experiment and human resource for physics analyses. The Higgs boson paper,

published in Physics Letters B, has been cited more than 4700 times in the last 5 years. This discovery culminated in Nobel Prize in Physics in 2013 to Peter Higgs and Francois Englert.

Publications

Tumasyan A., (2022). Measurement of $W\pm\gamma$ differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV and effective field theory constraints, Phys. Rev. D, 105, 105, 052003, 1

Tumasyan A., (2022). Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV, Journal of High Energy Physics, 3, 2022, 160, 1

Tumasyan A., (2022). A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV, Journal of Instrumentation, 3, 17, P03014.

Tumasyan A., (2021). Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s} = 5.02$ TeV Using Leptonic Decays, Phys. Rev. Lett., 19, 127, A42, 2.

Tumasyan A., (2021). Observation of tW production in the single-lepton channel in pp collisions at $\sqrt{s} = 13$ TeV, Journal of High Energy Physics, 11, 2021, 111, 1.

Research Projects

DST Major Research Project, 2014-2020, Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization, 1173

DST Major Research Project, 2014-2020, Updating and Operation of Regional WLCG Grid System, 25.3

CENTRE FOR ENTREPRENEURSHIP AND CAREER ORIENTED PROGRAM

Major Activities and Achievements

The Centre for Entrepreneurship and Career Oriented Programs was established by University of Delhi in the year 2000. This was an outcome of the deliberations as to how the University can impart

skills to students and graduates of the University so that they can get jobs in the industries or set up their own Enterprise. Prof. Neelamegham was appointed as the Hony. Chairperson. and I was appointed as the Hony. Director of CECOP. The Centre organized



various skill development courses in Shaheed Rajguru College of Applied Sciences for Women as the Centre was housed there as I was also the principal that College. A delegation from University of Delhi also visited the Houston Community college systems to study how they design courses relevant to the community. We conducted lots of skill development courses in various fields the conducted a weeklong International Institute in collaboration with University of Massachusetts Boston on how to change our mind set and create “MOOC” online courses wherein 53 college teachers participated from all over India

The Centre has now opened Entrepreneurship Cells in more than 18 colleges of University of Delhi. The Centre has helped various colleges to start the Incubators. The Centre conducts various programs for motivating students to become Entrepreneurs.

Honours/Distinctions

A Centre for Multidisciplinary Research, Innovation & Entrepreneurship has been started in Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

Books/Chapter in Books

Devi, S.L., (2021). The Saga of Food, Delhi, International Book House.

Seminar/Conference

(National/International)

Invited talk on Entrepreneurship to CBSE School Innovation Ambassador Training Program for teachers, (2021, September, 20-21) Wivitan Solutions India Pvt. Ltd. (Skilllet).

Other Inter-Institutional Collaborations

Collaborations with Primarily Shaheed Rajguru College of Applied Sciences for Women and nearly 18 different colleges of University of Delhi

Extension and Outreach Activities

Swami Vivekananda -An inspiration for Youth, Vivekanand Jayanti (2022, January 12). Vivekanand college, University of Delhi.

Swami Vivekananda and Enlightened Citizenship, 2022, January 12). ARSD College, University of Delhi.

Other Significant Information

15th June '21 -Was appointed as a member of a Committee for Creation of a Startup Policy for Shaheed Rajguru College of Applied Sciences for Women.

28th July '21-The first meeting was conducted and we reviewed the draft policy.25th August'21 – Invited talk on the Occasion of Diamond Jubilee Shivaji College “My Experience in Shivaji College”, University of Delhi

20th and 21st Sep'21 – Invited talk on Entrepreneurship to CBSE School Innovation Ambassador Training Program for teachers Wivitan Solutions India Pvt. Ltd. (Skilllet). Skilleit is selected as knowledge partner by MHRD to conduct Entrepreneurship training to 50k teachers of 18k CBSE schools across India & globally.

21st October'21 – IQAC meeting of Shaheed Rajguru College of Applied Sciences for Women. 22nd Dec'21 – IQAC meeting at Vivekananda College, University of Delhi.

12th January'22, 11 am- Vivekanand Jayanti in Vivekanand college, University of Delhi talk on “Swami Vivekananda -An inspiration for Youth” 12January '22 4pm ARSD college, University of Delhi Vivekanand Jayanti “Swami Vivekananda and Enlightened Citizenship”.

20th January'22 – CREST 10.0; ELPIDA: Was a judge for a “National intercollege Business Proposal Competition “organized The Way Forward Great Lakes Institute of Management Gurgaon 11th Feb'22 – Was appointed as member of a committee for Skill Enhancement Courses for University of Delhi.

28th Feb'22 – Delivered a lecture on “Environmental Issues and sustainable development” in National Dairy Research Institute, Karnal at 11am.

28th Feb'22 -Was a panellist in “Ecoville '22” in the International Conference on “Mitigating Contemporary Environmental issues and sustainable approaches” Igniting young minds in Acharya Narendra Dev College, University of Delhi. 7th March'22 – Attended the meeting for Skill enhancement courses University of Delhi.



CENTRE FOR ENVIRONMENTAL MANAGEMENT OF DEGRADED ECOSYSTEMS (CEMDE)

Major Activities and Achievements

In joint collaboration with Delhi Development Authority, the Centre has been developing and ecologically sustainably managing seven DDA Biodiversity Parks of Delhi spreading over 3000 acres – the largest outreach programme ever undertaken by any University. All these Biodiversity Parks (Yamuna, Aravalli, Kamla Nehru Ridge, Tilpath Valley, Tughlaqabad, Neela Hauz and Kalindi) not only preserve the lost natural heritage of Delhi but also provide a wide range of ecological services ranging from purifying air to storage of floodwater and recharging the rain water to ground water. About 0.25 million students from schools and colleges take their practical environmental education from these Parks every year. Director, CEMDE is involved in research on biological invasion.

Honours/Distinctions

Inderjit Singh won Humboldt Research Award by the Humboldt Foundation, Germany, April 2022 representing the amount of Euro 60,000.

Inderjit Singh elected Fellow of Indian National Science Academy (FNA, INSA), New Delhi India, effective from 1 Jan 2022.

Publications

Inderjit, Callaway, R.M. & Meron, E., (2022). Vegetation patterning and biodiversity of plant communities: Reply to comments on “Belowground feedbacks as drivers of spatial self-organization and community assembly. *Physics Of Life Reviews*, 42, 29-32.

Inderjit, Simberloff, D., Kaur, H., Kalisz, S. & Bezemer, T.M., (2021). Novel chemicals engender myriad

invasion mechanisms. *New Phytologist*, 232, 1184-1200.

Inderjit, Callaway R.M. & Meron, E., (2021). Belowground feedbacks as drivers of spatial self-organization and community assembly. *Physics Of Life Reviews*, 38, 1-24.

Research Projects

Committee of NGT, 5 YEARS, Integrated Project on the Restoration and Restitution of Degraded

Landscapes and Waterscapes and also for Prevention and Control of Pollution in and around Simbhaoli area (including Phuldera Drain and Syana Escape Canal) degraded by M/s Simbhaoli Sugars Ltd., 2,42,11,668

Seminar/Conference (National/International)

Inderjit (2022, April 28). Litter chemicals engender mechanisms underlying vegetation changes. Webinars in polyphenol research, Polyphenols in natural soil systems, USA.

Inderjit (2022, February 22). Novel chemicals mediate invasion success of exotic species. Mitigating contemporary environmental issues by sustainable approaches, Acharya Narender Dev College, University of Delhi.

Other Significant Information

About 0.25 million students from schools and colleges take their practical environmental education from these Parks every year.

CENTRE FOR GENETIC MANIPULATION OF CROP PLANTS

Brief History

The Centre for Genetic Manipulation of crop Plants (CGMCP) at the University of Delhi South Campus has been involved with the breeding of oilseed mustard (*Brassica juncea*) through the use of molecular markers and development of transgenics. CGMCP at

the University was established in 1996 with an initial grant of Rs. 5.37 crore from the National Dairy Development Board (NDDB). The decision to support CGMCP research work was taken when Dr. Verghese Kurien was Chairman of NDDB, major objectives of the grant being improvement of oilseed mustard for yield and oil and meal quality. Since 1996, CGMCP



has received around 50 crores of grants from NDDB in four phases of five-year duration. Since 2016, the Centre is being funded by DBT under 'DBT-UDSC partnership Centre on genetic manipulation of Brassicas'.

Major Activities and Achievements

Major activity of the lab 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 lab has sequenced the genome of seven 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.

Honours/Distinctions

SERB-National Science Chair awarded to Prof. Deepak Pental

INSA Senior Scientist awarded to Prof. A. K. Pradhan

Publications

Mathur, S., Paritosh, K., Tandon, R., Pental, D., Pradhan, A.K., (2022). Comparative analysis of seed transcriptome and coexpression analysis reveals candidate genes for enhancing seed size/weight in *Brassica juncea*. *Frontiers in Genetics*, February, 13, Article no. 814486.

Agarwal, P., Mukhopadhyay, A., Gupta, V., Pradhan, A.K., Pental, D., (2022). Glyphosate-resistant *Brassica juncea* (oilseed mustard) transgenics for possible control of root parasite *Orobanche aegyptiaca* and conservation agriculture, *J. Plant Biochemistry and Biotechnology*, January, 31, 648-659.

Aakanksha, Yadava, S.K., Yadav, B. G., Gupta, V., Mukhopadhyay, A., Pental, D., Pradhan, A.K., (2021). Genetic Analysis of heterosis for yield influencing traits in *Brassica juncea* using a doubled haploid population and its backcross progenies, *Frontiers in Plant Science*, September, 12, Article no. 721631.

Paritosh, K., Yadava, S.K., Singh P., Bhayana, L., Mukhopadhyay, A., Gupta, V., Bisht, N.C., Zhang, J., Kudrna, D., Copetti, D., Wing, R.A., Reddy-Lachagari, R., Pradhan, A.K., Pental, D., (2021). A chromosome-scale assembly of allotetraploid *Brassica juncea* (AABB) elucidates comparative architecture of the A and B subgenomes, *Plant Biotechnology Journal*, 3, 19, 602-614, 26.

Books/Chapter in Books

SK Yadava, N Ramchiary, (2022) .Advanced Molecular Breeding for Yield . In: *The Brassica juncea genome* (399-412). Cham, Springer.

Paritosh, K., Pental, D., (2022) . *Brassica juncea Genome Assemblies—Characteristics and Utilization*. In: *The Brassica juncea genome* (241-255). Cham, Springer.

Research Projects

Department of Biotechnology, 2016-2022 Dec.-Sept., DBT-UDSC Partnership Centre on Genetic Manipulation of Brassicas, 1259.06

Department of Biotechnology, 2018-2022 Sep.- Sep, Genomics-led improvement of abiotic stress tolerance in mustard rape for economic and environmental sustainability, 108.43

Department of Biotechnology, 2019-2022 April-Oct, Nutritional Improvement of Indian oilseed mustard using CRISPR-Cas9 mediated genome editing, 53.45 National/International MoUs Signed

a. MoU signed with 7 Indian seed companies for white rust resistant mustard lines

Other Inter-Institutional Collaborations

Prof. Pradhan is coordinating a multi-institutional Indo-UK project involving 10 Indian partners and UK partners Collaboration with Dr. Naveen Bisht of NIPGR for nutritional improvement of mustard

Extension and Outreach Activities

Seed of hybrid mustard variety DMH-1 is provided to ICAR for coordinated field trials.

Faculty Strength

Mentor - Prof. Deepak Pental - SERB National Science Chair

Prof. A. K. Pradhan - INSA Senior Scientist
Prof. Jagreet Kaur

Scientists under DBT-UDSC partnership project - 4



Number of Ph.D. Degrees Awarded

3

CENTRE FOR GLOBAL STUDIES

Major Activities and Achievements

The Centre organized various activities in the academic year 2021-22 which is an achievement in itself.

Conferences, Seminars and Workshops

i) 14th Monthly Lecture: 'Interpreting the Idea of Indic' Countering the menace of Covid pandemic, the Centre organized its 14th Monthly Lecture on the theme, 'Interpreting the Idea of Indic' on 4 September 2021 in the Auditorium of the Centre. The program was chaired by Prof. Himanshu Roy, Senior Fellow at the Nehru Memorial Museum and Library, New Delhi and the keynote speaker in the program was an eminent thinker from Chaudhary Charan Singh University, Meerut, Uttar Pradesh, Prof. Pawan Kumar Sharma.

Prof. Pawan Kumar Sharma unfolded the meaning of Indic and exhibited its salience in his mesmerizing ways citing references and examples that made its emotional chord with the audience. Appreciating the role of India from its ancient civilization to the contemporary times, Prof. Sharma asked the students and scholars to imbibe the cultural heritage of the nation without being swayed away from the blows of modernization and westernization in the name of globalization. Prof. Himanshu Roy critiqued the colonial and the left historians in presenting a distorted version of rich Indian history and culture. Emphasizing the beauty of Indian traditions and conventions, including its social and cultural fabric like caste and community, Prof. Himanshu Roy asked the young scholars to expose the mischievous designs of the colonial and left historians and spread the rich attributes of Indian history and culture.

CGS Ambassadorial Lecture Series
The Centre for Global Studies took the initiative of expanding its horizons and engaging with issues at the global level by initiating the first of its kind the 'CGS Ambassadorial Lecture Series'. The vision of this

culmination is to usher an academic journey to explore and understand dynamics of other states and their relation with Indian state. Under the series, the

Centre organized three ambassadorial lecture series inviting Indian High Commissioners/Ambassadors from Uzbekistan, Vietnam and Ethiopia.

Fourth Atal Bihari Vajpayee Memorial Lecture
Centre for Global Studies, University of Delhi organized the fourth lecture of the series 'Atal Bihari Vajpayee Memorial Lecture' on Saturday, 25 December 2021. This lecture is held on the occasion of his Birth anniversary, which is also celebrated as Good Governance Day. The theme of the lecture was Bharatiya Rajneeti ka Atalvadi Drishtikon: Suchita, Satyanishtha evam Samaveshita. Centre for Global Studies is the only centre in University of Delhi to organize a dedicated lecture series since 2018 to commemorate the contributions of our late Prime Minister Atal Bihari Vajpayee. The lecture series celebrates the basic essence of 'Atalism' by focusing on the values and principles that he emphasized in his distinguished political life. The keynote speaker of the event was Dr. Sudhanshu Trivedi, Hon'ble Member of Parliament from Rajya Sabha. He elucidated on the landmark events of his political tenure. He is one of the few Prime Ministers who became a leader before leading the responsibilities of Prime Minister. He carved out a way in making India a nuclear power, by initiating a preemptive Pokhran operation before Pakistan. He used his intelligence to maneuver the economic sanctions and convinced the Indian diaspora to invest in India. Consequently, they started investing in Indian infrastructure, particularly roads and housing. This led to a rise in the price of steel and cement, which safeguarded the economic interest of India at the time of crisis.

Samiksha 2021: Assam and West Bengal Workshops
Under the banner of Samiksha series, the Centre organized a three-phase study of Assam and a seven-phase study of West Bengal assembly elections during March-April 2021. With the help of the post-graduate students of Political Science, University of Delhi along with various other colleges and universities of Assam and West Bengal, the Centre conducted its second online election study gauging the voting behaviour of the two states during the



course of assembly election. Covering all 292 constituencies of West Bengal and 126 constituencies of Assam with 14968 samples collected in both online and offline modes, the Centre projected the survey results of the two states on 29 April 2021.

Yoga Day Celebration
The Centre celebrated the International Yoga Day on Monday 21 June, 2021 with gusto and vigor. The celebration commenced with an hour Yogasan at 8:00 am followed by an hour of online and offline discussion on the theme 'Yog Kare Nirrog' from 9:00 am onwards. The celebration was facilitated by Prof. Sunil K. Choudhary, Director dcrc with utmost humility and fervor. The Yoga session was conducted by Dr. Bhuwan Kumar Jha, fellow dcrc at the Centre itself, abiding the strict guidelines of COVID Protocol. The session included 'Surya Namaskar' and the 'four aasans of pranayama'. Anulom-Vilom, used in the practice of Hath Yog, Bhramari Pranayama for soothing the nervous system were few of the exercises enjoyed by the students and the teachers alike.

Hindi Diwas Celebration-
The Centre celebrated Hindi Diwas with great fanfare and gaiety on 14 September 2021 in the august presence of the Dean of Colleges, Prof. Balram Pani. Releasing the 36th issue of Centre's Monthly Hindi Magazine, Sanchayan, Prof. Balram Pani congratulated the Editorial Team for imparting consistency and continuity to the Centre's painstaking endeavours in the promotion of Hindi language both in academic research and social realm. Hindi, according to Prof. Pani, has the distinct characteristics of accepting diversity and accommodating plurality of the languages in the country. Initiation, not imposition, should be the hallmark of spread of the languages which are the essence of our country, stated Prof. Pani.
vii) International Non-Violence Day Celebration
With the changing nomenclature and stature from local to global, the Centre has also transformed its way of celebration. Expressing tribute to the Father of Nation on his 152nd birth anniversary, the Centre celebrated International Non-Violence Day on 2 October 2021 amidst the presence of Fellows and Faculty, Scholars and Students with their family members. This day is celebrated by the United Nations to commemorate Mahatma Gandhi's vision of a Non-Violent Society based on the principles of

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Truth and Satyagraha. Like the ideals of Mahatma Gandhi, the Pratham Sevak of the Centre too believed that true demonstrations of non-violence could be seen amongst the children who in the words of Gandhiji are the true torch bearers of New India.

Publications

Choudhary, S. K., (2021). India's Changing Agrarian Democracy. *Globalence: A Journal of Social Science Research* [Reprint], 2, III, 14, 7.

Journals

Choudhary, S. K., (2022), *GlobaLense: A Journal of Social Science Research*, Centre for Global Studies [Formerly Developing Countries Research Centre], 1, IV, 66.

Choudhary, S. K., (2021), *GlobaLence: A Journal of Social Science Research*, Centre for Global Studies [Formerly Developing Countries Research Centre], 2, III, 52.

Books/Chapter in Books

Jha, B. K., (2021). *Nation First: 82 Years of Glorious Service to the Nation 1939-2020*. Delhi, Rupa . 413

Singh S. & Kumar R., (2021). *Indian Higher Education System: A Study from Ancient to Modern Age*. New York, Nova Science Publishers, Inc., New York. 26

Seminars Organized organized by the Centre

Interpreting the Idea of Indic, Prof. Pawan Kumar Sharma Prof. and Head, Department of Political Science, Chaudhary Charan Singh University, Meerut, UP, 04-09-2021, 04-09-2021, Centre for Global Studies

Bharatiya Rajneeti ka Atalvadi Drishtikon: Suchita, Satyanishtha evam Samaveshita, Shri Sudhanshu Trivedi, Hon'ble Member of Parliament, 25-12-2021, 25-12-2021, Centre for Global Studies

Seminar/Conference

(National/International)

Choudhary, S. K., (2021, November 16). *Indian Polity. 2nd Special Course for Diplomats from the Gambia and Guinea Bissau*. Sushma Swaraj Institute of Foreign Service, Ministry of External Affairs, Government of India, New Delhi.

Choudhary, S. K., (2021, October 21). *Indian Agrarian Democracy and Democratic Protests: Nihang Killing*

Presentations



and its Aftermath. Jagran Vimarsh, Dainik Jagran, Noida, Uttar Pradesh.

Choudhary, S. K., (2021, June 1). India's Electoral Democracy: A Changing Perspective. Post-Covid World: Society, Politics and Economy, International Lecture Webinar Series [in Hindi]. Department of Political Science, Motilal Nehru Evening College, University of Delhi.

Choudhary, S. K., (2021 January 23). Subhas Chandra Bose: An Indian Alexander. National Webinar on An Indian Pilgrim: The Life and Relevance of Netaji [in Hindi]. Regional Outreach Bureau, Patna, Information and Broadcasting Ministry, Government of India.

Choudhary, S. K., (2021, January 19) Addressing Governance in Global South', 47th Refresher Course in Political Science, Law and Public Administration. UGC Human Resource Development Centre, Jawaharlal Nehru University, New Delhi.

Other Inter-Institutional Collaborations

Collaborated with Chaudhary Charan Singh University, Meerut, Uttar Pradesh and many other Colleges and Institutions of Higher Learning from Uttar Pradesh and Punjab with the Centre's CGS Samiksha: UP and Punjab Assembly Elections' Survey during February-March 2022.

No. of Students under Exchange Programme
Approximately 100

Placement Details (Placement Details)

One time hands on learning as part of empirical investigations

Other Significant Information

The Centre has been continuously publishing its Monthly Hindi Magazine, Sanshleshan since August 2018. It has published 43 issues of the Magazine till March 2022.

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

Major Activities and Achievements

Centre for Innovation in Infectious Disease Research, Education, and Training (CIIDRET) was established under the ordinance XV-A of the University of Delhi in October 2015. In the six years since inception, as per its mandate, CIIDRET has carried out path-breaking Innovation-driven translational research in Infectious diseases for improved human health. This has included development of novel therapeutic antibodies for COVID-19, innovative diagnostics for tuberculosis and chikungunya. Besides this, CIIDRET has been carrying out outreach activities involving interaction with college students of science stream to inspire them to take up research as their career. CIIDRET has organized Public Lectures by international and national scientists who are leaders in their field in different research areas. CIIDRET also encourages Industry-Academia Interaction through 'Entrepreneurship Guest Public Lecture Series', wherein Entrepreneurs and the facilitators of Innovation have given lectures. CIIDRET provides

state-of-the-art Proteomic and Genomic analytical services along with expert advice to scientists, and offers consultancy to the Biotech Industry. CIIDRET organizes Hands-on training courses covering

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different aspects of Genomics and Proteomics in collaboration with Industry Experts under the scheme 'Continuing Education and Skill Enhancement for Innovation in Biotechnology (CIIDRET-CESEIB). These courses are attended by college students, graduate students, research scholars, scientists and teachers from colleges and universities.

Prof. Vijay Chaudhary is the Founder Director of CIIDRET and following his superannuation, is continuing his association and work at CIIDRET as NASI Platinum Jubilee Senior Scientist. Prof. Yogendra Singh Department of Zoology, Delhi University who has been a member of CIIDRET since its inception, took over as Director in September 2020 and continued till March 2022. Prof. Amita Gupta, a founding core member of CIIDRET, is the current Director.

Honours/Distinctions

Dr. Vijay Chaudhary is NASI Platinum Jubilee Senior Scientist at CIIDRET. Member of Governing Council for Institution of Eminence of DU (DU-IOE), University of Delhi Director (Hon.), Delhi School for Skill Enhancement & Entrepreneurship Development (DSSEED), University of Delhi Adjunct Prof. at



Regional Centre for Biotechnology (RCB), Faridabad. Member of IP & Tech. Management Advisory Committee-BIRAC. Mentor, Nexus @ American Center, New Delhi. (<https://startupnexus.net/mentors>). During 2021-22, Dr. Vijay Chaudhary has been Co-Chairman of the DBT Task Force on "Infectious Disease Biology." Co-Chairman of the DBT NER Technical Expert Committee (TEC) Medical Biotechnology-II. Member of Scientific & Technical Appraisal & Advisory Group (STAG), Medical Biotechnology, DBT. Member of Scientific & Technical Appraisal & Advisory Group Medical Biotechnology, DBT NER. Member, DBT Expert Group on Technology Transfer Organization (TTO). Prof. Amita Gupta, is University representative in Governing Body of Rajdhani College of Delhi University Vice President of the Society for Bacteriophage Research and Therapy (SBRT).

Publications

Arun Sharma Kalpana Sagar, Neeraj Chauhan, Balaji Venkataraman, Nidhi Gupta, Tannu Priya Gosain, Nikhil Bhalla, Ramandeep Singh and Gupta, A, (2021), HigB1 Toxin in Mycobacterium tuberculosis is upregulated during stress and required to establish infection in Guinea pigs, *Frontiers in Microbiology*, NA, 12, 748890, NA

Koh, C.Y., Koh CY, Shih N, Yip CYC, Li AWL, Chen W, Amran FS, Leong EJE, Iyer JK, Croft G, Mazlan MIB, Chee YL, Yap ES, Monroe DM, Hoffman M, Becker RC, de Kleijn DPV, Verma V, Gupta, A, Chaudhary VK, Richards AM, Kini RM, Chan MY, (2021), Efficacy and safety of next-generation tick transcriptome-derived direct thrombin inhibitors, *Nature Communications*, 1, 12, 6912.

Books/Chapter in Books

1. Shahanshah, FH., Sehrawat, H., Wijewardana, C., Pal, S., Gupta, A., Diwan, P., Gupta, S., and Gupta, V, (2021), Recent Advances in Chikungunya Virus Therapeutics: An Overview. Chapter in book entitled " Chikungunya: Epidemiology, Transmission and Therapeutics, USA, Nova Science Publishers, Inc. (USA)., 978-1-53619-978-9, 83

Sehrawat, H., Shahanshah, FH., Wijewardana, C., Pal, S., Chaudhary VK., Gupta, S., and Gupta, V, (2021), Progress on Immunotherapy and Immunoprophylaxis of Chikungunya Virus. Chapter in book entitled " Chikungunya: Epidemiology,

Transmission and Therapeutics, USA, Nova Science Publishers, Inc. (USA)., 978-1-53619-978-9, 57

Research Projects

Department of Biotechnology, Govt. of India, 2021/3 years, Understanding the Role of Ser/Thr Protein Kinases in the regulation of Toxin-Antitoxin Loci in *Mycobacterium tuberculosis*, 123

Department of Biotechnology, BIRAC, Govt. of India, 2020/33 months, Therapeutic Antibodies for COVID-19, 1650

Department of Biotechnology, Govt. of India, 2017/5 years, Centre of Excellence entitled "Antibody Technology: Research for therapeutic and diagnostic application, 608

Department of Biotechnology, Govt. of India, 2018/4 years, DBT-supported Genomic Facility at University of Delhi South Campus, 247

Department of Biotechnology, Govt. of India, 2018/54 months, Identification of mycobacterial proteins and novel antigenic epitopes having immunodiagnostic potential and development of reagents for point of care test for tuberculosis (with NITRD as collaborator), 82

Patents Filed

2 and An antibody fragment library, and uses thereof; EP application number - 18882787.7, Filed on 29/06/20 An antibody fragment library, and uses thereof; US patent application number -16/768,116, Filed on - 29/05/2020

Seminar/Conference

(National/International)

Prof. Vijay K. Chaudhary delivered Lecture "Phage-Displayed Recombinant Antibodies- A Disruptive Technologies for Novel Therapeutic Molecules", International Conference "Biotechnological Interventions to Overcome the Challenges of Covid/Post-Covid Era "BIOCoPE-2022" Amity Institute of Biotechnology, Amity University Rajasthan, March 24-25, 2022 (Online).

Prof. Amita Gupta, delivered an inspiring lecture (online mode) on Science Day, 28 February 2022, at Miranda House, DU on the topic: "NEVA – A Technology for rapid diagnostics".

Presentations



Prof. Vijay K. Chaudhary delivered a lecture on “Antibodies”- Ek Naam, Anek Kaam (Antibodies- एक नाम, अनेक काम) at Mikrovitae 2022, the Annual Festival of the Department of Microbiology, Ram Lal Anand College, University of Delhi, 25th of February, 2022.

Prof. Vijay K. Chaudhary delivered a lecture on “Phage-Displayed Human Antibody Library – A resource for discovery of next-generation antibody therapeutics” at the Society of Biological Chemists, India 2021, Amity University Gurugram, 18 December 2021.

National/International MoUs Signed

Collaboration with Prof. M. Kini at National University of Singapore to develop human antibodies for clinically relevant peptide. This work led to a publication recently in Nature Communications.

MoU signed between University of Delhi South Campus (UDSC) and Gennova Biopharmaceuticals

Limited, Pune for development of Therapeutic antibodies to COVID-19.

Other Inter-Institutional Collaborations

Collaboration with Prof. Ramandeep Singh at THSTI, NCR Biotech Cluster, Faridabad to understand role of TA loci in Mycobacterium pathogenicity. This work led to a publication recently in Frontiers in Microbiology.

Extension and Outreach Activities

One M. Sc student of Jamia Millia Islamia carried out dissertation research work at CIIDRET, UDSC. She was trained in cloning, expression and purification of SARS-CoV2 proteins.

Organized Student Workshop on “Techniques for manipulation of nucleic acids for applications in Genomics”, from March 11-21, 2022 at University of Delhi South Campus, New Delhi. In this, Hands-on training was provided to 20 students for isolation and purification of chromosomal and plasmid DNA, and Automated Capillary-based Sanger DNA Sequencing

CENTRE FOR INTERDISCIPLINARY STUDIES FOR MOUNTAIN & HILL ENVIRONMENT

Brief History

The Centre for Inter-Disciplinary Studies of Mountain & Hill Environment (CISMHE) was set up under the Board of Inter-disciplinary Programmes of the University of Delhi in January 1990 with Dr. Virendra Kumar as its Founding Director. The objective of the Centre was to undertake location-specific studies on different issues related to the environment and sustainable development. The concept of the Centre revolves around the idea that the upland areas play a crucial role in the production and regeneration of natural resources like fresh water, and forests, besides sustaining a rich genetic diversity of plant and animal life. These natural resources have increasingly witnessed ecological stress and as a result, there have been both short- and long-term implications on the resource generation capability and the ecological equilibrium of these ecosystems. Given CISMHE's objectives, an elaborate research programme has been initiated with the help of grants from Government and public sector undertakings.

Major Activities and Achievements

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



collaborators 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.

Honours/Distinctions

Prof. Maharaj K. Pandit, Director International Member of the American Academy of Arts & Sciences Ngee Ann Kongsi Distinguished Visiting Prof., National University of Singapore Indian (INSA) representative at BRICS Academy of Sciences Indian (INSA) representative at G20 Science Academies

Publications

Sharma M., Kaushik, R., Ramana, C.V. and Pandit, M.K., (2022) . *Paludisphaera soli* sp. nov., A new member of the family Isosphaeraceae isolated from high altitude soil in the Western Himalaya; A possible bio-control against exotic invasive *Prosopis juliflora*. *Journal of Science*, 3, 5, 5-8.

Kumar Manish, Maharaj K Pandit, Sandeep Sen, (2022). Inferring the factors for origin and diversifications of endemic Himalayan flora using phylogenetic models. *Modeling Earth Systems and Environment*, 2, 8, 2591-2598, 3.

Meyerson, L. A., Pauchard, A., Brundu, G., Carlton, J.T., Hierro, J.L., Kueffer, C., Pandit, M.K., Pyšek, P., Richardson, D.M. & Packer, J.G., (2022). Moving Toward Global Strategies for Managing Invasive Alien Species. *Global Plant Invasions*, 1, 1, 331-360, 2.

Kaushik, R., Pandit, M.K., Meyerson, L.A. & Sharma M., (2021). Contrasting composition, diversity and

predictive metabolic potential of the rhizobacterial microbiomes associated with native and invasive *Prosopis* congeners. *Current Microbiology*, 6, 78, 2051-2060, 4.

Goodale, E., Mammides, C., Mtemi, W., Chen, Y. F., Barthakur, R., Goodale, U. M., ... & Bawa, K. S., (2022). Increasing collaboration between China and India in the environmental sciences to foster global sustainability. *Ambio*, 6, 51, 1474-1484, 1.

Research Projects

WAPCOS Ltd., Gurugram, Haryana, 2021-22, Ecological Study for EIA Study for Sileru Pump Storage project, Andhra Pradesh for monsoon season, 5.16+GST

WAPCOS Ltd., Gurugram, Haryana, 2021-22, Ecological Study for EIA Study for Bokang Bailing HE project, Uttarakhand, 4.20+GST

WAPCOS Ltd., Gurugram, Haryana, 2021-22, Ecological Study for EIA Study for Bardang, Reoli Dugli and Purthi HE project, Himachal Pradesh, 4.20+GST

UJVN Ltd. Uttarakhand, 2021-22, Revalidation of Fishery Survey for Sirkari Bhyol Rupsiabagar HE Project, Uttarakhand, 3.00+GST

Other Inter-Institutional Collaborations

WAPCOS Limited, Gurgaon
RS Envirolink Technologies, Gurgaon

CENTRE FOR PROFESSIONAL DEVELOPMENT IN HIGHER EDUCATION (CPDHE)

Brief History

Centre for Professional Development in Higher Education (UGC-HRDC) is committed to provide opportunities for professional and career development to teachers across the various universities of India. CPDHE was established in 21st November 1987. It has illustrious record of 34 years of service to the teaching profession. Keeping in view the role of higher education in national development, CPDHE helps in building competence in the areas of research methodologies and pedagogy, expansion of technologies in the field of ICT, Science and

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Technology, Environment and Education. For making higher education centre hub of academic activity, CPDHE has envisaged new multidimensional and integrative role, through re-engineering Professional Development Programmes for teachers.

Major Activities and Achievements

Centre for Professional Development in Higher Education (UGC-HRDC) is committed to provide opportunities for professional and career development to teachers across the various



universities of India. CPDHE was established in 21st November 1987. It has illustrious record of 34 years of service to the teaching profession. Keeping in view the role of higher education in national development, CPDHE helps in building competence in the areas of research methodologies and pedagogy, expansion of technologies in the field of ICT, Science and Technology, Environment and Education. For making higher education centre hub of academic activity, CPDHE has envisaged new multidimensional and integrative role, through re-engineering Professional Development Programmes for teachers. CPDHE organizes workshops for faculties involved in university and college administration and 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 achieve excellence in Higher Education.

CPDHE is one of the best HRDCs in the country and is reputed for its dynamic and interdisciplinary programmes round the year. Thus it leads an example for other HRDCs through its innovative practices and has created a niche for itself in the country than any duplication of work. It is very much reflected from the number of applications it receives per course per year. Thus CPDHE tries to have the most innovative and vibrant courses and practices (as per the feedback of the resource persons and participants). In accordance with the UGC Guidelines, the curriculum of every programme is carefully framed keeping Indian educational philosophy and goal of national integration at its core. Aimed at contributing to the overall professional development and intellectual growth of the teachers, these courses in turn also helps in development of students through their teachers' growth. Teacher attending courses here learn about the most effective teaching methodology and ways of designing creative curriculum. These courses encourage teachers also to integrate ICT, e-learning methods while teaching which not only captures young minds but also further perpetuates the capabilities of students. This further motivates the faculty to improve upon their classroom teaching methods by making them interactive/innovative sessions and thereby creating a transformative space of dialogue for enriched teaching-learning process.

Despite the on-going pandemic situation, CPDHE has
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efficiently been able to organize 3 online short-term courses/workshops on “E-content Development and Online Pedagogy”, “MOOCs, Online Courses & Open Educational Resources” and “E-content/MOOCs Development & Delivery” under the broad theme of “ICT Tools for Online Teaching” and received an enthralling response from across the country. The centre is looking forward to developing the best online platforms of learning which could reach out to the maximum teachers even those located in rural settings. CPDHE is one of the main centres for training not only the faculty of Delhi University college or departments but for the thousands of faculty located in the nearest to the farthest corners of the country who are currently not connected to the mainstream academia.

Honours/Distinctions

Awarded ‘Radhakrishnan Teacher Innovation Award 2021’ by Madhumay Educational and Research Foundation, Ayodhya, Uttar Pradesh, 3rd April 2022.

Books/Chapter in Books

1. Singh G. (Ed.) (2020). Nagarikta sanshodhan adhiniyam tathya evam satya: ek bauddhik vimarsh. New Delhi, Prabhat Prakashan.

Patents Granted

Seminars Organized by the Centre

Guru-Dakshta Faculty Induction Programme (FIP-1) (2021, August 5-8). UGC.

Guru-Dakshta Faculty Induction Programme (FIP-2), (2021, August 5-8). UGC

Refresher Course on Mathematics/ Operational Research/ Statistics and Computer Science (IMD) Theme: Complex Function Theory (2021, October 4-18). UGC

Refresher Course on Physics (SRC) Theme: Recent Trends in Physics (2021, October 4-18). UGC

Atmanirbhara Bharata: भारतीय ज्ञान परंपरा - An Online Faculty Development Programme in India's Knowledge Systems (IKS): Sources, Theories, Concepts and Practices” (2021, Nov 16-Dec 07). Rashtram School of Public Leadership, Rishihood University, Sonipat.



Refresher Course on Economics, Commerce and Business Management (IMD). (2021-22, Dec 27-Jan 08). UGC

Refresher Course on Indian Folklore, Culture and Traditions (IMD). (2021-22, Dec 27-Jan 08). UGC

Refresher Course on Gender Studies (IMD) Theme: मातृशक्ति, राष्ट्रशक्ति (2022, Feb 17- Mar 03). UGC

Refresher Course on Indian Philosophy (IMD) Theme: भारतीय दर्शन: संस्कार, संस्कृति, शिक्षा एवं वैश्विक पहचान (2022, Feb 17- Mar 03). UGC

Short Term Course on Implementation of National Education Policy (NEP) 2020 (1) Theme: राष्ट्रीय शिक्षा नीति 2020 द्वारा नवभारत निर्माण (Making of Nav Bharat through NEP-2020) (2021, October 20-26). UGC

Short Term Course on Innovative Teaching Methodologies and Use of ICT in Teaching (2021, December 15-21). UGC

Workshop on MOOCs, E-content Development and Open Educational Resources (2021-22, Dec 15, September 21.). UGC

Short Term Course on Leadership Building and Communication Skills (2022, January 14-20). UGC

Short Term Course on Research Methodology (2022, January 14-20). UGC

Short Term Course on Academic Leadership Program for Academicians Theme: Implementation of National Education Policy (NEP) 2020 (राष्ट्रीय शिक्षा नीति 2020 क्रियान्वयन), NA, NA, 07-03-2022, 09-03-2022, UGC

Seminar/Conference Presentations (National/International)

Chaired a seminar presentation in the online "Guru Dakshta" Faculty Induction Programme on 26.03.2022 organized by UGC - Human Resource Development Centre, Lakshmi Bai National Institute of Physical Education, Gwalior, Madhya Pradesh.

Delivered a valedictory address in the online Faculty Induction Programme on 15.12.2021 organised by UGC-HRDC, Kumaun University, Nanital, Uttarakhand.

Delivered a valedictory lecture in the online 3rd Refresher Course in Gender Studies (ID) on 30.09.2021 organized by UGC - Human Resource Development Centre, Jamia Millia Islamia.

Gargi Lecture Series organised by Gargi (2021, August 18). Centre for the Holistic Development of Women, Dr. Babasahed Ambedkar Open University.

(2021, August 14). One Day National Level Virtual Symposium on AYODHYA: The land of Philosophy, Culture and Opportunities Centre for Socio-Cultural Studies & Research and South Asian Institute for Advanced Research & Development.

Faculty Strength

One permanent faculty (Director)

CLUSTER INNOVATION CENTRE

Brief History

The University of Delhi started Cluster Innovation Centre (CIC) in 2011 to inculcate a culture of innovation in educational pedagogy. The Centre initiated multidisciplinary courses, followed inclusiveness, imparted necessary skills and enhanced the knowledge base of students by following a hands-on activity approach. The courses at CIC enhance creative potential of students, have innovative curriculum, are more project oriented and

tailored to the need of society and industry. The Centre had been designed to seek and drive innovations from industrial clusters, village clusters, slum clusters and educational clusters. CIC fosters a strong culture of research and knowledge generation. The students are actively engaged in projects that have helped them immensely for either their pursuit of higher education or employability. The project based multi-disciplinary courses help



them to build necessary skills and knowledge base to solve real world problem and adopt the out-of-the-box thinking approach.

Major Activities and Achievements

B.Tech. (Information technology and Mathematical Innovations) events:

Cluster Ingenuity Chase (Coding, Quiz and treasure hunt event) (2022, May 5). Kaushik M. & B.Tech. first year students, Cluster Innovation Centre, University of Delhi.

A hands-on workshop on Git and Github (2022, June 17).

Kaushik M. (Prof.), Chopra, S. Priyadarshi, N. second-year students, Cluster Innovation Centre, University of Delhi.

Interaction cum Workshop on Internship Opportunities CIC Think Beyond Exams – Challenge: (2022, June 2). Pankaj Baranwal, founder and CEO at Think Beyond Exams. Bagai, S., Cluster Innovation Centre, University of Delhi.

Prabhakar (Lead Game Developer, MMR Game Studios) & Rohit (AR Generalist, experiential ETC) An Introduction to Game Dev, XR and Metaverse: An interactive workshop on Game Development for CIC (2022, June 4). CIC Alumni, Cluster Innovation Centre, University of Delhi. [Faculty Organizers: Dr. Anjani K. Verma, Dr. Harendra Pal Singh Dr. Asani Bhaduri] Workshop on Robotics (2022, July 15). B.Tech. students of CIC, Prof. Shobha Bagai, University of Delhi.

Humtsoe, K., (2021, September 20). Gender Sensitization Workshop. B.A. (Huss), Cluster Innovation Centre, University of Delhi.

Kala, G., (2022, February 27). Heritage Walk. Cluster Innovation Centre, University of Delhi.

MME events:
Workshops organised on Innovative mathematic pedagogy

Honours/Distinctions

DR. J S PUROHIT International Academic committee Expert of Junior Science Olympiads 2021 held in *University of Delhi: 99th Annual Report 2021-22*

Dubai, UAE (December 12-21, 2021). International Judge for UA, Global Undergraduate Innovation Awards organized by 18 Fitzwilliam Square, Dublin 2, D02 CY65, Ireland, 2021-22.

Publications

Singh A. Verma, S. Modak, SV Chaturvedi, MM. Purohit, JS, (2022). Extra-nuclear histones: origin, significance and perspectives. *Molecular and Cellular Biochemistry*, 2, 477, 507-524, 1.

Panda, PP. Bohot, M. Chaturvedi, MM. Purohit, JS., (2021). Purification and partial characterization of vinculin from chicken liver nuclear extract. *Biologia*, 4, 76, 1349-1357, 1.

S Verma, S. Purohit, JS. Arora, A. Sinha, S. Chaturvedi, MM, (2021). Liver regeneration: metabolic and epigenetic regulation. *Hepatoma Research*, 7, 16, 1-14, NA

Patel, A., Bagai, S. and Kumar M, (2021), Heat and mass transfer in a two-sided lid-driven square cavity with non-uniform sinusoidal heating on horizontal walls. *European Physical Journal Plus*, 136, 1034, 1.

Bagai, S., (2022), Scrutinizing String Art Through a Mathematical String. *PRIMUS*.

Chaudhary, S., SinghA., KumarP. & Kaushik, M., (2021). Strategic targeting of non-small-cell lung cancer utilizing genetic material-based delivery platforms of nanotechnology. *Journal of Biochemical and Molecular Toxicology*, 7, 35, NA, 6.

Sonia, Komal, Kukreti, S., Kaushik, M., (2021), Gold Nanoclusters: An Ultrasmall Platform For Multifaceted Applications, *Talanta*, NA, 234, 122623, 5.

Nain, N. SinghA., Khan, S., Kaushik, M. & Kukreti, S., (2021). Structural Switching /polymorphism by sequential base substitution at quasi-palindromic SNP site (G→A), in LCR of Human β -globin Gene cluster. *International Journal of Biological Macromolecules*, NA, 201, 216-225, NA.

Sonia, SinghA., Bora, S., Kukreti, R., Kukreti, S. & Kaushik, M., (2022). Probing multifunctional azure B conjugated gold nanoparticles with serum protein binding properties for trimodal photothermal, photodynamic, and chemo therapy: Biophysical and



photophysical investigations. *Biomaterials Advances*, 134, 112678.

Singh H. P., Arora, S., Jain, A., Arora, N., Singh A. & Pal, R., (2022). Systematic study of Indian railways subnetwork: Zone specific analysis. *Palestine Journal of Mathematics*, NA, 11, 151-161, NA.

Kumari, P., Singh S. & Singh H. P., (2021). Bifurcation and stability analysis of glucose-insulin regulatory system in the presence of β -cells. *Iranian Journal of Science and Technology, Transactions A: Science*, NA, 45, 1743-1756.

Singh H. P., Arora, S., Jain, A., Arora, N., Singh A. & Pal, R. (2022). Systematic study of Indian railways subnetwork: Zone specific analysis. *Palestine Journal of Mathematics*, NA, 11, 151-161, NA.

Dutt, A. & Muzahir, Mohd., (2021). Professional development: from the perspective of science teacher. *Kanpur Philosopher- International journal of humanities, law, social sciences, I(B)*, VIII, 334-338.

Dubey, N. et al., (2021). Mycobacterium tuberculosis PPIA interacts with host integrin receptor to exacerbate disease progression. *Journal of Infectious Diseases*, 224, 8, 1383-1393, 1.

Singh A. et al., (2021). Comparative genomic analysis of Mycobacteriaceae reveals horizontal gene transfer mediated evolution of CRISPR-Cas system in the Mycobacterium tuberculosis complex. *mSystems*, 6, 1, e00934-20, 4.

Books/Chapter in Books

Chaudhary, S., Kumar M., Ahmed, S. & Kaushik M., (2021). Detection and Removal of Heavy Metals from Wastewater Using Nanomaterials. In *Pollutants and Water Management: Resources, Strategies and Scarcity* (241-272). New York, John Wiley & Sons.

Tanwar, S., Sharma R., (2021). Modelling and Structural Analysis for Prosthesis Hip Design Using ANSYS with Finite Element Method (287-297). Singapore, Springer.

Research Projects

University of Delhi, 2021-22, Developing Mathematical Kits to Visualise UG Mathematics, 1,75,000

University of Delhi, 2021-22, Impact of robots on the spread of COVID-19, 3,00,000

University of Delhi, 2021-22, Performance and cost analysis of modified hybrid solar distillation systems incorporating nanofluids, 3,00,000

SERB, DST, 2019-22, Physico-chemical Investigations of the binding interactions of NHE inhibitors (Rimeporide, Amiloride and Cariporide) with APOE3/APOE4 isoforms of human APOE gene, 18,30,000

Institution of Eminence, University of Delhi, 2021-22, Synthesis, characterizat-ion & applications of oligonucleotide conjugated drug loaded polymeric nanoparticles for targeted drug delivery in lung cancer, 3,00,000

Seminar/Conference (National/International)

Presentations

Bagai, S. (2021, April 9). Application of Group Theory in Solution of Rubik's Cube. Symposium on Real Life Applications of Abstract Mathematical Concepts, Mathematics Symposium, St Stephen's College, University of Delhi.

Bagai, S., (2021, April 16). New Education Policy 2020 and its implications on Mathematics. Webinar on New Education Policy, JDM College, University of Delhi.

Bagai, S., (2021, June 19). Reconstructing the University Admissions in the wake of Pandemic-Decoding NEP, Amrita Vishwa Vidyapeetham.

Bagai, S., (2021, 2 August). Application of Fourier Transform in Signal and System" Faculty Development Programme on Advances in Sensing, Information Flux and Security, Amity University, Patna,.

Bagai, S., (2021, August 7). How not to lie with Statistics: Using Statistics honestly, Faculty Development Programme on MOOCs, E-Content Development, Research Methodology and Statistical tools in Open Education World. Kalindi College, University of Delhi.

Bagai, S., (2021, August 24). Decoding NEP: Redefining Goals and Pedagogies of Today's



Education for the World of Tomorrow, Daulat Ram College, University of Delhi.

Bagai, S., (2021, September 6). Mathematics Education in the Context of NEP 2020, Refresher Course in Mathematics, Ramanujan College, University of College.

Bagai, S., (2021, September 17). Project Based Learning: A Different Way to Explore Engineering, Webinar, Christ University, Bangalore.

Bagai, S., (2021, October 28). Mathematical Models in Biochemical Kinetics and their Stability Analysis, Faculty Development Programme, Christ University, Bangalore.

Bagai, S., (2022, March 7). Statistical Tools. Faculty Development Programme on Designing and Development of MOOCs and Application of Research on Digital Platforms, Hansraj College, University of Delhi.

Bagai, S., (2022, March 7). Mathematical teaching and assessment using e-platform", Faculty Development Programme on Designing and Development of MOOCs and Application of Research on Digital Platforms, Hansraj College, University of Delhi.

Bagai, S., (2022, March 11). Introduction to Keller Box Method, Faculty Development Programme on Computational Methods in Boundary Layer Theory. M.S. Ramaiah Institute of Technology, Bengaluru.

Bagai, S (2022, March 12). ., Application of Keller Box Method to Nanofluid Flow, Faculty Development Programme on Computational Methods in Boundary Layer Theory. M.S. Ramaiah Institute of Technology, Bengaluru.

Dawa, D., (2021, October 5). Application Of Gis & Remote Sensing In Geology, Department Of Geology, University Of Ladakh.

Bhaduri, A., Advisory Member and Part of Organising Team in DEEP-C workshop on 'Public Health in Urban Settings' 2021.

Mir, S., (2022, May 23-25). Geography Of Virtual Worlds; A Case Study Of The Second Life Digital Platform, International Online Conference.

Department of Geography, Delhi School of Economics, University of Delhi.

Kumar A., Jury Member, National Level Website Development Competition under SPECTRA 2021. Gujranwala Guru Nanak Khalsa College, Civil Lines, Ludhiana, Punjab, India. 25th June 2021.

Kumar A., (2021, December 7). Resource person for Technical Session, Webinar on Technological advancements of physics in artificial intelligence. Department of Physics, GGN Khalsa College, Civil Lines, Ludhiana, Punjab, India.

Dutt, A., (2022, December 17-18). Role of NEP in Higher Education and job prospects in academia, 1st International Conference on Emerging Issues in Business and Economic Research. Department of Commerce, Rajdhani College, University of Delhi.

National/International MoUs Signed

National MOU with AJKMC, JMI
Placement Details (Placement Details)
MME Batch 2021-22: 75% B. TECH. (IT & MI) Batch 2021-22: 81.25% [Placement], 18.75% [Higher Studies/ Preparation for Higher Studies] B. A. (HUSS) Batch 2021-22: 100% [Higher Studies/ Preparation for Higher Studies]

Extension and Outreach Activities

B.A.(Huss) Events:
Gender Sensitization Workshop by Ms. Khyothunglo Humtsoe, 20th Sept, 2021.
Heritage Walk by Ms. Geetanjali Kala, 27th Feb, 2022.

MME events:
Workshops organised on Innovative mathematic pedagogy.
Workshops organised by students for secondary & senior secondary students of Government schools of Delhi.

Faculty Strength

20

Other Significant Information

Dr. Asani Bhaduri
Member Secretary, NEP Interdisciplinary Courses Committee, University of Delhi (2020-2022).
Published two poetry books :
A). Obosader Nirabhoron Kothaguli (The inarticulate



lines of melancholy) 2022, ISBN: 978-81-951621-3-0. Published by Kubopakhi Prokashan.
B). Crazy Country (A collection of limericks) 2021,

ISBN: 978-81-943731-0-0, Published by Unific Publishing House, An Imprint of Delhi Greens

DELHI SCHOOL OF JOURNALISM

Brief History

Delhi School of Journalism (DSJ) is a young department of University of Delhi. It was setup in the year 2017 with a vision to identify and nurture aspiring journalists and enable them to become a driving force for a quality driven public sphere and information economy and thereby promote democracy and development in the truest sense.

Major Activities and Achievements

Faculty Editor for Pravah the monthly newsletter of DSJ

Quiz Society DSJ, faculty convener
Sports Society DSJ, faculty convener
Develop and implement innovative instructional methods.

Develop professional logistics to improvise student performance.

Guide, lead and mentor students in projects and Masters Dissertation

Evaluate, monitor and mentor student academic progress.

Participate in departmental and college activities.
Serve and support functional activities of departmental committees.

Assess, review and evaluate student activities and progress.

Member departmental core committee overseeing

NEP Syllabus revision and Implementation

Publications

Hasan, H., (2021). Issue of gender and violence in Graphic fiction: Raj comics universe and the depiction of female characters and violence. Journal of Women Empowerment and Studies (JWES), Vol. 1 No. 02 (2021): Oct - Nov 2021, Vol.1, 60-63.

Hasan, H., (2021). A Critical Study of Media Representation of Women in Sports: Construction of Narratives Around Sexuality, Male Gaze and Sexism. Journal of Women Empowerment and Studies (JWES), Vol. 2 No. 02 (2022): Feb-Mar 2022, Vol.2, 1-4.

Hasan, H., (2021). The Lethal Film Noir Femme Fatale: A Precursor to Bond Girls in James Bond Films. Journal of Women Empowerment and Studies (JWES), Vol. 2 No. 01 (2022): Dec 2021 - Jan 2022, Vol.2, 21-25.

Hasan, H., (2022). The Depiction of Rape Scenes in Popular Hindi Cinema: A Critical Examination of Representation of Gender in Media. Journal of Women Empowerment and Studies (JWES), Vol. 1 No. 02 (2021): Oct - Nov 2021, Vol.1, 42-46.

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. It is a central IT institution for the University of Delhi and one of the earliest and prestigious computer centre of the country, providing critical technology support to entire DU community including all its colleges. DUCC collaborates with University partners to advance

teaching, learning, innovation and discovery at the Delhi University.

Key responsibilities of Delhi University Computer Centre include:

Strategic planning, oversight and direction of the University's IT infrastructure, resources and services. Consulting with academic and administrative units to evaluate their IT requirements, capabilities and requests along with suggesting them the possible solutions.



Managing IT infrastructure and services of University of Delhi including academic and collaborative applications, accessible technology, administrative systems and information management, classroom technology, computing infrastructure, customer service, data centers, information security and privacy, IT services and strategic sourcing, networking, technology process continuity and telecommunications.

Working closely with the Administrative Heads, Deans, Office Bearers and appropriate governance committees (IQAC, Planning, Admissions, Examinations, Libraries etc.) to determine IT needs, policies, priorities and resource allocations.

Representing IT interests of University of Delhi at the national and international levels and collaborating with the organizations of repute at National and International levels through MoUs and other possible ways to collaborate.

During the last one year (2021-22), DUCC continued to strengthen ICT Infrastructure and Services for offices, faculties, departments and colleges of the entire University for the benefit of all the stakeholders. As the central hub for all ICT related activities:

DUCC provides the Internet and Wi-Fi connectivity across the University spanning across all campuses. The existing network is a three-tier hybrid topology network comprising of more than 100 km optical fiber cable.

The entire network has been redesigned and implemented to ensure maximum availability of network and services running on it. Wi-Fi system of DU enables internet access to all students/faculty/staff across a variety of devices like laptop, smart phones, tablets etc. DUCC provide compute, DB, Web hosting and other related services through the cloud.

DUCC is implementing Samarth e-Gov for various online services e.g., Examination Portal (Exam forms, Migration, Transcript, Degree etc.), DU results, bulk e-mailing system, Library system, UG Admissions, FSR Admissions, PG Admissions, M.Phil/Ph.D. Admissions, Recruitment etc.

At present there are servers having more than 100 Virtual Machine Instances on cloud and numerous network equipment are housed at DUCC Datacenter. DUCC also provides and manages critical services like e-mailing, more than 200 websites of more than 90 Departments & almost 60 Colleges, hostels etc.

DUCC is a nodal agency for e-procurement & GeM, Samarth, ICT Trainings etc.

DUCC takes pride in using the latest open-source technologies to provide all services to entire DU. With this approach, University is always ahead of time by using the latest/current technical advancements available in the market.

DUCC Digital Initiatives

Incorporation of Indigenous Bilingual University Website

University of Delhi incorporated indigenous bilingual website with a new robust design to facilitate all stakeholders with not only the easy access to information, but also the utilization of that information for optimum output. The University website is an authentic source of information for all users. It is accessible through following links:

www.du.ac.in www.uod.ac.in

दिल्लीविश्वविद्यालय.विद्या.भारत दिवि.विद्या.भारत
डीयू.विद्या.भारत

Enterprise Resource Planning-ERP (e-Gov)

Digitalization of DU through Samarth (e-Gov) ERP

Samarth is an Open Source, Open Standard enabled Robust, Secure, Scalable and Evolutionary Process Automation Engine for Universities and Higher Education Institutions by MHRD. It has 9 core modules and 40+ sub modules to smoothen the functioning of University processes. Samarth will help the University to migrate to a system which is secure, reliable and scalable. The University has initiated the process of Samarth implementation.

DU e-Gov Samarth

Samarth is being implemented by the University of Delhi. The objective is to provide flexible solutions with seamless integration of diverse processes to provide effective access to 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

Automation of University process

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

Campus Wi-Fi Application Campus Wi-Fi reset of password Email

No Dues Certificate.

GeM User Registration

E-Procurement User Registration

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

Medical Reimbursement

Setting up of Helpdesk / Samarth e-Gov Centre

e-Gov Centre has been established at DUCC to facilitate Students / Faculty members and Staff to get support for various services being offered by DUCC including DU eGov Samarth.

Support has been provided through dedicated Phone, WhatsApp, Email and in-Person visit.

Online OBE Examination with support of Samarth

The University conducted 'Online Open Book Examination' with the support from Samarth.

Online Admissions with support of Samarth

The University conducted Online Admissions of various UG / PG/ M.Phil. / Ph.D. courses including Foreign Students and Faculty of Medical Sciences with the support from Samarth.

Implementation of following modules for Online Facility to students

Online Digital Degree

Online application for Transcript

Usage of Plagiarism detection tool (URKUND)

Faculty members and departments have been facilitated with an online plagiarism detection tool (URKUND / Ouriginal). This is extensively being used with 1182 users and numbers are ever increasing. During last year 68,967 research papers / books were checked for plagiarism.

Microsoft Campus Licence to facilitate faculty members and students

To facilitate faculty members and staff members, campus agreement has been done with Microsoft for Operating System Windows and Microsoft Office and various other MS softwares. Microsoft Teams

facilitated faculty members to conduct various conferences and any such event.

VPN Facility for Faculty members to access e-Resources from home / anywhere

Faculty members were provided with a VPN facility so that the e-Resources could be accessed remotely from their homes or anywhere.

Email System integrated with GSuite

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

C-Panel on Cloud for website hosting for Departments / Centres / Hostels / Research Projects In order to provide different departments/faculties/colleges better experience, C-Panel - Web Host Manager (WHM) has been configured and websites are migrated to the Cloud server. The WHM platform has provided a more secure and flexible platform to the users.

Security Layer on Web-Hosting

All websites as sub-domains on du.ac.in are secured through SSL (https).

Bandwidth of 10 Gbps at both the Campuses

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

Campus Connect Project

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

Campus Wide Software



DUCC continue to provide the following Network License Software for the use of University 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)

University has also procured Microsoft Campus License which includes Windows, Microsoft Office for all Faculty members, Staff and Student Labs of various Departments.

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

Campus wide Wi-Fi was successfully launched and running across both North and South Campus. The service is available to faculty, students 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 the other side of the ring.

Live Webcasting through YouTube

DUCC has been putting up all major events of University live e.g. Annual Convocation, Foundation Day, Centenary Events etc. DUCC is also maintaining a repository of Photographs and Video as glimpses.du.ac.in.

Microsoft Campus Licences

Trainings Conducted at DUCC

DUCC has organized various Online training programs for the faculty, staff, Research Scholars, PG students, college system administrator/ technical staff covering all the verticals starting from the basic to advanced courses.

Category of training	Number of training courses organized	
	Topics	Conducted
e-governance programmes and IT projects	Samarth e-Gov ERP, UG/PG/Ph.D. Admission Portals, Examination portals for colleges, departments and students, OBE portal for administration, evaluators and students for uploading answer sheets.	59
Specialized training	Specific Modules of Samarth portal i.e. Employee Profile, Payroll Management System, Leave Management System, Estate & Buildings, Inventory Management System, Vendor Management System, File Tracking System, IT Support/Helpdesk	44
General training	Government e-Marketplace/Central Public Procurement Portal Training for Administrative staff/Faculty of the University and its colleges	24
Others	Internet Technologies and Email, Virtual Private Network training	19

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 University's core IT infrastructure comprising of:

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

Wired equipment comprising of more than 400 network switches (and increasing) Wi-Fi equipment comprising of 100+ switches and 500 wireless access points Fibre optic cable network of 43 kilometres laid across both campuses

Servers hosting different applications like College and Department website along with the University's 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 the University's website, Technical

Support & Regular updates on the University's 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 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 remain connected to the 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 the University community.



Following key supports are provided to administrative units and departments: - Provisioning and facilitating of GeM accounts

Provisioning and facilitating of e-Procurement accounts.

Training program for DU officials/faculty from various Administrative Offices, Departments, Colleges.

GeM -

594 704 Users of 121 129 Departments

e-Procurement -

DU e-Procurement Users: appx 550 Users of 58 Departments and 37 Colleges

Delhi School for Skill Enhancement & Entrepreneurship Development (DSSEED)

Major Activities and Achievements

Delhi School for Skill Enhancement & Entrepreneurship Development (DSSEED) was established under the ordinance XX-U of the University of Delhi 2021 as a part of Institution of Eminence (IoE) scheme. DSSEED aims to fill the gap in the current knowledge delivery at DU for meeting the immediate and future challenges with ever-evolving programs involving all streams of education with training across faculties including Sciences (Biological Chemical and Physical, Mathematical and Informatics), Humanities, Social sciences, Commerce and Economics, Finance and Management. Some of the stated objectives of DSSEED are:

To initiate and develop research/teaching programmes related to the skill enhancement and entrepreneurship development in terms of science, technology and policy.

To provide a platform for state-of-the-art research, teaching and outreach programmes.

To promote research/hands-on training on skill enhancement and entrepreneurship development

To set up incubators for students, college teachers and start-ups.

To provide research infrastructure and mentorship to students, teachers, researchers, start-ups.

To provide consultancy and high-end infrastructure support to industry.

To establish networks and cooperation among scholars, policymakers, professionals, regulators.

To evolve and mobilize new, online technologies for training scholars in various themes/sub-themes.

To create an environment that promotes and facilitates innovation, IPR, patent filing and tech-transfer.

To introduce and run academic programmes for skill enhancement and entrepreneurship development.

To nurture start-ups and small/medium enterprises through incubators;

To provide a globally competitive environment for innovation.

The DSSEED Governing Body comprises renowned personalities and held its first meeting on 6th December, 2021 under the Chairmanship of Prof. N. K. Ganguly (Former Director General, ICMR) and approved many proposals to initiate activities to meet the objectives. The GB approved collaborations with other centers of the University, including Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET), a University center established under Ordinance XV-A.

Honors/Distinctions

Dr. Vijay Chaudhary (Director-DSSEED) is NASI Platinum Jubilee Senior Scientist at CIIDRET. Member of Governing Council for Institution of Eminence of DU (DU-IoE), University of Delhi Adjunct Prof. at Regional Centre for Biotechnology (RCB), Faridabad. Member of IP & Tech. Management Advisory Committee-BIRAC. Mentor, Nexus @ American Center, New Delhi. (<https://startupnexus.net/mentors>).

During 2021-22, Dr. Vijay Chaudhary has been Co-Chairman of the DBT Task Force on "Infectious Disease Biology."

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

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

Member of Scientific & Technical Appraisal & Advisory Group Medical Biotechnology, DBT NER.

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



Presentation in Conferences by Director (Hon.) DSSEED

Chaudhary, V.K., (2022, 24-25 March). Phage-Displayed Recombinant Antibodies- A Disruptive Technologies for Novel Therapeutic Molecules. International Conference “Biotechnological Interventions to Overcome the Challenges of Covid/Post-Covid Era “BIOCoPE-2022”, Amity Institute of Biotechnology, Amity University, Rajasthan.

Chaudhary, V.K., (2022, 25 February). “Antibodies”- Ek Naam, Anek Kaam (Antibodies- एक नाम, अनेक काम)”, Mikrovitae 2022, the Annual Festival of the Department of Microbiology, Ram Lal Anand College, University of Delhi.

Chaudhary, V.K., (2021, 18 December). “Phage-Displayed Human Antibody Library – A resource for discovery of next-generation antibody therapeutics”, Society of Biological Chemists, India, Amity University Gurugram.

Extension and Outreach Activities

DSSEED, in collaboration with CIIDRET, organized a Student Skill Enhancement Workshop on “Techniques for manipulation of nucleic acids for applications in Genomics”, from March 11-21, 2022 at University of Delhi South Campus, New Delhi. In this, Hands-on training was provided to 20 students for isolation and purification of chromosomal and plasmid DNA, and Automated Capillary-based Sanger DNA Sequencing.

DR. B.R. AMBEDKAR CENTER FOR BIOMEDICAL RESEARCH

Brief History

Dr. B.R. Ambedkar Center for Biomedical Research (ACBR), University of Delhi was established in 1991 and became operational in 1997 at north campus Delhi University. The center offers M. Sc and Ph.D. in Biomedical Sciences through a highly competitive all-India entrance exam. The Center strives to impart education and research skills at the interface of basic life sciences and para-medical sciences. The students are given a rich academic environment where theoretical knowledge is well amalgamated with practical/project based learning. They are encouraged to implement innovative research in an interactive multidisciplinary environment. The program expedites them to commence their journey as future academicians in Biomedical Research and allied disciplines. The Center has a number of active national, International and industrial collaborations to its credit. The curricula as well as research objectives and technical protocols well match with the global objectives set in the field with a scope of innovation.

Major Activities and Achievements

Dr. B.R. Ambedkar Center for Biomedical Research (ACBR) is a distinctive Institute at University of Delhi known for its role in imparting education in

biomedical sciences. M.Sc. course offered by ACBR not only prepares the postgraduate students to know the structural/biochemical, genetic and physiological nuances of eukaryotic /prokaryotic cell but also amalgamate these learning with, key areas of Biomedical Sciences. The teaching and practical learning is well integrated with project based learning's during semester breaks and the final semester research projects. “The Luncheon with scientists” for informal talks and collaborative teaching with the Institutes in the neighborhood always captured the students in “learning without boundaries”. ACBR continues to keep its tempo in running stalwart projects in public health as well as basic sciences and have 39 published papers/book chapters with high citation, 02 academic award 08 patents. Online workshops and interactive webinars were also conducted in collaboration with DU Colleges and DSPH.

Honours/Distinctions

Young Investigator Scholarship by IUSTI & ISSTD. to attend STI & HIV World Congress 2021 held in Amsterdam, Netherlands by Ravi Kant
Best Platform presentation in 21st Joint Annual Conference of Indian Epilepsy Association and Indian Epilepsy Society, ECON2020 at Ahmedabad (17-19 Jan., 2020) by Dr. Aparna Dixit

Publications

- Sonkar, S. C., Arora, G., Wasnik, K., Ali, M., Mittal, P. & Saluja, D., (2022). Improved management can be achieved by introducing additional parameters in the syndromic diagnosis of nonviral sexually transmitted infections at low-resource settings. *AJOG Global Reports*, 1, 2, 100037.
- Jetly, J., Bhardwaj, P., [...], Arora, G., Saluja, D., Yadav, S. K., Naidu, K. P. & Taneja, J., (2022). Hesitancy and Acceptance of COVID-19 Vaccination Amidst the Second Wave of Pandemic in India: A General Population Study. *Asian Pacific Journal of Public Health*, 4, 34, 446-449.
- Satija, U. A., YK, Siraj F., Sharma I., Saluja D., (2022). p73-regulated FER1L4 lncRNA sponges the oncogenic potential of miR-1273g-3p and aids in the suppression of colorectal cancer metastasis. *iScience*, 2, 25, 103811, 2.
- Arora, G., Taneja, J., Bhardwaj, P., Goyal, S., Naidu, K., Yadav, S. K., Saluja, D. & Jetly, S., (2022). Adverse events and breakthrough infections associated with COVID-19 vaccination in the Indian population. *J Medical Virology*, 7, 94, 3147-3154., 2.
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- Luthra, P. M.; Kumar Nitin, (2021). Progress and Development of C-3, C-6, and N-9 Positions Substituted Carbazole Integrated Molecular Hybrid Molecules as Potential Anticancer Agents. *Mini Reviews in Medicinal Chemistry*, 21, 2929-2956, 5.
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- Choudhary, R., Kumar M. & Katyal, A. (2022). 12/15-Lipoxygenase debilitates mitochondrial health in intermittent hypobaric hypoxia induced neuronal damage: An in vivo study. *Redox Biology*, 49, 102228, 5.
- Pasrija, P., Girdhar, M., Kumara, M., Arora, S. & Katyal, A., (2022). Endophytes: an unexplored treasure to combat Multidrug resistance. *Phytomedicine Plus*, 2, 2, 100249, 2.
- Kumara, M., Madan, J., Kaur, R., Shashi, S., Singh B. & Katyal, A., (2021). Decoding the silent walk of COVID-19: Halting its spread using old bullets. *Biomedicine & Pharmacotherapy*, 133, 110891, 1.
- Varma, D. A., Singh M., Wakode, S., Dinesh, N. E., Vinaik, S., Asthana, S. and Tiwari, M., (2022). Structure-based pharmacophore mapping and virtual screening of natural products to identify polypharmacological inhibitor against c-MET/EGFR/VEGFR-2. *Journal of Biomolecular Structure and Dynamics*, 2.
- Diksha A. Varma, Tiwari, M., (2021). Crizotinib-induced anti-cancer activity in human cervical carcinoma cells via ROS-dependent mitochondrial depolarization and induction of apoptotic pathway. *Journal of Obstetrics and Gynaecology Research*, 11, 47, 3923-3930.
- Mishra, C. B., Kumari, S., Angeli, A., Bua, S., Mongre, R. K., Tiwari, M. and Supuran, C. T., (2021). Discovery of Potent Carbonic Anhydrase Inhibitors as Effective Anticonvulsant Agents: Drug Design, Synthesis, and In Vitro and In Vivo Investigations. *ACS Publications*, 6, 64, 3100-3114, 9.
- D'Ambrosio, K., Di Fiore, A., Buonanno, A., Kumar S., Tiwari, M., Supuran, C. T., Mishra, B. C., Monti, S. M. & De Simone, G., (2021). The crystal structures of 2-(4-benzhydrylpiperazin-1-yl)-N-(4-sulfamoylphenyl)acetamide in complex with human carbonic anhydrase II and VII provide insights into selective CA inhibitor development. *The Royal Society of Chemistry*, 45, 147-152, 1.
- Jha, P., Saluja, D., Chopra, M., (2022). Structure-guided pharmacophore based virtual screening, docking, and molecular dynamics to discover repurposed drugs as novel inhibitors against endoribonuclease Nsp15 of SARS-CoV-2. *Journal of Biomolecular Structure and Dynamics*.
- Jha, P., Singh P., Arora, S., Sultan, S., Nayek, A. Ponnusamy, K., Syed, M. A., Dohare, R. & Chopra, M. (2022). Integrative multiomics and in silico analysis revealed the role of ARHGEF1 and its screened antagonist in mild and severe COVID-19 patients. *J Cell Biochem*, 3, 123, 673-690, 1.



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- Banerjee, J., Srivastava, A., Sharma D, Dey, S., Tripathi, M., Sharma M.C., ChanDr. S.& Dixit, A.B., (2021). Differential regulation of excitatory synaptic transmission in the hippocampus and anterior temporal lobe by cyclin dependent kinase 5 (Cdk5) in mesial temporal lobe epilepsy with hippocampal sclerosis (MTLE-HS). *Neuroscience Letters*, 761, 136096, 2.
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- Dey, S., Dixit, A.B., Tripathi, M., Doddamani, R.S., Sharma M.C., Lalwani, S., Poodipedi, S.C., & Banerjee, J., (2021). Altered hippocampal kynurenine pathway metabolism contributes to hyperexcitability in human mesial temporal lobe epilepsy–hippocampal sclerosis. *British Journal of Pharmacology*, 19, 178, 3959-39-76, 2.
- Dheer, A., Dixit, A.B., Tripathi, M., Chandra, P.S. & Banerjee, J., (2022). Glia in Epilepsy: An Overview. *Recent Advances*, 418, 321-351.
- Dubey, V., Dey, S., Dixit, A.B., Tripathi, M., Chandra, P.S. & Banerjee, J., (2022). Differential glutamate receptor expression and function in the hippocampus, anterior temporal lobe and neocortex in a pilocarpine model of temporal lobe epilepsy. *Experimental Neurology*, 347, 113916, 1.
- Kumar K., Yadav, N., Banerjee, J., Tripathi, M., Sharma M.C., Lalwani, S., Siraj, F., Chandra, P.C., SenGupta, S.& Dixit, A.B., (2021). Mass spectrometry-based lipidomic analysis reveals altered lipid profile in brain tissues resected from patients with focal cortical dysplasia (FCD). *Epilepsy Research*, 177, 106773.
- Kumar S., Attrish, D., Srivastava A., Banerjee, J., Tripathi, M., Chandra, P. S., & Dixit, A. B., (2020). Non-histone substrates of histone deacetylases as potential therapeutic targets in epilepsy. *Expert Opinion on Therapeutic Targets*, 1, 25, 75-85, 6.
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Books/Chapter in Books

Dey, J.K., Ahmedi, S., Jain, N. Bano, S., Manzoor, N. & Dey, (2022). Effect of the changing climate and urban ecology on spreading of infectious diseases including sars-cov-2. In the Atrium, (Chapter 12). Southern

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gate, West Sussex po19 8sq, United Kingdom: John Wiley & Sons, Incl?

Choudhury, S.P., Arora, A., Jain, J. & Dey SK., (2022). Climate Change, Urbanisation, and Their Impact on Increased Occurrence of Cardiometabolic Syndrome. In the Atrium (Chapter 2), Southern Gate. West Sussex PO19 8SQ, United Kingdom: John Wiley & Sons, Inc.

Dey, S.K., Senapati, S., (2021). Insulin and Insulin-Like Growth Factor-1 Associated Cancers. In *Obesity and Cancer*, (25-48). Singapore: Springer

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Arora, S., Saini G., Katyala, A. (2021). Introduction to cell biology: Zooming in on apoptosis in prokaryotes and eukaryotes. In *Drug Discovery, Drug Delivery, and Disease Prevention*, (1-22). Amsterdam, Netherlands: Elsevier.

Research Projects

Innovative Young Biotechnologist Grant (IYBA) from Department of Biotechnology, Ministry of Science and Technology, Govt. of India, 2019-2022, Comparative analysis of src kinase mediated high glutamatergic activity in the anterior temporal lobe (ATL) and Hippocampus of the Hippocampal sclerosis patients, 58.168

Principal Scientific Advisor, Govt. of India, 2018-2022, 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), 66.0513

Department of Biotechnology, 2018-2023, MEG resource facility, collaborative project with AIIMS, 134.674

Department of Biotechnology, 2021-2024, Deciphering the cross-talk between Toll Like Receptors and C-type Lectin receptors in mediating immune responses upon mycobacterial infection, 38.40

ICMR, 2019-2022, 'Investigating the modulatory role of PPAR beta/delta in pathogenesis of Experimental



Cerebral Malaria, to establish it as a potential therapeutic target, 48.48

Patents Filed

20211103666 and A Sensitive, Cost-Effective and Non-Hazardous Method of Chromosome Staining.

202111026777 and Quinolone-Based Anti-Hypertensive Cardio-Protective Composition

202111026998 and Novel Anti-Hypertensive Cardioprotective Composition Comprising of Dispiro[1H-Perimidine-2(3H),2''(3''H)-[1H] Perimidine

202121026835 and A Furan-Based Anti-Rheumatoid Arthritis Composition

Application number IN 3712/DEL/2013 and an improved PCR-based process for detecting Chlamydia trachomatis and Neisseria gonorrhoeae Patents Granted

Seminars Organized

Dixit, A.B. & Sharma M., (2021, 2 April; 25 June). Frontier in biomedical research. ACBR, University of Delhi.

Dey, S.K., (2021, 20 December) (2022, 12 February). ACBR alumni lecture series: Centenary year of the University of Delhi. ACBR, University of Delhi.

Seminar/Conference

(National/International)

Dey, S.K., (2022, April 16). Multidimensional implications of sars-cov-2 proteins and polyproteins. Presented in the biotikos-2022, Teri School of Advanced Studies (Deemed to be University), Vasant Kunj, New Delhi, India (2022, April 16).

Dixit, A., (2021, December 29). Basic Cell Culture Technology & quot; organized by MHRD- RUSA 2.0 programme, University of Madras, Chennai.

Dixit, A., (2021, December 9). Potential role of deregulated Cdk5 in the altered synaptic transmission associated with Mesial temporal lobe epilepsy with hippocampal sclerosis (MTLE-HS) and Focal cortical dysplasia (FCD), International conference conducted by Society of Neuroscience.

Saluja, D., (2022, January4) Development of novel therapeutic strategy against Cancer: Targeting stem cell differentiation by natural compound. Hindu College, University of Delhi.

Saluja, D., (2022, # February) Nucleic acid-based diagnostic assays and their application in health sciences, SRCASW, University of Delhi.

Saluja, D., (2022, March 2-5). Development of novel therapeutic strategies against Cancer: Targeting stem cell differentiation by natural compound, Esculetin. 41st Annual Conference of the Indian Association for Cancer Research (IACR-2022) on "Combating Cancer: Biology to Therapy to Drug Resistance" along with an International Symposium on "Stem Cell and Cancer", Amity Institute of Molecular Medicine & Stem Cell Research (AIMMSCR), Amity University, Uttar Pradesh, Noida.

Luthra, P.M., (2021, April 16). Health and Safety in the Laboratory" on Lab Safety Measures and Chemical Waste Management for Ecological and Environmental Shield, National workshop on laboratory safety measures and chemical waste management for ecological and environmental shield. Department of Chemistry, Rajdhani College, University of Delhi.

Luthra, P.M., (2021, December 4-5). Rational approach to the design and synthesis of A2A receptor antagonists in the therapy of Parkinson's Disease, 3rd International Conference on Virtual Pharma 2021, Impact Conferences, Delhi.

National/International MoUs Signed

a. MoU signed between ACBR and the THSTI-Faridabad where Dr. Sanjay Kumar Dey from ACBR is the project coordinator.

Other Inter-Institutional Collaborations

Dr. Sanjay K. Dey
I. Prof. Eddy Arnold, Center for Advanced Biotechnology and Medicine (CABM), Rutgers University, USA
II. Prof. Christian Betzel, Institute of Biochemistry and Molecular Biology, Hamburg University, and DESY, Hamburg, Germany
III. Dr. Ujjwal Neogi, Systems Virology Lab, Associate Prof. of Virology, Karolinska Institute, Stockholm, Sweden; Adjunct Associate Prof., University of



Missouri, Columbia, USA
I. Dr. Shailendra Mani, Translational Health Science and Technology Institute (THSTI), India
II. Dr. Shubbir Ahmed, Translational Health Science and Technology Institute (THSTI), India
III. Prof. Subhendu Ghosh, Biophysics, University of Delhi
IV. Dr. Pragya Jain, UCMS, University of Delhi
V. Prof. Suman Kundu, Biochemistry, University of Delhi
VI. Prof. Chandi C Mandal, Central University of Rajasthan, Rajasthan
VII. Dr. Sabyasachi Senapati, Central University of Punjab, Punjab
VIII. Dr. Santosh K Verma, Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPI), Lucknow, Uttar Pradesh
IX. Dr. Pankaj Prabhakar, Indira Gandhi Institute of Medical Sciences (IGIMS), Patna, Bihar
Prof. Madhu Chopra
Dr. Tavpritesh Sethi, IIIT Delhi, Co-PI for DBT project
Dr. Anil K. Mishra, and Dr. Puja Panwar, INMAS, Co-PI for COVID project

Faculty Strength

12-Permanent Faculty
02-Temporary status against vacant post

Number of Ph.D. Degrees Awarded

08

Other Significant Information

Drug Discovery Hackathon Phase I- Award (DDH-2020), open - source drug discovery Hackathon against Covid-19, Organised by Innovation Cell, Ministry of Education and also selected for Phase II project by Prakash Jha.

Outstanding Poster Award by Asia Pacific Foundation for Infectious Disease to attend 13th International Symposium on Antimicrobial Agents and Resistance by Ravi Kant.
3. Best Oral Presentation Award for the 3 Minute Thesis Competition at NAMRIP International Conference on Anti Microbial Resistance at University of Southampton, UK, by Ravi Kant

INSTITUTE OF CYBER SECURITY AND LAW

Brief History

The Institute of Cyber Security and Law was established under the aegis of University of Delhi in 2017 by Prof. Yogesh K Tyagi, the then Vice Chancellor, Dr. Gulshan Rai National Cyber Security Coordinator at the Prime Ministers Office, Government of India, Shri N R Wassan, Former Director general of Police, Dr. Madan Oberoi, Special Commissioner Cyber Crimes, Delhi Police and Prof. Sunaina Kanojia, Department of Commerce, University of Delhi as co founders. ICSL was launched with a unique course of Post Graduate Diploma in Cyber Security and Law to cater demand in the domain of Cyber-security as one of the niche subjects of modern studies.

Major Activities and Achievements

Institute of Cyber security and law offer Post Graduate Diploma in Cyber Security and Law as its flagship program. This is an advanced Penetration Testing & Information Security Training Engineering Program. In the course, students will learn how hackers break into the system's, network, mobiles

and website so as to make them aware of the possible loopholes and therefore, making them proficient in reverse-penetration. This course will enable students to carry out attacking as well as defensive methodologies which will help an individual or an organization to not only protect but also assess the safety and vulnerability ratio.

Honours/Distinctions

In a short span of five years, more than two dozen companies working in the domain of cyber security have connected with our students and hired them. The students are working to protect the Indian and international cyber space.

Placement Details (Placement Details)

Total No. of Students= 37 Placed Students=27
Percentage Placed= 72.97%

Extension and Outreach Activities

Extension and Outreach Activities Report



Title of event: Mobile Security
Date of Session: 04th June, 2022 Time: 1-3 PM
Speaker: Dr. Anup Girdhar (Sedulity Groups)

Objective: Intro to Mobile Security

Outcome: students got to learn how mobile architecture is and how to secure it

Summary: the seminar started with introduction of Dr. Anup Girdhar sir introduction and what his company do. Then he told students about mobile architecture and how it is similar to Linux OS architecture and how Mobile architecture works. Then he talked about how to secure mobile devices and how hash are used to secure passwords and data and what is hash and what is saltedhash and how they are used for integrity check and authentication he also why mobile security is imp. Aspect in upcoming future.

Title of event: latest cyber crime trends on mobile devices

Date of Session: 28th May, 2022 Time: 3:45-7 PM
Speaker: Mr. Jitender Singh ACP (MHA)

Objective: to introduce students to upcoming cybersecurity trends and challenges.

Outcome: Students got to know about upcoming challenges and trends in cybersecurity with reference to country security interests.

Summary: The seminar was about the upcoming challenges and scope in cybersecurity. The speaker told us about upcoming challenges in cyberwarfare with regards to nation's security interest and how we as a student in cybersecurity can help our nation to be secure from such attacks and what can be the scope in upcoming future with respect to cybersecurity and how we can prepare ourselves to face those challenges.

Title of event: Workshop on Cloud Security
Date of Session: 11TH MAY 2022
Time: 1 PM to 3 PM
Speaker: Mr. Prakhar Kaushik

Objective: To introduce participants to the field of

cloud security and risk management in cyber security.

Outcome: Participants got to learn various aspects of the subject in the workshop and the speaker led a healthy discussion in a QnA session after the presentation.

Poster:

Instagram:

<https://www.instagram.com/p/CdTchJLBJtr/>

Summary: The seminar was based on cloud fundamentals and cloud security. The speaker explained all the fundamentals and the building blocks of cloud security giving real life examples. The speaker made the seminar interactive by involving the attendees in active conversation. They also demonstrated various scenarios which gave deep insight of the industry functions. A case study was also undertaken towards the end, which really helped understand the concepts. Key words and jargons were explained when needed and all the queries of the attendees were addressed. Queries not only of the cloud domain were answered but also of other domains around cyber security.

Title of event: Mobile forensics
Date of Session: 28 th May, 2022
Time: 11-3 PM
Speaker: Mr. Depak Kumar (MHA)

Objective: introduction to mobile forensics

Outcome: students got to learn how forensics are done in mobile devices and what should be our approach as an investigating officer.

Summary: the seminar was about mobile forensics and speaker told us about what forensics is and how it is performed, what will be our role and responsibilities as an forensic investigation officer or if we have to perform forensic on a device. How we can traceback fingerprints of the attacker or hacker, what steps we will perform and also tools that will be used to perform various operations required.



INSTITUTE OF INFORMATICS & COMMUNICATION

Major Activities and Achievements

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

The Institute organized various activities such as, Industrial Lecture Series, in which eminent persons visit the institute to deliver specialized lectures on current trends in the IT industry sector. Further students and faculty organized time-to-time Industry-University interaction programme. The faculty actively presented their research work in various platforms like National / International conferences, workshops. Placements activity during this year is approximately 22 % due to COVID. Many top rated IT industries are coming for the campus placement. Industries visiting the Institute this year are, Hughes Systique, Truminds, Ceina, Altron Technologies,

Honours/Distinctions

Mr. Kunal Sharma & Mr. Rahul Chawla, M. Sc pass out student awarded Capt. Anuj Nayyar Memorial Gold Medal-2020, University of Delhi

Publications

Pundir, A., Singh S., Kumar M., Bafila, A., & Saxena, G. J. (2022). Cyber-Physical systems enabled transport networks in smart cities: Challenges and enabling technologies of the new mobility era. IEEE Access, 10, 16350-16364. doi: 10.1109/ACCESS.2022.3147323.

Shukla, U., Saxena, G. J., Kumar M., Bafila, A. S., Pundir, A. & Singh S. (2021). An Improved decision support system for identification of abnormal EEG signals using a 1d convolutional neural network and Savitzky-Golay Filtering. IEEE Access, 9, 163492-163503. doi: 10.1109/ACCESS.2021.3133326.

Seminars/Presentations

Aggarwal N., Shukla U., Saxena G. J., Kumar M., Bafila A. S., Singh S. & Pundir, A. (2022, March 3-4). An improved technique for risk prediction of Polycystic

University of Delhi: 99th Annual Report 2021-22

Ovary Syndrome (PCOS) using feature selection and machine learning. CITE- 2022, Noida, Uttar Pradesh, India.

Research Projects

Ministry of Education, Govt. of India sponsored project "SAMARTH" , 2019-2024, Evolutionary Process Automation Engine for Universities and Higher Education Institutions Rs. 66 Crores.

Placement Details (Placement Details)

On campus/Online mode			Off Campus
Number of Organizations Visited/online mode	Number of Students Participated	Number of Students Placed	Number of Students Placed
03	46	04	08

Placement Details: 09 & 17.39

Number of Companies online/visited for campus recruitment: 00 (online mode due to covid restrictions)

On Campus placement the average Annual Salary package: 11 Lakhs Truminds, 13 Lakhs Ceina and 7.2 Hughes Systique Corporation (HSC)

Off Campus: 11 Lakhs Truminds, 8 Lakhs UNICEF, 8.5 Kerol Systems, 8.4 Lakhs SAMARTH.

Extension and Outreach Activities

Collaborated with Connecting Dreams Foundation for Social entrepreneurship and empowerment

Faculty Strength: 03 (Positions) – 01 has retired, 01 is absent since 2016

Other Significant Information

IIC has been very instrumental in providing IT based solution and services to the University for various automation processes. The software developed at IIC called Samarth e-Gov has been implemented in all the Central Universities and other Higher Education Institutions. IIC has been organizing Hackathon, Idea championship events at national level.



INSTITUTE OF LIFELONG LEARNING

Major Activities and Achievements

Open House Discussion on National Education Policy 2020 organised by National Council for Teacher education (NCTE) in collaboration with University of Delhi (16-12-2021).

Two Weeks FDP on Pedagogy for Higher Education, organized by ILL, University of Delhi in collaboration with Hansraj College (21-02-2022 to 07-03-2022).

Books/Chapter in Books

Saxena, V., Kumar S., & Chander, S., (2022). Re-envisioning School Internship For Teacher Education, Delhi, ILL.

Prof. Pankaj Arora, Dr. Yukti Sharma Dr. Haneet Gandhi, Dr. Sunita Singh (2021), Re-envisioning

SCHOOL INTERNSHIP FOR TEACHER EDUCATION, Delhi, ILL, 978-93-90878-02-4, 61

Seminars Organized

Mittal R., Singh S., Kaur, H., Meena, J. P., Chawla, A., Aneja, A., Gupta, G., Bishnoi, N. & Koonan, S., (2021, 14-21 September). Legal Literacy. Campus Law Centre, Faculty of Law. and Institute of Lifelong Learning, University of Delhi.

Bhola, J., Sharma Y. & Yadav D., (2022, 27-29 January). Lecture Series on NEP 2020. Institute of Lifelong Learning, University of Delhi.

Faculty Strength

Director: 1

Joint Director: 1

Academic Secretary: 1

Academic Fellows: 17

Student-Interns: 8

Interdisciplinary Centre for Plant Genomics (ICPG)

Brief History

The ICPG was established in 2005 to seek and impart knowledge on Genomics, to carry out frontline research in the area of Plant Genomics, to generate new ideas for the acceleration of the pace of progress in Plant Genomics, to apply knowledge gained from basic concepts in Structural and Functional Genomics for crop improvement, to train and enrich human resources in the area of Genomics and to provide a platform for interaction at an institutional and inter-institutional level among scientists specializing in biology, chemistry, computer science, engineering, mathematics, physics and allied sciences, to bring together the policymakers, civil society and researchers for interaction and need-based development of enabling technologies/information in Genomics and their application. The Centre is currently located on the 3rd floor of the Biotech Centre in the South Campus of the University.

Major Activities and Achievements

The ICPG members are involved in the discovery and characterization of genetic and bioinformatic resources involved in plant reproductive development and response to environmental stress conditions. In plant reproduction, the group has identified and characterized a number of candidate genes that play key roles during panicle initiation, anther development and seed development. Prof. Tyagi's group has delineated the role OsCPK29 and MADS68 in regulating pollen development in rice. They also found that silencing of an ubiquitin ligase increases grain width and weight in indica rice. The work on a seed-specific MADS-box transcriptional regulator, OsMADS29, has revealed the interplay of regulatory mechanisms that play roles during developmental transitions. Grain chalkiness in rice is a negative agronomic trait associated with the rise in temperature during grain filling. The resultant grains are brittle and cause a significant loss of income for the farmers. Prof. Sanjay Kapoor's group has



developed a genetic technology that significantly reduces chalkiness in rice grains and has filed a patent. While working on the functional delineation of the MADS29 promoter, the group has reported the presence of a distal negative element besides two other positive elements that drive its expression in seeds in an auxin-responsive manner. Utilizing the leads from seed development and for the process of starch accumulation during grain filling in rice and other cereals, the group is involved in developing cell-line-based biofactories for starch production using cellular agriculture methodologies. Prof. Khurana's group has published the Draft genome sequence of the Indian mulberry (*Morus indica*) provides a resource for functional and translational genomics. Two new methodologies have been developed that relate to (a) the determination of tripartite protein Interactions by BiFC-FRET-FLIM and (b) a rapid and efficient protocol for genotype-independent, Agrobacterium-mediated transformation of indica and japonica rice using mature seed-derived embryogenic calli by Prof. Kapoor and Prof. Paramjit Khurana's groups.

Publications

Research Articles

Boora, N., Verma, V., Khurana, R., Gawande, G., Bhimrajka, S., Chaprana, K., ... Kapoor, S. (2021). Determination of Tripartite Interaction between Two Monomers of a MADS-box Transcription Factor and a Calcium Sensor Protein by BiFC-FRET-FLIM Assay. *Journal of Visualized Experiments*, (178), 1–18. <https://doi.org/10.3791/62791>.

Giri, J., Parida, S.K., Raghuvanshi, S. & Tyagi, A.K. (2021). Emerging molecular strategies for improving rice drought tolerance. *Current Genomics*, 1, 22, 16-25.

Khurana, R., Bhimrajka, S., Sivakrishna Rao, G., Verma, V., Boora, N., Gawande, G., ... Kapoor, S. (2022). Characterization of Transcription Regulatory Domains of OsMADS29: Identification of Proximal Auxin-Responsive Domains and a Strong Distal Negative Element. *Frontiers in Plant Science*, 13(April), 1–17. <https://doi.org/10.3389/fpls.2022.850956>.

Pandey, B. K., Verma, L., Prusty, A., Singh, A. P., Bennett, M. J., Tyagi, A. K., Giri, J., & Mehra, P. (2021). OsJAZ11 regulates phosphate starvation responses in

rice. *Planta*, 254(1).

<https://doi.org/10.1007/s00425-021-03657-6>

Verma, A., Prakash, G., Ranjan, R., Tyagi, A.K. & Agarwal, P. (2021). Silencing of an ubiquitin ligase increases grain width and weight in indica rice. *Frontiers in Genetics (Plant Genomics)*. NA, 11, 600378.

Chanderkant, C., Sharma, N. & Khurana, P. (2022). Genome-wide identification of Aux/IAA and ARF gene families in bread wheat (*Triticum aestivum* L.). *Protoplasma*, (doi : 10.1007/s00709-022-01773-y). 0

Chanderkant, C., Sharma, N. & Khurana, P. (2022). Transcriptome profiling of somatic embryogenesis in wheat (*Triticum aestivum* L.) influenced by auxin, calcium and brassinosteroid. *Plant Growth Regulation*, (doi: 10.1007/s10725-022-00883-0). 0

Jain, M., Bansal, J., Mohan Singh Rajkumar, M.S., Sharma, N., Khurana, J.P., Khurana, P. (2022). Draft genome sequence of Indian mulberry (*Morus indica*) provides a resource for functional and translational genomics. *Genomics*, 3, 114, 110346. (doi: 10.1016/j.ygeno.2022.110346).

Jain, P., Khurana, P. & Khurana, J.P. (2022). A rapid and efficient protocol for genotype-independent, Agrobacterium-mediated transformation of indica and japonica rice using mature seed-derived embryogenic calli. *Plant Cell Tissue and organ culture*, (doi:10.1007/s11240-022-02331-3).

Meena, S., Deb, S., Samtani, H., & Khurana, P. (2022). Elucidating the functional role of heat stress transcription factor A6b (TaHsfA6b) in linking heat stress response and the unfolded protein response in wheat. *Plant Molecular Biology*, 6, 108, 621-634 (doi: 10.1007/s11103-022-01252-1).

Ranjan, R., Malik, N., Sharma, S., Agarwal, P., Kapoor, S., & Tyagi, A. K. (2022). OsCPK29 interacts with MADS68 to regulate pollen development in rice. *Plant Science*, 321. <https://doi.org/10.1016/j.plantsci.2022.111297>.

Samtani, H., Unni, G. & Khurana P. (2022). Heat sensing mechanisms in lower organisms. *Indian Journal of Microbiology*, 62, 175–186.



Samtani, H., Sharma A. & Khurana P. (2022). Overexpression of HVA1 enhances drought and heat stress tolerance in *Triticum aestivum* doubled haploid plants. *Cells*, 5, 11, 912. (doi: 10.3390/cells11050912).

Sharma, P., Mishra, S., Burman N., Chatterjee M., Singh S., Pradhan AK., Khurana P. & Khurana, J.P. (2022). Characterization of Cry2 genes (CRY2a and CRY2b) of *B. napus* and comparative analysis of BnCRY1 and BnCRY2a in regulating seedling photomorphogenesis. *Plant Molecular Biology*, 190, (doi.org/10.1007/s11103-022-01293-6).

Sharma, E., Borah, P., Kaur, A., Bhatnagar, A., Mohapatra, T., Kapoor, S., & Khurana, J. P. (2021). A comprehensive transcriptome analysis of contrasting rice cultivars highlights the role of auxin and ABA responsive genes in heat stress response. *Genomics*, 113(3), 1247–1261. <https://doi.org/10.1016/j.ygeno.2021.03.007>.

Sharma, N. & Khurana, P. (2022). Genome-wide identification, characterisation and expression analysis of the BRI1 gene family in *Triticum aestivum*. *Plant Biotechnology Reports*, 190, (doi.org/10.1007/s11816-022-00762-0).

Tyagi, V., Parihar, V., Singh, D., Kapoor, S., & Kapoor, M. (2021). The DEAD-box RNA helicase eIF4A1 interacts with the SWI2/SNF2-related chromatin remodelling ATPase DDM1 in the moss *Physcomitrella*. *Biochimica et Biophysica Acta (BBA) - Proteins and Proteomics*, 1869(3), 140592. <https://doi.org/10.1016/j.bbapap.2020.140592>

Tyagi, A.K. & Sopory, S.K, (2021). Jitendra Paul Khurana (1954-2021). *Curr. Sci.* 11, 121, 1501-1502.

Journal(s) Published by the Department

A few of the Centre's teachers are serving as Editor(s)/Members(s) of Editorial Boards of various Scientific Journals:

Professor A. K. Tyagi

Molecular and General Genomics, Transgenic Research, and Rice

Prof. Sanjay Kapoor

Associate Editor, Rice

Patents Filed/Granted

Sanjay Kapoor and Vibha Verma (2021) PCT/IN2022/050848: Recombinant Constructs, Method for Improving Grain Quality, And Implementations Thereof. (*This patent is about a genetic technique that reduces chalkiness in rice*).

Seminar/Conference Presentations (National/International)

Prof. A.K. Tyagi

Webinar, 35 years of Biotechnology Growth in India - An exciting journey, DBT, New Delhi, 2021.

Virtual Refresher Course in Botany (Sponsored by science academies), Telangana Univ., Nizamabad, 2021.

Virtual 42nd Annual Meeting of PTCA (India) and International Symposium on Advances in Plant Biotechnology and Genome Editing, ICAR-IIAB, Ranchi, 2021 (chaired a session).

Platinum Jubilee National Seminar, ICAR-NRRI, Cuttack, 2021 (key-note speech).

USBT Distinguished Lecture Series, IP University, New Delhi, 2021.

XV Agricultural Science Congress AS and BHU, Varanasi, 2021 (session chair).

91st Annual Session and Symposium SI, Prayagraj, 2021.

National Conference of Plant Physiology 2021, ISPP and ICAR-NIASM, Baramati, 2021 (session chair).

Prof. Sanjay Kapoor

Sanjay Kapoor*, Vibha Verma, Sanchi Bhimrajka, Gautam Gawande and Meenu Kapoor (2022) Deciphering of the Role of OsMADS29 in Early Seed Development and Its Implications an Improving Grain Quality in Rice. **Invited Lecture** at (Online) PAG Asia Meet at Shanghai.

Students under Exchange Programme

The ICPG members have collaborative projects with several institutions across India and abroad. A number of students from universities/institutions across India visit ICPG for short duration for specialized experiments.

Extension and Outreach Activities

The faculty has been involved in delivering lectures related to our research achievements, general scientific awareness and opinions on current topics related to plant research at several institutes, universities and undergraduate colleges.



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

Not Applicable (as all participating members are part of the Department of Plant Molecular Biology and Ph.D. students are enrolled in the department)

Faculty Strength

1 Director (Permanent Faculty), 4 Associated Faculty (Permanent as well as recently superannuated, but continuing)

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

Major Activities and Achievements

The USIC is in-campus research facility centre established by University of Delhi to impart state of the art sophisticated scientific instruments to facilitate high quality research work in the emerging areas of physical and life sciences. The University departments under Faculty of Science actively involved in conducting research in various disciplines, in addition to teaching. In order to carry out the experimental research work, the researchers need various scientific sophisticated analytical instrument facilities. These facilities are mainly supported by the USIC to various departments, centers and colleges. This is reflected by the huge number of publications appearing consistently in journals of international repute over the years. In addition to internal users, the facility is extended to outside users (academic and industry) on payment basis. In addition to providing access to modern research facilities, the

centre also extends the mentorship through training and workshops for researchers.

USER INFORMATION

S. No. Instrument Name Number of Users
01.04.21 to 31.03.2022

Scanning Electron Microscope (SEM) 166

Up-Down Conversion 83

Vibrating Sample magnetometer (VSM) 70

FESEM 83

Laser Raman 208

HR Mass Spectrometer 53

CHNS Analyzer 116

X-Ray Diffractometer 104

CDS 84

FTIR 374

Jeol NMR 2149

Bruker NMR 1046

DSC 2

TGA 1

Liquid nitrogen supply 54

WOMEN'S STUDIES AND DEVELOPMENT CENTRE FOR ADVANCED STUDIES (WSDC)

Major Activities and Achievements

The Centre is amongst the earliest of Women's Studies Centres established in the country and as such has the distinction of being one of the longest running Centres dedicated to Women's studies and Gender Issues in any Central University.

The Centre founded the WSDC FORUM – a platform for colleges enlisted under the University of Delhi, along with faculty members, college principals, and convenors of Women's Development Cells (WDC) and Gender Sensitization Units (GSU) of individual colleges. The Forum is an attempt to create

awareness and act upon gender related issues wherein we support and motivate each other as well as share our collective experiences. As part of the Forum, the Centre invites academics, researchers and activists from the fields of gender studies and allied disciplines to initiate conversations around gender.

On 15-09-2021, as part of the WSDC Forum, Prof.

Charu Gupta, Prof. of History, University of Delhi, delivered a talk on "Deconstructing Masculinities in Modern India". University Colleges, WDCs and GSUs,



students, teachers, researchers and scholars from other universities were in attendance. Owing to the pandemic, the seminar was held online.

On 29-10-2021, as part of the WSDC Forum, the Centre organised an online Lecture on “Witch-Hunting: An Instance of Violence Against Women” by Dr. Jitender Gill, and Dr. Rajyalakshmi, Janakidevi Mahila College, University of Delhi, at the WSDC, DU between 12.00am - 2.00pm. Total 45 participants attended the lecture. The lecture discussed the practice of witch hunting in modern India and how ideas of gender justice must combat superstitious practices.

On 01-02-2022 Dr. Sreejata Paul delivered a lecture in the WSDC Forum on the subject ‘An Intivitation

into the Mehfil: A study of Muslim Women’s Interregional Intellectual networks’ from 2:30 to 05:00pm. Students of the Certificate Course in Gender and Society along with participants of WDC/GSU of DU colleges. 35 students attended the lecture. The lecture drew from archival and literary research to look at the ways in which Muslim women in colonial India formed reading groups and other intellectual networks to share their writing and art.

On 28-01-2022, the Gender and Society Certificate course began in the online mode. Total 44 male and female students enrolled from different colleges and universities across the country.

Honours/Distinctions

The Centre’s Advanced Course is popular with cross section of students belonging to different departments. This Centre provides the unique interdisciplinary space and interaction to the students.

Research Projects

2022, 1. The Social impact of the Work of Anganwadi Workers and their Working Conditions’ in Haryana and Delhi NCR regions.

Seminars Organized organized by the Centre

Kanagasabai, N., (2022, February 1). Women’s Studies Pedagogies in a tier II city in India. TISS, Mumbai & WSDC, University of Delhi.

Mehta, R., (2022, March 11). A southern feminist takes on border criminologies, Western Sydney University & WSDC, University of Delhi.

Mukherjee, A., (2022, March 14). Space, Mobility, and Gender, St. Xavier’s College, Kolkata & WSDC, University of Delhi.

Majumdar, A., (2022, March 18). Whose biological clock? Changing perceptions of assisted reproduction in India, IIT, Hyderabad & WSDC, University of Delhi.

Tewari, R., (2022, April 11). Masculinities, IIT, Dharwad & WSDC, University of Delhi.

Tyagi, J., (2022, March 25). Status of women in ancient India, WSDC, University of Delhi.

Seminar/Conference

(National/International)

WSDC made presentations through online Advance Course and lecture series.

Tyagi, J.S., (2022. January 7-8). Knowledge traditions and informal systems of Learning in Ancient India: Representations of women in Early Texts, Two-day online National Symposium on ‘Women education in India: A situational analysis’, Maulana Azad National Institute of Technology, Bhopal.

Tyagi, J.S., (2022, January 27). Role of Women Development Cells in HEI in generating action towards gender equality’ and ‘Views on The Prohibition of Child Marriage (Amendment) Bill, 2021, Round table conference, Women Development Cell, University of Delhi & Cerebrum, Student Literary Club, Bennett University.

Other Inter-Institutional Collaborations

The Centre has collaborated with the Women’s Development Cells and Gender Sensitisation Units of various colleges in the University of Delhi in order to institute the WSDC Forum.

The Centre is in collaboration with several colleges under the University of Delhi for undertaking the proposed research projects.

Extension and Outreach Activities

WSDC draws students from various constituent colleges, departments and Faculties of University of Delhi and other State and Central Universities across



India.

Students drawn from University of Delhi offer the centre with a cross-section of participants across different regions, nationality, ethnicity, promoting inclusive and holistic learning irrespective of gender, caste and identity. Post graduate and Research Students across diverse disciplines in Natural Science, Mathematics, Commerce, Humanities and Social Science Management participate in the courses offered by WSDC. They bring with them learning and perspectives from their fields that blends with the interdisciplinary approach offered by the centre and women's studies as a field. International Students of DU and other institutions have also participated in the courses offered at the centre.

The staff and faculty at WSDC have a harmonious blend of cultural and regional variation. Bilingualism (Both English and Hindi) as a mode of communication and discourse for teaching and research is promoted and followed.

Faculty Strength

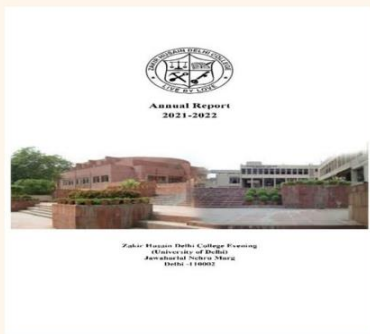
Prof. Jaya S. Tyagi, Director
Dr. Manjeet Bhatia, Associate Prof. (superannuated on 31-03-2021)

Ms. Aishwarya Chandran, Guest Faculty (Joined in January, 2022)

Other Significant Information

As the Women's Studies and Development Centre, University of Delhi observed its 35th year this year, the Centre decided to celebrate its legacy of advocacy, activism, and research. An event was organized at the Centre, the first department event to be organized in person after the pandemic. The founding director of the Centre, Prof. Susheela Kaushik and Former Director Prof. Vibha Chaturvedi were invited to the event. Prof. Malashri Lal joined us through video conferencing. Prof. Shyama Rath, Head of Department of Physics and Astrophysics, University of Delhi was also invited to the event. A call for submissions was circulated on the theme 'Negotiations, Struggles and Rights', inviting students and scholars to submit poems, posters, and photographs to be showcased at the event. Economist and author of bestselling book 'Desperately Seeking Shah Rukh' Ms. Shrayana Bhattacharya was invited to speak to the students about her research and her book.

COLLEGES







ACHARYA NARENDRA DEV COLLEGE



Brief History

Acharya Narendra Dev college was founded in 1991 and was named after great educationist and social reformer Shri Acharya Narendra Dev. Starting from four rooms in SPS structure in the year 1991, college moved into its current premises in 1992. In a short span of 31 years the college has made substantial progress. Starting with two undergraduate courses, the college currently offers nine undergraduate honours courses and two post-graduate courses. The foreign language center of the college offers part time certificate, diploma and advanced diploma courses in French, German, Spanish and Russian. The total intake of students in the first year in 13 UG courses is 863. Currently, the college has 128 teaching faculty and 117 non-teaching staff. In building this institution, founder Principal, Late Dr. A. S. Kukla, OSDs/Officiating Principal, Dr. Najma Siddiqui, Dr. Bharati Sarkar, Dr. Mamta Bhatia, Dr. Pratibha Jolly and Dr. Savithri Singh has played a key role and the College is reaping the benefits of the strong foundation established by them. Post 2018 the college is headed by Prof. Ravi Toteja and his passion for UG research and social inclusivity resulted in getting DBT STAR STATUS to the college and bagging the flagship schemes like Paramarsh Scheme of UGC, Skill Hub and Unnat Bharat Abhiyaan of Govt. of India.

Major Activities and Achievements

ANDC features within top Science colleges of India presently with NIRF-2022 ranking of 18, India Today-2022 ranking 21 and a score of 3.31 on a four-point scale from National Assessment and Accreditation Council (NAAC). Research projects worth Rs. 1.9 crore are ongoing in the year 2021-22. Twenty-one

Ph. D. students are currently enrolled under the college faculty, four students submitted their Ph. D. thesis this year and five students were awarded Ph.D. degree under the supervision of faculty members of the college. Faculty members have authored 73 scopus indexed research publications. Sixteen faculty members of the college have been promoted to Prof. level.

Fifty-three students have bagged merit positions in the University of Delhi and fifty-five students have got merit positions in the University of Delhi South Campus. Nine students have been awarded Meritorious Students Award by Directorate of Higher Education, Government of NCT of Delhi. Acharya Narendra Dev Kaushal Kendra, Skill Hub @ ANDC is established under central component of Pradhan Mantri Kaushal Vikas Yojana 3.0 (PMKVY 3.0) through National Skill Development Corporation (NSDC), UGC Paramarsh and Unnat Bharat Abhiyan (UBA) of Government of India. Seven departments were granted 'Star Status' this year with an enhanced non-recurring grant and recurring grant for three years by Department of Biotechnology, Government of India. College has also initiated an online platform popularly referred to as Virtual Lab wherein modules related to scientific practicals and theoretical concepts are hosted. This has enabled the college to create an experience of simulation and animation for the students where all facilities of laboratories could be utilized online. Till date six experiments, Vlab@ANDC, have been prepared which can be accessed through the following link <https://www.vlab.andcollege.du.ac.in>. Another success chapter is the establishment of a Mushroom Research and Skill Development Centre (MRSDC) and Zebra Fish Culture facility



Honours/Distinctions

Prof. Gagan Dhawan awarded with 'Alexander Fleming Excellence Award - 2022' on 10 May 2022 by Biofootprints Foundation, India at All India Institute of Medical Sciences, New Delhi. He was also awarded 'Strada Scholarship for Emerging Leaders' on 10 January 2022 by School of Business and Technology, Washington DC, USA. Recently, Prof. Dhawan was felicitated as 'Institute of Eminence (IoE) Fellow' by Delhi School of Skill Enhancement and Entrepreneurship Development (DSSEED), Institution of Eminence, University of Delhi on 01 June 2022.

Prof. Sunita Hooda awarded with National Distinguished Researcher Award 2021 by International Multidisciplinary Research Foundation (IMRF) Institute of Higher Education, Vijaywada, Andhra Pradesh, in recognition of consistent superior performance in Polymer Chemistry on 11 November 2021 on the eve of World Science Day and National Education Day 2021.

Students with Distinctions

Jayant Wadhwa of B.Com. (Hons) I year was awarded rank I in University of Delhi. He has also got D. C. Arora Scholarship (Meritorious Category) of Rs. 10,000/- and Meritorious Students Award from Government of Delhi.

Rohit Rajesh Gokhale of B.Sc. (Hons) Biomedical Sciences III year was awarded rank I in the University of Delhi. He has got I position in the college-cumulative result as well.

Bindu of B.Sc. (Hons) Physics II year was awarded rank I in the University of Delhi and has got Meritorious Students Award from Government of Delhi. She is recipient of Meritorious Students Award from University of Delhi

Tarush Bajra of B. Com. (Hons) III year is I +II-year cumulative topper of B. Com (Hons) and has shown exceptionally good performance in extra-curricular activities.

Priyanshi Gupta, of B.Sc. (Hons) Maths III year was awarded rank I in the University of Delhi. She has got I Position in the College-Cumulative result.

Publications

Ahmadi, Z., Jena, H., Singh M., Dhawan, G., and Kumar P. (2021). Self-Assembled Biodegradable Core-Shell Nanocomposites of Amphiphilic Retinoic Acid-LMW bPEI Conjugates Exhibit Enhanced Transgene Expression in Hepatocellular Carcinoma

Cells with Inherent Anticancer Properties. *Journal of Pharmaceutical Sciences*, 110(8): 3047-3060.

Arora, G., Taneja, J., Bhardwaj, P., Goyal, S., Naidu, K., Yadav, S.K., Saluja, D., Jetly, S. (2022). Adverse events and breakthrough infections associated with COVID-19 vaccination in the Indian population. *Journal of Medical Virology*. 94(7): 3147-3154.

Hariwal, R. V., Malik, H. K., Negi, A., Asokan, K. (2022). Unravelling impacts of C ion implantations at polar angles in the physical properties of ZnO nanostructured thin films. *Materials Letters*. 308: 131200.

Khanna, L., Mansi, Yadav, S., Misra, N., Khanna, P. (2021). In water synthesis of bis (indolyl) methanes: a review. *Synthetic Communications*. 51(19): 2892-2923.

Samal, R. R., Panmei, K., Lanbiliu, P., Kumar S. (2022). Reversion of CYP450 monooxygenase-mediated acetamidiprid larval resistance in dengue fever mosquito, *Aedes aegypti* L. *Bulletin of Entomological Research*, 112(4): 557-566.

Saya, L., Malik, V., Gautam, D., Gambhir, G., Singh W.R. and Hooda, S. (2022). A comprehensive review on recent advances toward sequestration of levofloxacin antibiotic from wastewater. *Science of the Total Environment*. 813:152529.

Singh I., Gupta, P. K., Uma, R., Sharma R.P. (2022). Spatiotemporal nonlinear evolution of the laser pulse and turbulence generation in laser produced plasmas. *Physics of Plasmas*. 29(4): 042114.

Somasundaram, S., Abraham, J. S., Maurya, S., Toteja, R., Gupta, R., Makhija, S. (2022). Molecular characterization and transcriptional modulation of stress-responsive genes under heavy metal stress in freshwater ciliate, *Euplotes aediculatus*. *Ecotoxicology*. 31(2): 271- 288.

Srivastava S., Varshney, A., Katyal, S., Kaur, R., Gaur, V. (2021). A smart learning assistance tool for inclusive education. *Journal of Intelligent and Fuzzy Systems*. 40(6): 11981- 11994.

Tomer, N., Goel, A., Bhalla, P., Bhagat, P., and Malhotra, R. (2022). Chromone derived effective probe for the detection of metal ion (Cu²⁺) and



chemical explosive (p-nitrotoluene). *Journal of Photochemistry and Photobiology, A: Chemistry*, 427: 113823.

Research Projects

SERB-Department of Science and Technology funded project entitled, "Recombinant endolysins from mycobacteriophages: Exploring their anti-mycobacterial potential". Sanctioned amount of Rs. 46.70 lakhs. PI: Prof. Urmi Bajpai (Department of Biomedical Sciences)

SERB-Department of Science and Technology funded project entitled, "DNA barcoding for ciliate species identification of Delhi". Sanctioned amount of Rs. 41.97 lakhs. PI: Prof. Ravi Toteja and Prof. Seema Makhija (Department of Zoology)

Indian Council of Medical Research (ICMR) funded project entitled "Attractive Toxic Sugar Bait (ATSB) methods to control mosquitoes in different regions of Delhi and NCR". Sanctioned amount of Rs.35.28 lakhs. PI: Prof. Sarita Kumar and Mr. Ravinder Kumar Sagar (Department of Zoology)

Department of Science and Technology - Women Scientist Scheme-B funded project entitled, "Developing and documenting innovative practices for learning physics and biology through experimentation for children and young adults". Sanctioned amount of Rs.12.60 lakhs. PI: Prof. Sarita Kumar (Department of Zoology)

Indian Council of Medical Research (ICMR) funded project entitled "An investigational study on Mycobacteriophages and their enzymes as new drugs (IND) for treating tuberculosis". Sanctioned amount of Rs. 22.70 lakhs. PI: Prof. Urmi Bajpai (Department of Biomedical Sciences)

Patents Filed/Granted

Patent holder: Dr. Sunita Jetly (Department of Biomedical Sciences); Patent Granted in 2021 (Application no1568/DEL/2013) Title: "A novel beacon-based diagnostic probe/tool/kit for detection of translocation 8;21 in acute myeloid leukemia patients and method of working for the same".

Seminars Organized

Seminar entitled, 'Syzygy or Sisyphus: The Future of Environmental Policy Making' by Prof. Gaytha A Lagolis, Prof. of Environmental Policy at Bryant

University of Delhi: 99th Annual Report 2021-22

University, Rhode Island, USA organized by the Department of Zoology on 22 February 2022.

Seminar entitled, 'Designing of a Novel Vector for One-Step Cloning & Expression in E. coli' by Mr Shino James, IISER Bhopal organized by Department of Biomedical Science on 28 January 2022

Seminar entitled, 'Magnetic Nano- structures based Microwave Monolithic Signal Processing Devices' by Prof. Bijoy Kumar Kuanr. Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi organized by the Department of Electronics on 19 April 2022.

Seminar entitled, 'An introduction to astronomical observations' by Dr. Parminder Singh Dronacharya Government College, Gurugram organized by the Department of Physics on 29 March 2022

Seminar entitled, 'Biodiversity Conservation as if people and ecosystem matter' by Dr. Dhanya Bhaskar. Associate Prof. Indian Institute of Forest Management organized by the Department of Botany on 28 October 2021

Conferences Organized

Organized one week online International e-conference on 'Mitigating environmental issues by sustainable approaches (ICMCESA-2022)' on 22 February 2022 under the aegis of DBT Star College Scheme.

Organized three days online International Conference of Indian Network for Soil Contamination Research (INSCR) on 'Microbes in Sustainable Development' on 15-18 November 2021 in collaboration with INSCR, Deen Dayal Upadhyaya College (DDU College) and PhiXgen.

Organized a one-day Interaction Program with school students – 'Science Adda' on 20 December 2021 under the aegis of DBT Star College Scheme.

Organized an online International Outreach Program to celebrate International Microorganism Day as "MICROSPHERE 2021" on 27 September 2021 in collaboration with Deen Dayal Upadhyaya College (DDU College)

Organized a workshop on 'Basics of ARDUINO Programming' on 1 June 2021 by the University of Delhi @ ANDC SPIE Student Chapter.

Seminar/Conference Presentations

Dr. Anupama Shukla presented a paper titled "Report on the Indian Laboulbeniomycetes" in the 6th Annual International Conference of Indian Network for Soil Contamination Research (INSCR), on Microbes in Sustainable Development on 15-18 November 2021.



Dr. Sadanand Prasad presented a paper titled “Measuring Complexity and Chaos in Three - species Food Chain System with mixed selection of Functional Response “in International e-conference on "Mitigating Contemporary Environmental issues by sustainable approaches" (ICMCESA-2022) organized by Acharya Narendra Dev College, University of Delhi from 2022, February 22-28.

Dr. Geetu Gambhir presented a paper titled “Guar Gum Based Nanocomposites as Efficient Adsorbents for Dyes and Metal Ions from Waste Water” in the 6th Annual International Conference of Indian Network for Soil Contamination Research (INSCR), on Microbes in Sustainable Development organized during 2021, November 15-18.

Ms. Hanisha Bhagat presented a paper titled “A study of the relationship between ethical climate and psychological empowerment of visually challenged women employees at the workplace” in the International Conference on Literature, Language, Translation & Gender Studies 2021, Red Talks International Research Division, Vijayawada, Andhra Pradesh, India from 2021, July 16-17.

Prof. Seema Makhija presented a paper titled “Insight into the morphological and systematic position of a new species, *Gastrostyla indica* n. sp. (Protozoa, Ciliphora), isolated from Delhi, India” in an International e-conference on "Mitigating Contemporary Environmental issues by sustainable approaches" (ICMCESA-2022) organized by Acharya Narendra Dev College, University of Delhi from 2022, February 22-28.

Prof. Urmi Bajpai presented a paper titled “Isolation, Purification & Characterisation of Bacteriophages Specific To Mycobacterial Spp.” in a National Conference of Virology (virtual mode) on “Emerging and re-emerging viral diseases-climate change impacts and mitigation (VIROCON 2021)” organized during 2022, March 26-28.

Dr. Sharanjit Kaur presented a paper titled “Improving the Effectiveness of e-Learning Videos by Capitalizing On Eye-Tracking Data” in a National Conference on ‘NEP Implementation, challenges, opportunities and probable outcomes’ organized by Deshbandhu College, University of Delhi on 2022, May 13.

Dr. Pooja Bhagat presented a paper titled “Biological importance of Heterocyclic Compounds” in the 6th Annual International Conference of Indian Network for Soil Contamination Research (INSCR), on Microbes in Sustainable Development Development organized during 2021, November 15-18.

Dr. Rimpay Kaur Chowhan presented a paper titled “Understanding aggregation behavior of the brain antioxidant enzyme, Prdx6 and its relevance to neurodegenerative diseases of protein aggregation origin” in the Keystone Symposia on Neurodegeneration: The Biological Pathways Driving the Future of Therapeutic Development organized by Molecular and Cellular Biology in Colorado USA from 2022, June 5-9.

Mr. Ankit Singh presented a paper titled “A Study of Factors related to Perceived Organizational Support: A Special Reference to IT sector “in an International Conference on Sustainable Business: Revisiting Management Practices 2021 organized by Faculty of Management and Commerce, Manipal University, Jaipur from 2021, November 18-19.

National/International MoUs Signed MoU with NII (National)

National Institute of Immunology and Acharya Narendra Dev College joined together to launch the NII-Acharya Narendra Dev College Science Setu Programme. Such an endeavour is urgently needed since it raises public understanding of the value of science.

MoU with Auburn University of Montgomery, Alabama, USA (International)

Acharya Narendra Dev College, University of Delhi, India and Auburn University of Montgomery, Alabama, USA, have created a cooperative alliance. The program would encourage international credit transfer and progression arrangements, academic articulation agreements for various programs, the exchange of research and academic materials of mutual interest, collaborative and foster research activities and projects, the exchange of teaching expertise, the development of e-learning training, and the application of distance learning.

Other Inter-Institutional Collaboration 1. Skill Hub @ ANDC



National Education Policy (NEP) 2020 has recommended incorporation of vocational skills into School and Higher Education curriculums so that students can design their own paths of study and life plans. The 'Skill Hubs Pilot' is implemented under central component of Pradhan Mantri Kaushal Vikas Yojana 3.0 (PMKVY 3.0) through National Skill Development Corporation (NSDC) with the support of State Skill Development Missions (SSDMs), State Education Department/Agencies and District Skill Committees (DSCs).

Think Lab – Collaboration with CUBE

Think Lab is an autonomous lab of the students, which works without any supervision of teachers in collaboration with CUBE (Collaborative Understanding Biology Education) network, an initiative of Homi Bhabha Centre for Science Education, TIFR, Mumbai. Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.

Science-Setu Programme @ ANDC

Another Science-Setu program is in collaboration with the Translational Health Science Technology Institute (THSTI), Department of Biotechnology, Ministry of Science and Technology, Government of India. In this programme the scientists share their research interests with the undergraduate students of Acharya Narendra Dev College.

NPTTEL-SWAYAM Local Chapter @ ANDC

National Programme on Technology Enhanced Learning (NPTTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003 (Online web portal <http://nptel.ac.in>). NPTTEL began offering open online courses in March 2014 along with certificates from the IITs/IISc for those who completed the courses successfully. To encourage more students of our college to participate in this initiative, a SWAYAM NPTTEL Local Chapter is established in our college.

OPEN Initiative - Creative Commons Network @ ANDC

Acharya Narendra Dev College is known for being a pioneer in Open Educational Resources (OER) within the University of Delhi. Being committed to OER, the

college became an institutional member of the Creative Commons network in May, 2018.

University of Delhi @ ANDC SPIE Student Chapter

Society of Photo-Optical Instrumentation Engineers (SPIE), an international society advancing an interdisciplinary approach to the science and application of light, formally approved University of Delhi at Acharya Narendra Dev College SPIE Student Chapter in August 2010. The chapter is open to both students of Acharya Narendra Dev College and University of Delhi. With its establishment, college has joined the elite group within India of IITs, IISc, NIITs and DTU where this chapter has been successfully running for years besides more than 150 well established chapters in other countries like USA, UK, Europe, China, Russian Federation and Canada etc.

Placement Details

28

Number of Companies visited for campus recruitment

10 companies visited the campus in the year 2021-22. Companies visiting the campus were Wipro, Royal Bank of Scotland, Purple Tutor, Workgen Solutions Pvt Ltd, Connection Media, Tata consultancy, Princeton Helathcare Pvt Ltd, Byju's and Leadsquared.

Extension and Outreach Activities

Cancer Awareness: Four Cancer awareness programs at Nithari Village and Geja Village of NOIDA, Sanga Mitra BaudhVihar and Shakti Shalini of Nehru Nagar Delhi were organised under the aegis of Department of Science and Technology in collaboration with Dr. B.R. Ambedkar Centre for Biomedical Research and Delhi School of Public health, IOE University of Delhi on 1 April 2021, 15 May 2021, 29 May 2021 and 23 June 2021 respectively.

Thalassemia Awareness and Screening: Thalassemia Screening was undertaken on 11 November 2021 and 23 May 2022 at college premises and NSUT campus for awareness and screening of the youth for carrier state of Thalassemia in collaboration with team of Maulana Azad Medical College.

Vaccination Awareness Drive: Post COVID much needed vaccination awareness was created by visiting the slums of Okhla and Govindpuri Village from 22-25 July 2022 to educate them on importance of timely vaccination.

Blood Donation and Awareness: Blood Donation Camp was held on 24 September 2021. Blood Donation awareness rally was organized on 23 March 2022. College has adopted five Thalassaemic girls and have tried to arrange for their blood requirements during the COVID and post COVID times.

Library Development

Remote Access login for using the E-Resources of Delhi University were created for the faculty members. Acharya Narendra Dev College Library organized an online webinar on “E-resources of Delhi University and Inflibnet and NList” on 31 July 2021. During the Webinar, Dr. Rajesh Singh Librarian at University of Delhi Library System delivered the talk on “E-resources & Facilities Available through DULS”. Mr. Anand Prakash Yadav, Librarian, Lady Shri Ram

College (University of Delhi) enthralled the participants with his lecture on “E-resources of Inflibnet N-List (National Library & Information Services Infrastructure for Scholarly Content)”.

Library Orientation program was conducted online for incoming students. Students were motivated to subscribe for membership of N-List and use resources available.

Total No. of Books in library: 33589

Total No. of Magazine and Journals subscribed: 20

Faculty Strength

129

Financial Allocation and Utilization

Grants Allotted: Rs. 43 Crore

Grants Utilized: Rs. 40.67 Crore

ADITI MAHAVIDYALAYA



Brief History

It was the pioneer Principal Dr. Usha Puri who took the plunge of creating the ground work and laying the foundation of Aditi Mahavidyalaya in the year 1994. With a humble beginning of 200 students, 12 faculty members, 19 non-teaching staff members and a handful of courses, the college has transformed over the last two decades and proudly offers several prestigious courses. Today the true torch bearer of this institution, Principal, Prof. Mamta Sharma stands out as a true leader whose unrelenting guidance and persistent perseverance has set a benchmark of high quality and standards for the institution.

Situated on the outskirts of Delhi, Aditi Mahavidyalaya is the only institution of higher learning catering to a cluster of 52 villages – “Bawana”. The mantra of the college is to initiate holistic development of young women equipping them with the power to act and adapt to the growing challenges of the changing world.

With innovation and adaptation to technology we have pushed ourselves to raise the bar in both teaching and learning. All our stakeholders have made greater strides in use of ICT to accelerate and change the way we teach. Amidst the profound upheaval of 2020 our fundamental purpose never wavered. Numerous webinars, e- Conferences,



virtual tours, e- workshops and interactions were organized through the year and witnessed immensely positive response from one and all. Under the flagship of the University of Delhi, Aditi Mahavidyalaya is working with determination, persistence and perseverance to conquer newer horizons and soar higher and higher in the skies of success.

Major Activities and Achievements

TISS SAKSHAM PRAMAAN PROJECT: Aditi Mahavidyalaya is coordinating with Tata Institute of Social Sciences, Mumbai in supporting the National AIDS Control Organisation (NACO) under the Ministry of Health and Family Welfare to prevent and control HIV/AIDS in India. In this project Aditi Mahavidyalaya is supervising the evaluations of Target Interventions and Link Worker scheme that are funded by State AIDS Prevention and Control Societies.

TISS SAKSHAM PRAVAAH PROJECT: Aditi Mahavidyalaya has collaborated with Tata Institute of Social Sciences, Mumbai to work with Central TB Division under the Ministry of Health and Family Welfare to prevent and control TB in India. In this project Aditi Mahavidyalaya will be training the National TB Elimination Program frontline staff on counselling skills to control and deal with psycho social aspects of TB.

Honours/Distinctions

Prof. Priya Bir, Department of Psychology has been awarded Best Teacher Award by Government of NCT of Delhi

Students with Distinctions

Tenzin Chime from B.A. (Hons.) Social Work secured 1st position with a CGPA of 7.902.

Nisha secured 1st position in Senior State competition organized by 2nd SHAHDARA DISTRICT KABADDI CHAMPIONSHIP.

Punita secured 1st position in Seniors District kabaddi competition organized by 2nd SHAHDARA DISTRICT KABADDI CHAMPIONSHIP.

Khushbu bagged a gold medal in Kurush organized by U.P. STATE KURUSH CHAMPIONSHIP 2021-22.

Khushi secured a 1st position in Wrestling organized by DELHI STATE SENIOR CHAMPIONSHIP.

Publications

Gupta, P. (2021). Let's Talk it out: Anecdotes of an Askable Parent to Break Gender and Sexual Myths.

Indian Journal of School Health and Wellbeing IJSHW. 7(3): 21-24.

Kumar N. (2021). Trafficking Organs: In (Human) Harvest of Human Body Parts. 7(29340131): 22-34.

Patra, P. (2021). Land Degradation and Agricultural Sustainability in Kendujhar District, Odisha in the book authored by B. Thakur et al. Resource Management, Sustainable Development and Governance, Sustainable Development Goals Series, Springer, 1: 22.

Sawshilya, A. (2021). Communal realignment and Support for the BJP-General Election 2019. IJAR. ISSN 2320-5407.

Sharma M. (2021). Unfolding the potentials of Women and Girls including Children - Sabka Sath Sabka Vikas prspective. Anne Books, 1(1): 150.

Singh S. (2021). Fourth-order cubic B-spline collocation method for hyperbolic telegraph equation. Mathematical Sciences, 1: 1.

Singh S. (2022). A new patch up technique for elliptic partial differential equation with irregularities. 1: 1.

Wadhwa, M. (2022). Fun with Pranali: Students' Engagement with Edu-Tech Tools. 2348-0874, 1(9): 1-5.

Patents Filed/Granted

An Automatic Selection Technique for Machine Learning in a Virtual Environment with Enhanced Safety and Security by Prof. Mamta Sharma Patent No. 202141046002

Seminar/Conference Presentations

Prof. Neelam Rathi presented a paper entitled "शकुन एवं अपशकुन का राष्ट्रीय एवं सांस्कृतिक प्रदेय" in a two-day conference organized by DP College, Bilaspur, Chhattisgarh on 15 and 16 March 2022.

Prof. Neelam Rathi presented a paper entitled "अमृत महोत्सव" in the conference organized by Akhil Bhartiya Sahitya Parishad, Malwa on 19 February 2022.



Prof. Neelam Rathi presented a paper entitled “दिल्ली - साहित्य का प्रदेश” in conference organized by Indraprasth Sahitya Bharti on 10 February 2022.

Prof. Neelam Rathi presented a paper entitled “हिंदी नाटकों में पौराणिक संदर्भ के उपयोग और भारतीय संस्कृति पर प्रभाव की पड़ताल” in conference organized by Veer Narmad Dakshin Gujrat University on 2 February 2022.

Prof. Asha presented a paper entitled “Media aur naitikta” in an International Webinar organized by Hansraj College, University of Delhi.

Dr. Punita Gupta, presented a paper entitled, “Rastriya Shiksha niti 2020 ke Sandarbha me Vidyalayi Shiksha me Samajik Karyakartayon ki Bhumika evam peshe ka Samikshatmak Adhyayan” in the 9th Indian Social work Congress jointly organised by Matru Sewa Sangh Institute of Social Work, Nagpur held (virtually) from 28 to 30 October 2021 on the theme Nation Building, Vision 2030 and Social Work Profession.

Dr. Punita Gupta, presented a paper entitled ‘Critical Gender Pedagogy in School: NEP2020 Perspective and Teacher Training’ at the National Conference (online) on Learning 2021: NCL 2021 on Gender and Education, organized on 26 November 2021 by Department of Education, Lady Irwin College, University of Delhi, New Delhi.

National/International MoUs Signed

Prof. Neelam Rathi and Prof. Sadhna Jain signed an MoU for short-term courses on Media, Literacy, Entrepreneurship Development and Skill Development Training.

Department of Commerce signed an MoU for organizing a 30-hour short term course on “Cyber Security Essentials”

College signed an MoU with Shri Anurag Anand, Director, Platinum Technology for College ERP Module.

MoU was signed with ‘Udaan’ by Prof. Pooja Khanna for conducting Short Term courses.

Research Advisory Committee of the college signed an MOU with the National Productivity Council of India on 22 October 2021 to jointly organize and conduct Workshops/Training/e-learning Programs towards building awareness of Digital Skills and

Capacity Building initiatives for various central, state, and government departments as well as industry sectors and educational institutions.

MOU signing ceremony was organized by Research Advisory Committee of Aditi Mahavidyalaya in association with National Entrepreneurship development Cell (NEDC) on the 15 March 2022, in virtual mode with the main objectives to devise and impart training to students, to drive and develop practical curriculum to enrich experience and viability, project planning from introductory to growth stage and to guide the right structure with the time span in the field of Entrepreneurship and Skill Empowerment.

Department of Geography has signed MoU with NETRA Institute of Geoinformatics Management and Technologies Foundation (NIGMT Foundation), which is Non-Profit Premiere Institute serving the Geospatial Industry, and located in Dwarka. The institute will offer 30 hours training of Geoinformatics Technologies (Remote Sensing and GIS Technologies) for Aditi Mahavidyalaya students. Department of Commerce had organized an MoU with N.I.I.T. Foundation for organizing a 30-hour short term course “Cyber Security Essentials” that started on 10 March 2022 in college reading room. The course was conducted in an online mode by training partners “N.I.I.T. Foundation”.

Placement Details

51.

Number of Companies visited for campus recruitment

7

Extension and Outreach Activities

Department of Geography in the collaboration with science society and Eco Club of the college organised a virtual visit to Bio Diversity park, for all the years. Students were part of various other events organised by the committees and societies of the college and participated in the events of other colleges and secured positions in competitions. Industrial Visit was organized for final year students from Departments of commerce, geography and social work.

IQAC Committee of the college initiated following activities.



ATAL Faculty Development Program with Institute
Online portal for submission of Student's
attendance (optional)
Redressal of students queries within 24 hours by
having student centric Advisory Board
Kiosk/Help desk outside Principal Office and
procurement of token machine
Outreach initiative making the Open Gym available
to Girls/Women from nearby community from 8am
to 8:45am every day
Meditation Day every Thursday between 4pm to
5pm
Planned to conduct Inventory Management
workshop by University Officials for all stakeholders
Eco-club and Vigyan Sanjeevani Science Society of
Aditi Mahavidyalaya organised a jewel clay
moulding competition — precious occasion of
Women's day on 9 of March 2022.

Library Development

Library automation process was initiated at the
beginning of the academic year and is likely to be
completed soon. A reading room equipped with a
reference section has been established for the
faculty as well as for the students. The college
library has been energetic in providing remote
access to e-books, e-journals and e-resources to
both faculty members and students

Faculty Strength

100

Financial Allocation and Utilization

Funds allocated = Rs. 25,00,00,000/-

Funds utilized = Rs. 25,00,00,000/-

AHILYA BAI COLLEGE OF NURSING (ABCON)

Brief History

Ahilya Bai College of Nursing (ABCON) has a glorious
journey from nursing school to college of Nursing.
The college started in the year 1993. The School of
Nursing attached to Lok Nayak Hospital was
established in the year 1936 with intake of 15
students. It was one of the largest school of Nursing
in Delhi under the Delhi administration. School of
Nursing was upgraded in July 1993 to College of
Nursing and the institute named as Ahilya Bai College
of Nursing, Lok Nayak Hospital, New Delhi. The name
"AHILYA BAI" is the name of Holkar Queen of the
Maratha Malwa kingdom "Rajmata Ahilyabai".

Major Activities and Achievements

Mental Health Day was celebrated on 10 October
2021 on the theme of "Mental Health in an unequal
world".

World Alzheimer's Day was celebrated on 21
September 2021 on the theme of "Know Dementia,
Know Alzheimer's".

Swachhta Pakhawada (Swachh Bharat Abhiyan) was
organized in the month of March 2022 wherein
Nukkad Natak were conducted for community.

Seminar on International day of Midwife 2022 was
held on 5 May 2022 at Ahilya Bai College of Nursing
in collaboration with jhpiego. Interns of the college
actively participated in various competition like selfie
booth making, wall painting and article writing on the
theme by ICM "100 year of progress in midwifery".

Students celebrated festivals like onam, janmastami,
navratri, diwali, chirmas and also holi festival.
Teacher's Day was celebrated in ABCON auditorium.

A poster making competition was organized in Guru
Nanak Eye Center on 13 October 2021. Garima Pruthi
of IV year was awarded with II prize.

An Inter-college competition on the theme, 'Medical
surgical nursing named - Midi Quiz' was organized by
RAK college of Nursing on 1 November 2021.
Students of our college actively participated in this
competition.

Delhi State National Programme for prevention and
control of deafness organized an e-Poster and e-
Slogan competition on the occasion of World Hearing
Day 2022 on 28 February 2022. The theme of this
competition was 'To ear for life, listen with care'.



Students of our college participated in this competition with Mahima of IV year being awarded with II prize in poster competition.

World Environment Day was celebrated in our auditorium on 4 June 2022.

Students with Distinctions

Ms. Neha, D/o Mr. Mukesh Kumar IV Semester (Batch 2020-24)

Ms. Nidhuna George, D/o George Kutty, IV Semester (Batch 2020-24)

Ms. Anjali Choudhari, D/o Shamlal, IV Semester (Batch 2018-22)

Ms. Tanishka, D/o Sanjay Singh IV Semester (Batch 2018-22)

Research Projects

Project entitled, 'An exploratory study to determine students and teachers perception and satisfaction towards online education in a selected Government Nursing College of Delhi' for the year 2021-22.

Project entitled, 'A study to assess the impact of COVID-19 on education of undergraduate nursing students' for the year 2021-22.

Project entitled, 'A study to assess the incidences and prevalence's of jobs related stress and depression among staff nurses working in selected areas of selected hospital in New Delhi' for the year 2021-22.

Seminars Organized

Seminar on the Topic, "Journey of midwifery in India - 100 year of progress in midwifery" to improve the awareness about midwifery journey over last 100 years was delivered by Dr. Manju Chuggani, Principal of Jamia Hamdard College of Nursing on 5 May 2022.

Library Development

Library added new editions and special features in the current year. Library has around 2500 Books, 70 International Journals, 100 National Journals, 130 Reference Books and 30 Research Thesis. 147 new books were purchased in year 2021.

Faculty Strength

Total number of faculty members = One Principal and 13 Teaching faculty

Financial Allocation and Utilization

Financial Budget is allocated by the Lok Nayak Hospital, New Delhi-02 which is funded by Department of Health & Family welfare of Govt. Of NCT of Delhi

AMAR JYOTI INSTITUTE OF PHYSIOTHERAPY





Brief History

Amar Jyoti Institute of Physiotherapy affiliated to University of Delhi has always been appreciated and acknowledged as a centre of excellence for skill development and our academic quality is demonstrated, extended, recognised and sought after.

Institute is offering Bachelor of Physiotherapy (BPT) which is a four and a half year course and two years of Master of Physiotherapy course in two speciality, namely, Musculoskeletal Physiotherapy and Neurological Physiotherapy. College parallelly runs an OPD under nine speciality clinic. Institute completes the successful journey of 19 years this academic year. Institute has attained the pinnacle and is one of the finest institutions providing a holistic approach which in turn transforms the students in the best of physical therapists.

Major Activities and Achievements

Amar Jyoti Institute of Physiotherapy, University of Delhi is a well-known Institute of excellence. Amar Jyoti is an institution of knowledge where science and experience go hand in hand and has always been committed to create a congenial environment, which helps young minds blossom and provide a platform for individual thinking and holistic development of the student's personality. It has created a reputation for its quality programs, student engagement and applied research, that has been enabled by a creative, innovative and supportive academic organizational structure and learning culture. We are proud to say that it is one of the centres of excellence in the field of physiotherapy in India.

The primary objectives of the Institute are to provide students with comprehensive and stimulating environment for theoretical and applied learning, as well as teaching facilities for the development of skill and competencies – both clinical as well as academic. Our educational ecosystem embraces a student-centred approach in offering excellence in applied professional education. This year faculty and students entered a new world of virtual teaching mode. The e-learning posed challenges not only to students but also to faculty. However, the innovative and highly-skilled faculty, who worked collaboratively, resourcefully and creatively using online apps, video lectures and assignments, created

an interesting and enjoyable experience for our students. Institute takes exceptional effort to enhance the academic standards of students enrolled in the Bachelor's and Master's programs. Institute takes pride in the faculty/student research endeavours. Institute completes a successful journey since 1999 and our quest to achieve excellence and continued accolades for our students will continue.

Honours/Distinctions

Dr. Raju K Parasher, nominated as a member of Board of studies of Manav Rachna International Institute of Research and Studies, Faridabad and Sri Ramachandra Medical University, Chennai.

Dr. Raju K. Parasher, nominated as an Ethical Committee Chairperson for SVNIRTAR, Cuttack, Orissa.

Dr. Jeyanthi S., recognized as a reviewer of "e-Neurological Sci".

Dr. Kshitija Bansal, awarded with Ph.D. degree in December 2021 from Faculty of Applied Health Science, Manav Rachna International Institute of Research and Studies, Faridabad. Topic of her thesis is "Health and fitness in elementary school children".

Students with Distinctions

Bachelor of Physiotherapy (BPT): Students of Amar Jyoti Institute of Physiotherapy once again excelled in the University examination.

Ms. Yashika Badolia and Ms. Varsha Aggarwal of II year secured 2 and 3 rank respectively in the University.

Ms. Neha Gupta, Ms. Anushka Garg and Vrinda Taneja of III year secured 1, 2 and 3 rank respectively in the university.

Ms. Nandini Narang, Ms. Mahima Bhatia and Ms. Yashika Bhourawal of IV year secured 1, 2 and 3 rank respectively in the university.

Ms. Mridula Dua secured overall 1 position in the University of Delhi in all examinations held from 2017-2021.

Apart from this our BPT students secured around 134 subject wise distinctions and 26 overall distinctions Master of Physiotherapy (MPT):

Ms. Sneha of MPT I year from the Neurological Physiotherapy stream secured the 1 position.



Ms. Sonali Tushamer of MPT I year from the Musculoskeletal Physiotherapy stream secured the 1st position.

Ms. Shayesta Neam of MPT II year from the Neurological Physiotherapy stream secured the 1st position

Ms. Shivani Ahuja of MPT II year from the Musculoskeletal Physiotherapy stream secured the 1st position

And our MPT students secured 22 subject wise and overall 6 distinctions.

Publications

Gujral, T., Jeyanthi, S., Sharma K. (2021). Effect of moderate intensity resistance training with blood flow restriction on muscle strength and girth in young adults – a randomized control trial. *Journal of complementary & integrative medicine*. <https://doi.org/10.1515/jcim-2021-0271>.

Jahagirdar, S., Parasher, R. K. (2021). Developing a questionnaire to determine risk factors associated with fear of falls. *International Journal of Current Research and Review*, 23: 37-43.

Jeyanthi, S., Arumugam, N., Parasher, R.K. (2021). Effectiveness of structured exercises on motor skills, physical fitness and attention in children with ADHD compared to typically developing children-A pilot study. *eNeurological Sci*, 24:100357.

Patki, K., Sanghi, D., Parasher, R. K., Bhatnagar, B. (2021). The Micronutrient Consumption in Indian Elementary School Children across Socioeconomic Strata. *International Journal of Child Health and Nutrition*. 10: 24- 33.

Samuel, A., Shukla, M. (2021). Systolic Blood Pressure and Heart Rate Responses of Individuals with Neck Versus Abdominal Obesity in Response to -Incentive Spirometry Based 10 Sustained Maximal Inspirations (A Possible Clinical Tool). *International Journal of Current Research and Review*. 13: 114-117.

Sharma P. (2021). Association of blood pressure and postural control in older adults with hypertension: an observational study. *Comparative Exercise Physiology*. 2(18): 117 – 123.

Research Projects

Society of Indian Physiotherapists sponsored project in the year 2021-2022, entitled, 'The Physical and Psychosocial Health of adolescent school children in

Delhi-NCR' for sanctioned amount of Rs. 50,000/-.

Principal Investigator - Dr. Raju K Parasher
Self-sponsored project entitled, 'Relationship of Core Muscle Performance with Static and Dynamic Balance in Young Adults'. Principal Investigator - Dr. Tarun Kumar (PT)

Self-sponsored project entitled, 'Deficits in Balance, Function, Cognition & Quality of Life in Indian Cancer Survivors'. Principal Investigator - Dr. Nidhi Singh (PT)

Self-sponsored project entitled, 'Prevalence of proximal strength deficits and efficacy of structured training program on knee osteoarthritis'. Principal Investigator - Dr. Tarun Kumar (PT)

Self-sponsored project entitled, 'Determining the prevalence, type of sensory deficits & degree of Neuropathy following chemotherapy in cancer'. Principal Investigator - Dr. Nidhi Singh (PT)

Seminar/Conference Presentations

Dr. Mansi Mittal presented a paper entitled, 'Default common mistakes while performing yoga' held on 20th and 21st November 2021, organised by Gomukeshwara Research Institute of Yoga and Naturopathy Trust, Coimbatore, Tamil Nadu.

Ms. Shivani Ahuja presented a paper entitled, 'A Comparative Study of Yoga and Structured Exercises on Muscle Strength and Quality of Life in Primary Dysmenorrhea – A Pilot Study' and secured first position at BCIPCON 2021 conference held on the 2021, July 23.

Extension and Outreach Activities

Dr. Tarun Kumar along with internship students organized a free bone and joint awareness camp at Amar Jyoti on 14 March 2022. Bone Mineral Density (BMD) analysis of the participants / patients was performed. Later muscle strength of core and hip musculatures along with lower limb function was analysed for the patients. Participants were provided awareness on introduction of bone and joints related issues, causes, risk factor, sign and symptoms, diagnostic criteria, complication, role of physiotherapy, prevention and exercises amongst the community. Approximately 100 patients were benefitted in this program. Role of exercises in prevention related to the condition was also explained. More than 60% participants were indicative of osteoporosis, as per the BMD score. Individuals who required further physiotherapy



management were referred for treatment at Amar Jyoti OPD.

Library Development

Rs. 26,184/-.

Number of books added during the academic year 2021-22 were 34.

Faculty Strength

Academic: 14

Clinical: 2

Financial Allocation and Utilization

Funds allocated = Rs. 25,000/-

Funds utilization = Rs. 25,000/-.

ARYABHATTA COLLEGE



Brief History

Established in the academic year 2014-15, Aryabhata College is an emerging institution of higher education in India. A constituent college of University of Delhi, the college is named after an Indian mathematician, Aryabhata, and in honour of his unparalleled mathematical and astronomical contributions, as well as his visionary approach. Living up to its treasured motto, the college has been devotedly working towards the creation of an educational space that believes in the impartation of empirical knowledge. Located amidst the picturesque Aravali range, college is being distinctly recognised for its achievements in extracurricular activities along with its academic performance. Students' enthusiastic engagement in a myriad of cultural and sports events, conducted throughout the year, allow for their holistic development. Some of the college faculty members are distinguished authors and prominent researchers.

Major Activities and Achievements

Prof. B. Mangalam presented her original poems at Masala Chai Musings. She translated a play, named Baarish, from Tamil to Hindi. This play was staged by the LTG Repertory and by Samarth Theatre, Delhi. Be it in academic pursuit, or sports, our students have excelled with each passing year. In the current academic year, despite the challenges posed by the pandemic, our athletes displayed full spirit of

enthusiastic participation in various sports events. Shyan Sharma and Tushar Kalyan awarded with gold medal in Delhi University Gymnastic Championship. Nitish Kumar Yadav, Aditiya Das and Rajender were awarded with bronze medals in Delhi Kho Kho Championships.

In what is a stunning example of perseverance and resilience, Pankaj from B. A. (Hons) Hindi was awarded with a silver medal in 'Dumb, Deaf & Visually impaired Judo Championship'.

Himanshu too brought home laurels during the 23rd Youth National Volleyball Championship in the year 2022.

Honours/Distinctions

Ms. Aakanksha Singh was awarded with design patent entitled "SAMAY SEEMA".

Dr. Shivani Raheja was conferred with several awards in recognition of her teaching excellence namely 'Best Teacher of the Year for the Indian Glory Awards 2022', 'Global Faculty Award 2021' and was selected for the 'Dr. Sarvepalli Radhakrishnan Best Faculty Award 2021'. She has also been conferred with the honorary position of the Indian Ambassador to Bhatt Foundation Incorporation, USA in April 2022

Sh. Binoy Bhushan Agarwal was invited for the 5th year in a row to be the Senior Judge for Queen's



Commonwealth Essay Competition held under the aegis of The Royal Common Wealth Society, London.

Students with Distinctions

Mr. Yuvraj Pratap Singh was awarded with the overall college Topper Prize in BBE.

Mr. Somansh Arora was awarded with the overall Topper Prize in B.A. (Hons) Economics.

Mr. Keshav Goyal was awarded with the overall Topper Prize in B.A. (Hons) English.

Ms. Supriya Yadav was awarded with the overall Topper Prize in B.A. (Hons) Political Science.

Mr. Rughani Jeet Nitinbhai was awarded with the overall Topper Prize in B.A. (Hons) Psychology.

Publications

Agarwal, B. B. (2021). Charlotte Perkins Gilman's 'The Yellow Wallpaper'. School of Open Learning, University of Delhi. 1-15.

Agarwal, B. B. (2021). Begum Rokeya's "Sultana's Dream". School of Open Learning, University of Delhi. 16-27.

Deb, S. (2021). Living Conditions and Social Distancing Barriers in India. *Social Change*, 51(2): 241- 245.

Mangalam, B. (2021). Representation of Disability in Classical and Contemporary Literature: A Reading of Select Narratives from Sanskrit and Tamil. *New Horizons*, XVIII: 1-11.

Mangalam, B. (2021). Life Narratives as Documentation of a community: A Reading of K. A. Gunasekaran's *Vadu* and the context of Tamil Dalit Life Narratives. *Journal of Comparative Literature and Aesthetics*, 44(4): 65-73.

Singh D. (2021). Virtual Classroom: Importance and Challenges. *Sodh Sarita*, 8 (29): 93-97.

Singh D. (2021). Dr. Ambedkar Views of New India as an Anthropologist at Par in the UGC Care Listed Journal *Bengal Past and Present*. *Bengal Past and Present*, 117(3): 164-167.

Singh A. (2021). Bilevel Transportation Problem in Neutrosophic Environment. *Computational and Applied Mathematics*, 41(1): 1- 25.

Journals

Sufiya Salim et al. (2021). *The Front Runner*. Annual basis. 1(April): 1-36.

Research Projects

Mahatma Gandhi National Council of Rural Education (MGNCRE) sponsored project entitled, 'Analytical Study of TLC Courses: A Rural perspective' and sanctioned in the year 2021 for Rs. 2,00,000/-. Indian Council of Social Science Research (ICSSR) sponsored project entitled, 'A Machine Learning Framework for Financial Fraud Forecasting' and sanctioned in the year 2022 for Rs. 5.5 lakhs.

Patents Filed/Granted

Ms. Aakanksha Singh was awarded with design patent entitled "SAMAY SEEMA" with patent number 333531-001.

Seminars Organized

Seminar entitled, 'Building an Appetite for Knowledge: Academic Writing in the 21st Century' delivered by Mr. Anuj Gupta, from University of Arizona on 2021, October 26.

Seminar entitled, 'Colorless Green Ideas Sleep Furiously - What is Coherence?' delivered by Dr. Anannya DasGupta, from Krea University in the 3-Day Academic Reading & Writing Workshop for Undergraduate Student on 2021, November 09.

Seminar entitled, 'Digital Marketing Vertical Head and Corporate' delivered by Yamini Katara during the 'Search Engine Optimization' Skill Enhancement program organized on 2021, October 08.

Seminar entitled, 'Changing nature of Employment and Work in India' delivered by Prof. Vinoj Abraham from Centre for Development Studies, Thiruvananthapuram on 2021, October 05.

Conferences Organized

Social Entrepreneurs Conference was organized by college on 2021, November 20.

Seminar/Conference Presentations

Prof. B. Mangalam presented a paper entitled, 'The Relevance of Translation: The Context of India' at the DCAC Literary Fest. He also delivered lectures on 'Modern European Drama' at Ram Lal Anand College and on 'Silappadhikaram' at the Manikchak College, University of Gour Banga.



Rajendra Dayal presented a paper entitled, 'Asymmetric Federalism in Northeast: Failures, Struggles, and Enduring Relevance' at the National Conference on Asymmetric Federalism in India organized by the Department of Political Science, Motilal Nehru College, University of Delhi, on 2022, March 3.

Binoy Bhushan Agarwal presented paper entitled 'Of Sea and Ships: Voyages aboard East Indiamen' at the International Postgraduate Port and Maritime History Network organized by University of Stirling, United Kingdom on 2021, August 25.

Suvojit Chakravarty presented a paper entitled 'Policy Transmission in Indian Money Markets - Role of Announcement effect and Liquidity Effect's' at the 6th Biennial International Conference on "The Financial Ecosystem: Disruptions and the way forward" held at Sri Guru Gobind Singh College of Commerce, University of Delhi on 2022, March 10-11.

National/International MoUs Signed

In all three MoU were signed during the academic year 2021-22.

Other Inter-Institutional Collaboration

Collaboration with Bhatt Foundation Incorporation- USA and Bhatt Charity Foundation-India.

Collaborations with Amity College Florida - USA for promotion of Faculty Exchange and learning.

Collaborations with Atal Incubation Centre - Jawaharlal Nehru University Foundation for Innovation.

Placement Details

A total of 60 students were placed this academic year 2021-22.

Number of Companies visited for campus recruitment

A total of 45 companies visited campus for recruitment.

Extension and Outreach Activities

College initiated Counselling and Mentoring Programs and COVID-19 Counselling Psycho-Social Helpdesk for students and faculty members. In addition to counselling sessions, an alumni series, career counselling sessions, skills development workshops, mental health awareness week, were also organised by the college. Swavalamban - The Startup Club successfully conducted impactful projects and various events.

In continuation with its efforts towards sensitizing the community regarding gender equality practices, the college's Gender Sensitisation committee worked in close and continuous coordination with students across disciplines to organize awareness and sensitisation workshops. The committee held screenings of movies, documentaries, talks and webinars to sensitise students and faculty on issues pertaining to multifarious aspects and issues related gender. The committee also collaborated with college NSS unit, Hindi and History Departments in hosting webinars and screenings.

Library Development

College library upgraded itself in various aspects and added new titles to its list.

Faculty Strength

Total number of faculty in college = 92.

Financial Allocation and Utilization

Grant sanctioned = Rs. 41,06,23,000/-

Grant utilized = Rs. 29,28,28,787/-

ATMA RAM SANATAN DHARMA COLLEGE





Brief History

Atma Ram Sanatan Dharma College (ARSD College), is a co-educational constituent college of University of Delhi and was founded on 3 August 1959 by the Sanatan Dharma Sabha (Rawalpindi) based in Delhi. The visionaries behind this dream were Sh. Mela Ram Jaggi, Sh. Ganga Ram Gujral and Sh. Lala Devi Ditta Shah Talwar. In 1968, Shri Atma Ram Chadha joined the college governing body. ARSD College is a premier educational institution of University of Delhi, which aims to nurture excellence in education. It emphasizes on fostering quality of human resources and promoting productive ideas that benefit the students. Since its inception, college has focused on character building and idealism inspired by Sanatani values. College embraces Inclusivity and Equitability as its founding principles. Promotion of women's education and ensuring a barrier-free, non-discriminatory, and supportive ecosystem for all members of the college are, therefore, a priority at ARSD College. College is concerned primarily with creating an institution in tune with contemporary demands and enabling the holistic development of all its stakeholders. College's exponential growth over the past few years, its emphasis on undergraduate research, entrepreneurial initiatives, skill development, strong industry-institution linkages, and ICT-enabled learning environment, are geared towards the facilitation of sustainable and self-sufficient systems as well as institutions. The motto of the College, Tejasvi-naavadhitam-astu, has been taken from Taittiriya Upanishad and means, "May our learning be endowed with radiance". College, for its sincere endeavours and accomplishments, was ranked 7th by the NIRF India Rankings 2022 (college category).

Major Activities and Achievements

IQAC of the college launched an in-house Interdisciplinary Research and Innovation Projects Scheme - PRABODH to encourage undergraduate research in the college and to inculcate innovative thinking in the students, providing minor funding support to encourage research in areas that go beyond the curriculum boundaries.

Vidya Vistar (V2) Scheme was initiated by University of Delhi for developing academic cooperative bonding between the colleges of University of Delhi

with the colleges of universities situated in remote areas of the country. College has signed MoUs with two colleges in Uttarakhand under the scheme with the purpose of promoting capacity building and institutional collaboration.

Certificate courses are offered under IIRS-ISRO Outreach Programme, which is run by the Indian Institute of Remote Sensing, Dehradun, a constituent unit of Indian Space Research Organisation (ISRO), Department of Space, Govt. of India.

INTERN-O-FEIRA 4.0: INTERN-O-FEIRA 4.0, the annual job and internship fair of the college was held from 21-25 February 2022 to ensure a great first-step to students' corporate journey. Over 75 companies including Sharekhan, Finoability, Chegg, AMBCrypto, Pratham etc. participated in the fair offering internship opportunities to more than 220 students from all over the country.

Theatre Festival – Rangsheersh Jaidev Theatre Festival (RJTF-22): RJTF-22 proved to be a platform of immense learning and comprised of two plays which are mentioned below. These plays were staged successfully at Shri Ram Centre of Performing Arts, Mandi House, New Delhi.

1. "KONARK" which was written by Shri Jagdish Chandra Mathur and directed by "Shri Ravi Taneja".
2. "EK MAMULI AADMI" which was written by Shri Ashok Lal and directed by "Shri Vashishtha Upadhyay".

Azadi Ka Amrit Mahotsav for celebrating 75 years of India's Independence: In an endeavour to foster national unity, integrity, patriotism, harmony and sense of togetherness, students, faculty and other staff members took pledge to celebrate Azadi ka Amrit Mahotsav until the next Independence Day. College conducted the following activities during the month of August 2021. On 12 August 2021, NSS unit of the college organized Essay writing competition on the theme 'Role of women in India's Independence'. NSS also organized 'Inspiration from a Soldier Life - An Uphill Story' on 13 August 2021 and 'Umang' on 14 August 2021. Hindi Parishad and Samanvay society of college organized 'Swarachit Kavya Pathya Pratiyogita' on the theme 'Desh Prem Aur Rastriye Swatantrata Andolan' on 13 August 2021. On 21 August 2021, Department of History organized a lecture by Prof. Syed Inayat Ali Zaidi, Department of History & Culture, Jamia Millia Islamia, on the theme



'Making of Indian Nation'. Hindi Parishad organized a lecture by Shri. Priyadarshan, a Senior Journalist, on the theme 'Swadheenta Aur Bhartiayata' on 28 August 2021.

Honours and Distinctions

Dr. Manish Kumar is listed among top 2% scientists world-wide by the Stanford University Ranking - 2021. As per this website, his World Rank is 173643 and India Rank is 2083 out of total 3352 names in the list of Indians.

Capt. Prof. Sandeep, ANO NCC, received Director General, NCC Commendation award (National level Award) from DG NCC and Promoted Lieutenant to Captain Rank.

Students with Distinctions

Aditya Mishra, of B.A. (Program) II year has been recognised as the youngest National Bestselling Author in India for his book entitled, "The Cartel Workers" published by Penzone Publishers and broadcasted in media by an online media portal 'News track live' and 'Frontlist News'. In December 2021, his novel entitled "You Made Me a Killer" was also published by Notion press.

Himanshu Nandal of B.A. Political Science (Hons) won two gold medals in 21st National Para swimming championship held at Udaipur in March 2022.

Manish Bhati of B.A. (Pass) III year represented University of Delhi in All India Inter-University Archery Championships and was also selected to participate in Khelo India 2022.

Lokesh Hans of B.Sc. Maths (Hons) III year represented Delhi University in North Zone inter University Chess championship where D.U secured 4th position and he was also selected to represent Delhi University in All India Inter University Chess championship.

Mr. Sanhit Bishnoy of B.A. (Hons.) Political Science III year won 1st position in IGU Samarvir Sahi Amateur Golf Championship, 2021, 4th position in IGU Delhi NCR Cup Amateur Golf Championship - 2021, and 2nd position in TATA Steel PGTI Qualifying School 2022-Final Stage Presented by Gujarat Tourism.

Publications

Number of Books Authored/Edited/Chapter in Books/Reviews- 22

Khan, Z.R., Alshammari, A.S., Shkir, M., Bouzidi, M., Mohamed, M., Kumar M., Sonker, R.K. (2022). Effect of Ag doping on structural, morphological and optical

properties of CDO nanostructured thin films. *Physica B: Condensed Matter*. 632: 413762.

Kumar A., Tyagi, S., Kumar R., Sharma S., Sharma M., Adalati, R., Kumar Y., Chandra, R. (2022). Catalyst-free grown carbonaceous MoS₂ nanoworm electrodes for symmetrical supercapacitors. *Materials Letters*. 323:132576.

Kumar M., Raj, A., Kumar A., Anshul, A. (2022) Computational analysis of bandgap tuning, admittance and impedance spectroscopy measurements in lead-free MASnI₃ perovskite solar cell device. *International Journal of Energy Research*. 46(8): 11456-11469.

Kumari, K., Kumar A., Bahadur, I., Singh P. (2021) Investigate the interaction of testosterone/progesterone with ionic liquids on varying the anion to combat COVID-19: Density functional theory calculations and molecular docking approach. *Journal of Physical Organic Chemistry*. 34 (12): e4273.

Lamba, P., Singh P., Singh P., Singh P., Bharti, Kumar A., Gupta, M., Kumar Y. (2022). Recent advancements in supercapacitors based on different electrode materials: Classifications, synthesis methods and comparative performance. *Journal of Energy Storage*. 48:103871.

Mishra, D., Maurya, R.R., Kumar K., Munjal, N.S., Bahadur, V., Sharma S., Singh P., Bahadur, I. (2021) Structurally modified compounds of hydroxychloroquine, remdesivir and tetrahydrocannabinol against main protease of SARS-CoV-2, a possible hope for COVID-19: Docking and molecular dynamics simulation studies. *Journal of Molecular Liquids*. 335: 116185.

Raj, A., Kumar M., Kumar A., Laref, A., Singh K., Sharma S., Anshul, A. (2022). Effect of doping engineering in TiO₂ electron transport layer on photovoltaic performance of perovskite solar cells. *Materials Letters*. 313: 131692.

Raman, A.P.S., Singh M.B., Chaudhary, M., Bahdur, I., Jain, P., Kaushik, N., Choi, E.H., Kaushik, N.K., Lal, A.A., Singh P. (2022). DFT calculations, molecular docking and SAR investigation for the formation of eutectic mixture using thiourea and salicylic acid. *Journal of Molecular Liquid*. 362:119650.



Singh H.N., Swarup, V., Dubey, N.K., Jha, N.K., Singh A.K., Lo, W.C., Kumar S. (2022). Differential Transcriptome Profiling Unveils Novel Deregulated Gene Signatures Involved in Pathogenesis of Alzheimer's Disease. *Biomedicines*. 10(3): 611.

Singh P., Kumar D., Pal, S., Kumari, K., Bahadur, I. (2022). L-amino-acids as immunity booster against COVID-19: DFT, molecular docking and MD simulations. *Journal of Molecular Structure*. 1250: 131924.

Books Published

Dr. Goutam Choubey, *Indian Popular Fiction: New Genres, Novel Spaces, Bhojpuri Leisure: Popularity, Profanity and Piracy in Indian Popular Writings*, 2021.

Dr. Achingliu Kamei, *Songs of Raengdailu, A Book of Poems*, 2021, 978-93-5529-012-0, Authorspress.

Dr. Asha Pandey, *व्यंग्य : साहित्य और भाषा*, 2021, 978-93-86817-471, Alankar Publishing House, Delhi.

Mr. Ajeet Kumar *150 Years of Mahatma Gandhi: Social Justice and Untouchables: A View of Mahatma Gandhi*, 2021, 978-93-8478388-4, Nirmal Publishing House, Kurukshetra.

Dr. Syed Mubin Zehra, *Historical Method and Historiography*, 2021, 978-93-5338-713-6, Directorate of Distance Education, Jhnaana Bharathi Campus Bangalore University, Bengaluru.

Dr. Anjali Sharma Kaushik, *Science Validates Wonders of Yoga*, 2021, 978-1913936112, HP Hamilton Publications.

Research Projects

SERB - Department of Science and Technology (DST) sponsored project entitled, 'New strategies for Regioselective C-H functionalization of Aromatic and Heterometric Precursors', under the Project Investigator- Prof. Sunita Bhagat for the period of 2021-2024. Amount sanctioned – Rs. 18,54,560/-.

SERB-DST sponsored project entitled, 'Investigation and development of cost-effective solid electrolyte for ITSOFC applications' under the Principal Investigator Dr. Raghvendra Pandey, for the period of 2021-2024. Amount sanctioned - Rs. 1,78,950/-.

CSIR funded project entitled, 'Preparation of manganite-ferrite nanocomposites for sensor applications', under the Principal Investigator Dr. S. Shankar Subramaniam for the period of 2021-2024. Amount sanctioned - Rs. 6,11,280/-.

SERB-DST sponsored project entitled, 'Design and optimization of performance of hybrid capacitors using graphene (nano carbons)/metal oxide nanocomposite electrodes with sodium ion-based electrolytes', under the Principal Investigator Dr. Yogesh Kumar (PI) for the period of 2018-2021. Amount sanctioned- 23 Lakh

ICSSR funder project entitled, 'A study on urban governance around realities and suggestions for effective and innovative public policy in India', under the Principal Investigator - Dr. Surendra Singh for the period of 2019-2021. Amount sanctioned- 6 Lakhs.

Seminars Organized

A national webinar entitled, "India's Afghan Policy After Taliban 2.0 Takeover" by Maj. Gen (Retd.) Dhruv C. Katoch, SM, VSM, Director: India Foundation, New Delhi and Prof. Santishree Dhulipudi Pandit, Department of Political Science, University of Pune, was organised by Republica: The Association of Political Science, on 2021, September 16.

A webinar entitled, "Exploring Utopia through Omelas: Philosophy and Science Fiction" by Ms. Sanam Khanna, Associate Prof., Department of English, Kamala Nehru College, University of Delhi, was organised by English Association on October 2021, October 25.

A webinar entitled, "What is LLP and Why We Need It in Optimization Techniques?" by Dr. Harish Garg Associate Prof., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab was organised by the Department of Mathematics, under the aegis of Internal Quality Assurance Cell (IQAC), on 2021, November 01.

A webinar entitled, "Communication: Past, Present and Future" by Dr. Ravneet Kaur, Associate Prof., Acharya Narendra Dev College, University of Delhi was organised by Department of Electronics, on 2022, February 03.

A webinar entitled, "Financial Literacy" by Ms. Daksha Gogia, Trainer for Financial Literacy & Investor Education, Board of Industry-Academia Partnerships (BIAP) was organised by the Commerce Association on 8th February 2022. The session focused on how one can invest their savings in right avenues and at the right time, especially in times of inflation.



Conferences Organized

An Online Interdisciplinary Refresher Course (Bilingual) entitled, "Cinema, Society & Education," was organized from 6 to 19 April 2021, in collaboration with Teaching Learning Centre, Ramanujan College under the aegis of PMMMNMTT, MHRD.

An online, bilingual Refresher Course entitled, "The Quintessential Educator-Challenges and Opportunities in the Changing World" was organized by the College in collaboration with Teaching Learning Centre, Ramanujan College under aegis of PMMMNMTT, MHRD from 23 August to 6 September 2021.

Department of Physics and IQAC of the college organized an International Conference entitled, 'Recent Advances in Functional Materials (RAFM-2022)' from 14 to 16 March 2022 in an online mode. A total of 344 participants from all over the globe participated in the international conference.

Seminar/Conference Presentations

Dr. Veer Sain Dixit in collaboration with Dr. Harita Ahuja, Dr. Sunita Narang, from ANDC College presented a paper entitled, 'A Proposed Entropy based Recommender Framework for Disaster Management', in the 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO organized from 2021, September 03-04.

Dr. Kanchan Srivastava presented a paper entitled, 'Phytoecdysteroid Changes in Amino Acid Profile in Haemolymph of Bombyx mori Larvae', in an International Conference on Agriculture, Climate Change & Life Sciences in the year 2021.

Dr. Anjali Sharma Kaushik presented a paper entitled, 'Advanced Functional Materials and Devices' which was also published in the Proceedings of an International Conference on "Advanced Functional Materials and Devices (AFMD-2021)" held during 3 to 2021, March 05.

Dr. Manika Jain presented a paper entitled, 'An Investigation into The Relationship Between AI Enabled Chatbots & Buying Behaviour of Consumers in Delhi - NCR Region' in an E-Conference on "Organizational Renaissance in the Post COVID Era" organized by the Delhi Institute of Advanced Studies on 10 April 2021. The paper was awarded as the Best Paper during the Conference.

National/International MoUs Signed

MoU was signed between ARSD College and National Productivity Council (NPC), an autonomous organization under the DPIIT, Government of India, wherein ARSD college is the nodal college for empanelling and involving other colleges for work related to customized trainings/capacity building programmes and promoting entrepreneurial activities amongst students. Atma Ram Sanatan Dharma College, University of Delhi, under the aegis of IQAC, in collaboration with National Productivity Council, DPIIT, Ministry of Commerce & Industry, New Delhi, has successfully run a three months' online course in "Internship in Information Technology (IT)" to train students in the most in-demand IT domains such as Cloud Computing with IoT, Data Analytics, AI & ML, Robotics, Blockchain and Hyperledger. The course was initiated in December 2021.

MoUs signed between ARSD College and National Skill Development Corporation (NSDC) and Management & Entrepreneurship and Professional Skills Council (MEPSC) respectively. ARSDC Skill Hub centre is a nodal skill centre identified to provide skill development and vocational training opportunities to target population segments. The first initiative taken was the launch of 184 hour long (4 months) Office Assistant course. (MEP/00202) in March'22. ARSD College has signed MoUs with Netaji Subhas University of Technology (2021) and Shri Ramswaroop Memorial University, Barabanki (2022) to foster the research environment and provide more opportunities for students as well as faculty for enhancing their technical skills and research temperament. The MoU includes access to research instruments and other enabled facilities, exchange visits by faculty members for academic and research purposes, joint certified courses and joint collaboration in International/National Seminar / Workshops / Conferences.

MoUs was signed on 10 January 2022 between ARSD college and Sherlock Institutes of Forensic Science, India, to launch the following courses:
Fingerprint examination and Analysis (Duration 45 hours)
Document and Handwriting examination (Duration 45 hours)
Crime scene investigation (Duration 45 hours)
Graphology (Duration 45 hours)
Cyber forensic investigation (Duration 45 hours)
Forensic Odontology (Duration 45 hours)



Forensic Psychology (Duration 45 hours)

Placement Details

236

5.6%

Number of Companies visited for campus recruitment

113

Extension and Outreach Activities

The Principles of Equity and Inclusivity and the Spirit of Service are built into the very foundations of ARSD College. The college has, over the last few years, expanded the scope of its extension and ISR activities in a major way by nurturing in its stakeholders a sense of duty towards the less fortunate and the marginalized through activities that address issues like education, health, women empowerment, environment etc. The aim is to enable the students to empathize with and act upon the ground level socio-economic issues with the purpose of realizing the Sustainable Development Goals as identified by the United Nations.

Different College societies are actively engaged in outreach activities.

NSS unit of the college regularly organizes sensitization activities, Blood Donation Camps, Cleanliness Drive, disaster relief measures during national emergencies, apart from participating in the governmental initiatives such as SVEEP (Systematic Voters' Education and Electoral Participation Program), Swachta Pakhwara and the Swachh Bharat programme. NSS week wherein the events illustrating core values were organized and celebrated. NSS regularly organizes free health check-up camps in the adopted slum. During the testing COVID times, NSS wing of the college organized more than 200 webinars and workshops out of which 80 directly addressed the issues related to the COVID pandemic.

Enactus society is driven by the idea to bring about social change through social entrepreneurship by making underprivileged communities become self-sufficient. The Team has effectively achieved this goal by allowing the communities and partner NGOs to entirely take over and manage the businesses they were initially a beneficiary of. The creative projects, entrepreneurial ideas, collaborations with various NGOs and the events organized by the society ensure the fulfilment of the SDGs envisioned by the UN.

Women Development Cell believes in strengthening students by creating awareness about socio-political, cultural and legal perspectives through talks, gender sensitization workshops and symposiums. The Cell energizes students in their fight against cultures of oppression, silence, discrimination and alienation by becoming a forum for exchange of ideas. The Cell annually organizes Self-Defence Workshop in collaboration with Delhi Police.

Equal Opportunity Cell works to promote inclusivity on the campus by ensuring barrier-free access to all. It organizes sensitization programmes to raise awareness about discrimination and to inspire all stakeholders to fight for equal and fair representation.

Rangayan: The Dramatics Society stages social issues through its plays. By performing in social spaces, through its nukkad natak, Rangayan performances draw attention to governmental initiatives, pressing current concerns, systemic inequities.

Eco Club of the group works to raise awareness about environmental concerns, undertakes tree planting initiatives and runs other public-interest campaigns related to clean, green methods. The club celebrates Earth Day every year and also creates awareness against hazards of pollution.

North East Welfare Committee does an exemplary job in integrating the campus and also sensitizes the College body to the political, cultural and traditional aspects of the North East.

ARSD College has adopted 5 villages of South-West Delhi under the Unnat Bharat Abhiyan Programme. The issues sought to be addressed through this initiative are: awareness generation, education, health, sanitation, drinking water, solid waste management, affordable housing technology, use of renewable energy, etc.

Library Development

College Library functions as a resource centre for both printed and electronic resources. Apart from textbooks and other reading material, the library also has a large collection of reference sources, i.e., encyclopaedias, dictionaries, atlases, yearbooks, handbooks, among others. Library procured 713 books, 21 periodicals and 30 magazines in the year 2021-22, in various disciplines to fulfil the information needs of the students. Library has a vast collection of 117438 (Approx.) books. Library received gifted books from various organizations and faculty members etc.



Approximately 16332 users visited the Library including students as well as faculty members, Library recorded approx. 5851 books issued and 5394 books returned during the period 2021-22. It has an up-to-date Textbook Section in addition to a Students' Aid Fund section.

Online resources played an important role during the tough time of the Pandemic (COVID-19). During these times, Library staff remained connected with the faculty members and students through various mediums and met the information needs of all. Although, University of Delhi subscribes to a large number of e-resources and provides the access of the same to its affiliated colleges, the College Library has subscribed to the National Library and Information Service Infrastructure for Scholarly Content (NLIS) project of INFLIBNET. It provides remote access to e-resources. Library is also a member of the Developing Library Network (DELNET). It provides resources such as books, journals and others on loan to the Library, which is issued to faculty, staff and students. DELNET also provides articles of the journals on demand.

Library uses SOUL 3.0 Integrated Library Management Software to automate housekeeping operations. Library software also facilitates the OPAC (Online Public Access Catalogue) module, enabling users to access their required documents.

College Library is equipped with eighteen computers to access the E-resources of DULS resources, NLIS project, DELNET, and other open access resources. Two computers are dedicated for Online Public Access Catalogue (OPAC). The library has a sitting capacity of approx. 100 students and 30 faculty members.

Library each year provides practical training to the students of Delhi Library Association and IGNOU where they work in different sections of the library. Library staff attended online Conferences, workshops, Seminars and Lectures. The library staff are also engaged in writing research papers and published several papers during the period in Journals, National and International Conference.

Library has developed an 'Electronic Library' equipped with ten computers and other infrastructure which provide access to online resources subscribed by the college and University and other open access resources. Library has also developed a special section for the students with disabilities on the ground floor with 2 computers installed with JAWS software.

Library seeks to design and develop an Institutional Repository, in which the college library will maintain

a database of research publications of the faculty. Library intends to implement Radio Frequency Identification (RFID) technology to save the valuable time of the user. Library plans to expand its e-Library to about 20 more computers.

Faculty Strength

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Financial Allocation and Utilization

Funds allocated Rs. 60,12,67,840/-

Fund utilized Rs. 65,13,68,840/-

Other Significant Information

College participated in NIRF Ranking 2022 conducted by the Ministry of Education (MoE), Government of India, and secured 7th Rank amongst colleges of the country. The college is now among the best five colleges in the University of Delhi. The College's NIRF rankings over the last few years indicate its dedication towards the overall development of its stakeholders.

According to the India Today Ranking 2022, college secured. All India 10th rank among 1614 colleges in India. In the Commerce category, college was ranked 12th among 213 colleges in India, in the Arts category, college was ranked 10th Rank among 172 colleges in India and in the Science category it was ranked 17th among 187 colleges in India. Under Placement college was ranked 5th among 1614 colleges in India.

College won exemplary performers in Swachhta Action Plan (SAP) green campus initiative "One District One Green Champion" from Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, Government of India, in the year 2021.

Since the last few years, annual 'Green Audit' has been conducted in the college by experts in the field. The college campus has been declared an Eco-friendly campus due to its lush green open area, tree census, herbal garden, bamboo classrooms, proper waste disposal systems, rain water harvesting and paper recycling.

On the occasion of 64th Annual Flower Show organized by the University of Delhi on 4 March 2022, college was awarded the following prizes:

Gazania Flowers- 3rd Prize

Asiatic Lilly – 3rd Prize

Fern – 4th Prize

Pansy- 4th Prize

BHAGINI NIVEDITA COLLEGE



Brief History

Bhagini Nivedita College is a constituent college of the University of Delhi. It was established during the academic session of 1993 as a girls' college in the rural and semi-urban outskirts of South West Delhi. The college is named after Sister Nivedita, a disciple of Swami Vivekananda who dedicated her whole life to the education and welfare of women. Its campus is located adjacent to village Kair near Najafgarh in a clean and green environment surrounded by farms and trees. Starting with only B. A. (Pass) and B. A. (Hons.) Hindi in 1993, BNC has progressively added more courses. B. Com (Pass) was introduced in 1996-97. A variety of new application courses were also instituted. BNC became an art, commerce, and science college with the launching of the B.Sc. Physical Sciences course in 2007. The college now offers the following undergraduate programs:

1. B. A. Honors (Hindi)
2. B. A. Honors (History)
3. B. A. Honors (Political Science)
4. B.Sc. Honors (Home Science)
5. B.Sc. Honors (Physics)
6. B. A. Program
7. B. Com Program
8. B.Sc. Physical Science with Chemistry
9. B.Sc. Physical Science with Computer Science

Major Activities and Achievements

Teaching-Learning process in college was entirely online during the pandemic year 2021-22. After the

situation improved, University of Delhi resumed its classroom teaching. Every kind of help is provided to students to deal with difficult times. Most of the activities were conducted online before the college reopened. Various departments, societies, and cells of the college organized many competitions and

events throughout the session. Eco Club organized a Virtual Nature Walk in Aravalli Biodiversity Park and arranged several Committee also organized competitions and events throughout the session. Research Cell of college organized an International Conference entitled, "Vasudhev Kutumbkam-3: Entrepreneurship, Innovation, and Research for Environmental Sustainability and Planetary Health" held on 7 and 8 April 2022 in virtual mode. College was awarded Certificate of Appreciation for active participation in the National Intellectual Property Awareness Mission (NIPAM) launched by Government of India under the banner "Azadi ka Amrit Mahotsav."

Honours/Distinctions

Prof. Raj Bhardwaj, Principal (Officiating): 1. Participated in Panel Discussion in a Virtual Seminar organized by Lady Shri Ram College for Women on 'Education and Empowerment of Women in India: Role of the National Education Policy 2020' on 23 June 2022. 2. Participated in the UGC-Sponsored Short Term Course on Academic Leadership program for Academicians entitled "Implementation of National Education Policy 2020," organized by Centre for Professional Development in Higher Education (UGC-HRDC, University of Delhi), 7- 9 March 2022. 3. She was invited as the Chief Guest at the opening ceremony of the Hindi Pakhwada Program (14 August to 28 September 2021) organized by Central Sanskrit University, Uttarakhand.

Dr. Ansul Rao, Associate Prof., English Department, has been awarded with Ph.D. from the Department of English, Indira Gandhi University, Meerpur. The title of her thesis is "A Bionomical Study of Barbara Kingsolver's Writings."

Dr. Seema Gupta, Assistant Prof., Department of Mathematics, has been awarded a Ph.D. degree in mathematics on the topic "A Study of Mathematical



Programming Approaches to DEA Problems” from Devi Ahilya University, Indore in January 2021.

Students with Distinctions

Ms. Nitika, Ms. Swati, Ms. Divya Rani, Ms. Surabhi Juyal and Ms. Poonam Dhayani are college toppers

Publications

Rao, A. (2021). Keeping Things in Balance: Land and Cultural Memory in Barbara Kingsolver’s Animal Dreams. *Rock Pebbles*, XXV(IV): 65-71.

Rao, A. (2021). Gardens as nurturing spaces in the novels of Barbara Kingsolver. *Working Papers on Linguistics and Literature*, XV(NA): 80-89.

Dutta, A. (2021). Terrorism and India’s Foreign Policy. *NIU International Journal of Human Rights*, 8(111).

Singla, M. (2021). Bhartiya Sanskritik Mulyon ka Akhsay Kosh: Dasham Granth. *Bhasha Patrika*.

Rana, N. (2021). Bharat Mein Khetrawad. Published in *Shodh Sarita*. *Shodh Sarita*, 8(29): 88-91.

Mahalwala, R. (2021). Revisiting the Weak Form of Efficiency of Indian Stock Market during Covid-19 pandemic. *IOSR Journal of Economics and Finance*. 12(4): 16-22.

Gupta, S. (2021). Understanding self and cross-efficiencies and their relations in Data Envelopment Analysis. *Journal of Scientific Research*, Banaras Hindu University. 65(5).

Parmar, S. (2022). Bhartiya Naari ki Swatantrata Sangram mein Bhumika. *Rhashtra Dharma Magazine*.

Gupta, H., Gautam, N., Gautam, S.K., Singh R.G., Singh F. (2022). Semiconductor-to-metal transition in nanocomposites of wide bandgap oxide semiconductors. *Journal of Alloys and Compounds*. Vol 894.

Sheth, Y., Dharaskar, S., Chaudhary, V., Khalid, M., Walvekar, R. (2022). Prospects of titanium carbide-based MXene in heavy metal ion and radionuclide adsorption for wastewater remediation: A review. *Chemosphere*, NA (2022), NA.

Conferences Organized

Organized 3rd International Conference titled "वसुधैव कुटुम्बकम्- "3 Entrepreneurship, Research and Innovations for Environmental Sustainability and Planetary Health) on the occasion of World Health Day on 7 April 2022.

Seminar/Conference Presentations

Dr. Ansul Rao, Associate Prof., English Department, presented a research paper entitled, “Connecting Wor(l)ds: The Motif of Linguistic Diversity in Barbara Kingsolver’s Fiction,” at the 28th Film Congress organized by University of Vienna on “Linguistic, Literary, and Cultural Diversity in a Global Perspective” from 2021, July 19-21.

Dr. Vandana, Associate Prof., English Department, presented a research paper entitled, "Translating oral, originary, folk narrative: Mahasweta Devi's 'Chotti Munda and His Arrow'" on 5 March 2022 in the IACLALS Annual International Conference 2022 (online) on "Circulations, Mediations, Negotiations: New Perspectives on Translation from South Asia".

Dr. Seema Gupta, Assistant Prof., Department of Mathematics presented a paper entitled “Climate Change and India’s Vision: A Policy Overview” at International Conference on Climate Change-An Imminent Global Emergency (ICCCIGE)-2021 held from 16-18 December 2021 and organised by Department of Environmental Studies, Zakir Husain Delhi College, University of Delhi.

Dr. Alok Dutta, Department of Political Science, presented a paper entitled “South Korean Soft power Propaganda to India” in an international webinar organized by Jamilia Milia Islamia University on 2020, November 06-07.

Dr. Vishal Chaudhary presented a paper entitled, “State-of-the-art nanostructured gas detection strategies” at an inaugural lecture at “Nano e-talks version-2, part-1” held on 11 December 2021 organised by Maharaja Agrasen University, Solan, Himachal Pradesh, India.

Ms. Usha Rani presented a Joint paper entitled "Information Literacy among postgraduates engineering students of Osmania University, Hyderabad: A study" at the 67th ILA International Conference on 'Open Access Sources and Information Services during Post-Covid Times:



Challenges and Opportunities' held between 24 and 26 March 2022 at Dravidian Univ, Kuppam, Andhra Pradesh.

Placement Details

55

Extension and Outreach Activities

College organized an online webinar entitled "Women's Careers: Opportunities, Challenges, and Problems in the Post-Covid Era" on September 22, 2021. The speaker of the session was Dr. Ruchi Rayat, Dean-Outreach & Student Welfare Area (Chair).

Library Development

College library has a rich collection of 32500 books approximately. It has 44 journals and magazines, and 14 popular newspapers in Hindi and English. In

addition to this access to internet-based services is also available for library users. OPAC facility is available through lib sys software package. Nlist program of Inflibnet UGC provides access to 100 000e_books and 6000 e_journals which are highly rich in content. URKUND software facility is also available for plagiarism checks of scholars' publications to enhance the quality of research initiated by MHRD, INFLIBNET, and UGC.

Faculty Strength

75

Financial Allocation and Utilization

Funds allocated = Rs. 21,24,54,827.38/-

Funds utilised = Rs. 20,85,78,967.95/-

BHARATI COLLEGE



Brief history

Bharati College, a premier and prestigious college for women, which was established as a constituent college of University of Delhi by Delhi Administration on 20 September 1971 and named as Bharati Mahila College. College started functioning from the premises of a Government Senior Secondary School for Boys located on the Link Road in Karol Bagh. A modest number of two hundred and forty-one students and a team of thirteen teaching staff spread over six disciplines were involved. In 1998, the college started operating from its new location. Situated in an eco-friendly environment, it possesses 23 classrooms, 46 tutorial rooms, a seminar and conference room, a studio theatre and 3 Computer Labs with over 120 computers. The new building in the campus with 26 rooms, 2 labs and a staff room has been a welcome addition to the College.

Major Activities and Achievements

College celebrated its Golden Jubilee in a year-long programme on 'Utkarsh'. Several Faculty Development programmes (FDPs) for both the teaching and non-teaching staff have been organised. The much-awaited auditorium was inaugurated by the Honourable Chief Minister of Delhi Shri Arvind Kejriwal ji and the Vice Chancellor of University of Delhi, Prof. P C Joshi on the 9 July 2021. The auditorium has the capacity to seat five hundred people.

Five faculty members have been promoted to Prof. grade and thirty faculty members have been promoted to Associate Prof. from the level of Assistant Prof.



Honours/Distinctions

College was awarded with Institution of Happiness Prize by QS I Gauge and AASOCHAM, by the hard-work managed by Prof. Anupama Mahajan, from Department of Commerce and under the guidance of the Principal.

Nisha Tiwari from Department of English was awarded the Helsinki Prize for Best Essay, "Feminist Aesthetics of Discomfiture", by International Federation for Theatre Research (IFTR) in January 2022.

Students with Distinction

Shivanshi Awasthi of B. Com (Hons) VI Semester was the subject college topper.

Shagun Yadav of B. Com (Prog.) VI Semester was the subject college topper.

Srishti Sharma of B. A. (Prog.) VI Semester was the subject college topper.

Meenakshi Rawat of B.Sc. (Hons) Mathematics VI Semester was the subject college topper.

Sarita of B.A. (Hons) Sanskrit VI Semester was the subject college topper.

Publications

Bhutani, K. (2021). Covid-19: The Inflexion Point for E-Commerce. *Indian Journal of Economics and Business*. 20(2): 649-659.

Chetan, C. (2022). Review- Dalit Literature and Criticism by Raj Kumar. *South Asian Review*, 43(1-2): 162-164.

Chetan, C. (2021). Disinfectants: Use of Different Types of Sanitization Techniques in 18th and 19th Centuries Britain and India. *Substantia: An International Journal of History of Chemistry*. 5(2): 121-128.

Gupta, A. (2021). A note on the Generalized Nonlinear Vector Variational-like Inequality Problem. *Function Spaces*. Vol. 7.

Gupta, S. (2021). Empirical analysis of Capital, Funding Liquidity and Bank Lending in emerging market Economies: An application of system GMM approach. *Administrative Development 'A Journal of HIPA, Shimla'*. 8(Special Issue 1): 247-270.

Harikishni. (2021). Investigating consumers' adoption of m-Commerce in emerging economies. *Administrative development "A Journal of HIPA, Shimla"*. 8(Special Issue 1): 231-245.

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Niraj. (2021). *Bhumandaliya Sanskriti Vishvgram ya Sanskriti ka Dibba Band*. Kathakram. Pages 76-81.

Rajni. (2021). *Insolvency of Individual Corporate Gurantor: A Distant Dream to reach*. *The Management Accountant*. 57(2): 93-97.

Journals

The Research Post: An International Journal of Social Sciences and Humanities. Bi-annual Journal, 4(2): 166
Editor in Chief: Dr. Sudhir Kumar Suthar, Jawaharlal Nehru University and Editors: Prof. Rekha Sapra and Dr. Nandini C Sen from Bharati College
Arthavaan. Bi-annual journal. Editor: Dr. Roopa Johri

Patents Filed/Granted

Patent: Machine Learning Prediction Model and Intelligent System for Processing Computerized Images and Method Thereof. Patent Number: 2021106489

Patent: Intelligent System & Method for Radio Link Monitoring & Controlling in a Wireless Communication System using IOT Technology. Patent Number: 2021106500

Seminars Organized

Seminar entitled, 'Young India's New footprint-Prospects and Challenges' Dr. C Rama Rao, Director of Physical Education on 29 August 2021.

Seminar entitled, 'Research Analyst, Gateway to FINANCIAL Freedom' delivered by Dr. Jaison Philips on 12 March 2022.

Seminar entitled, 'Analysing social exclusion of Muslims in Britain: Experiences from the field' delivered by Ms. Sabah Khan, Assistant Prof., Ambedkar University on 4 February 2022.

Seminar entitled, 'Democracy and the Indian Republic, Political Science' delivered by Prof. Ujjwal Kumar Singh Prof., Department of Political Science, University of Delhi on 2 February 2022

Seminar entitled, 'Encountering the Ethnographic Field' delivered by Gayathri Sreedharan, Anthropologist on 28 February 2022.

Conferences Organized

Conference entitled, 'WOW: Women of Worth' 23 August 2021.

Conference entitled, 'Women Safety. Legal Provisions and Present Scenario' organized on 29 September 2021.



Conference entitled, 'The Idea of Fairness and Social Equity' organized on 8 September 2021.

Seminar/Conference Presentations

Prof. Anupama Mahajan presented a paper entitled, 'Role of Influencers in Buying Behaviour of Consumers' at the 4th International Conference: Summer Seminar in Marketing, SSIM 2021 (online), organised by Faculty of Management, University of Warsaw, Poland, 2021, June 15.

Dr. Nisha Tiwari presented a paper entitled, 'Personas and Popular Feminisms in Indian Women's Comedy during the Pandemic at International Federation for Theatre Research (IFTR) 2021 Virtual Conference held at Galway in the month of July 2021.

Dr. Rajni presented a paper entitled, 'Impact of Digitalization on customer lifestyle' at 9th National conference on Digital Transformation: Progressive Business Management, Entrepreneurship and Social Security" organized by Banarsidas Chandiwala Institute of Professional Studies, Dwarka on 2021, August 27-28.

Dr. Rajni presented a paper entitled, 'Cryptocurrency the future of India' in 3rd International Conference on Advances in Information Communication Technology & Computing (AICTC) organized by BMK Global Foundation in association with CSI, Udaipur, Chapter, Springer Conference on 2021, December 20-21.

Dr. Shivani Jha presented a paper entitled, 'Should men be better? Should the world be changed? Deliberating the trappings of the American dream and the dispossessed vis a vis my Antonia and the grapes of wrath' at an International Conference on "Darkness in Paradise: American Declarations, Disillusions, and Disasters" organized by the University of Rzeszów, Poland held during 2021, December 09-11.

Other Inter-Institutional Collaboration

College collaborated with Centre for Global Studies, University of Delhi (formerly Developing Countries

Research Centre - DCRC) in Samiksha- UP Election Survey Project.

Placement Details

14

9.21%

Number of Companies visited for campus recruitment

17

Nale of these include - 1. Mindforce Research 2. Wipro (WILP 22) 3. Next IAS 4. Decathlon 5. Uolo 6. Apli.ai 7. Gyandhan 8. Progressive Minds (PPO) 9. Atmoz 10. TopHire 11. P B Financial Ltd 12. IMS Pro School 13. Bloombrain 14. Nerdy Turtlez 15. Acadecraft 16. Zucol 17. Kit19.

Extension and Outreach Activities

Students volunteered their services for the residents of Children Home for Girls, DCCW 'Nirmal Chhaya' and 'Bal Niketan: Balika Grah' (After Care Home for Women), and 'Ayudham Society' for old age people. For ensuring mental well-being of students, a Happiness Club- "Ananda" was initiated. This club conducted various activities such as flash mobs, open house discussions, sharing personal experiences, getting answers to unanswered questions, dance sessions, games, activities, sharing stories, nukkad natak, joke sessions to name a few. College NSS unit organised Plantation Drive, Cleanliness Drive and Plastic Collection Event in Janakpuri locality in the month of October. NSS unit organized a Water Conservation Campaign on 24 October 2021 and Energy Conservation Campaign on 25 October 2021.

Library Development

College has become member of DELNET

Faculty Strength

119

Financial Allocation and Utilization

Funds Sanctioned = Rs. 23,58,75,000/-

Funds utilized = Rs. 36,94,31,254/-

BHASKARACHARYA COLLEGE OF APPLIED SCIENCES





Brief History

Bhaskaracharya College of Applied Sciences, named after the great mathematician of 12th century was functional from October, 1995. This is a constituent college of University of Delhi and is fully supported and funded by the Government of NCT, Delhi. The sprawling campus of the college spans about eight acres of land with exquisite landscaping and captivating architecture. The college has well-equipped state of the art well ventilated laboratories, extensive library facility, classrooms with LCD projectors, auditorium, open air theatre and a spacious sports ground. The campus of the college is Wi-Fi enabled. Students enrolled are motivated to excel in academics and extracurricular activities and attain University positions in various disciplines. Besides this, in order to inculcate research aptitude, skills and synergy among students and faculties, various research and innovation projects are being carried out in the college. The college is a member of the Star College Scheme of the Department of Biotechnology, Government of India. In this new session more Departments have come under this status. Despite global pandemic, the college has successfully completed various online academic activities such as workshops, lectures, industrial visits, research projects and outreach programs. College motivates students to get involved in outreach programs and work for the upliftment of weaker sections. The college has a dedicated NSS cell which organizes various activities like blood donation camps, medical check-up camps, awareness programs and drives. College organized various inter Departmental, inter college and Inter- University sports activities this year to encourage the students to participate in inter-college and open tournaments. This year we have added an open air gym and a multi utility AstroTurf facility. The college also has a well-established and active Training and Placement Cell which works in tandem with Central Placement Cell of University of Delhi for internship as well as placement of deserving students. The dynamic and dedicated faculty of the College is not only involved in teaching but also guiding Ph.D. students of various renowned universities. The faculty also proved their mettle during the Coronavirus pandemic! They

worked closely with the students to finish the syllabus and mentored them in these difficult times.

Major Activities and Achievements

College achieved NIRF college ranking 32 for the year 2021 and obtained India Today ranking '60'. Eight Memorandum of Understanding (MOUs) were signed with various organizations. Ten short-term courses were conducted by the college to benefit our students. Two major research projects are in progress with ICMR and DST respectively. Seventeen students are currently registered with various faculty members for Ph.D. program. Vidya Vistar Scheme was formally inaugurated by The Honourable Vice Chancellor, University of Delhi on August 14, 2021 where the college collaborated with Indira Gandhi Government College (IGGC) Tezu, and Government College (GC) Bomdila, of Arunachal Pradesh State. A virtual tour of the Department of Chemistry, Botany, Physics, Zoology and Mathematics was organized by the college in between September 14-20, 2021, in which faculty members of IGGC, Tezu and the college participated. Our faculty showcased the laboratory equipment, performed experiments and discussed availability of study materials and chemicals as well as setting up of respective Laboratory. College organised a workshop on 'Know Your Rivers' in association with Bhartiya Shikshan Mandal on January 8, 2022. The major objective of this workshop was to know the facts about the rivers in the neighbourhood and a campaign for crowdsourcing data about rivers. Dr. Babita Singh Bhartiya Shikshan Mandal; Mr. Aakash Upadhyay were resource persons.

Honours/Distinctions

Dr. Uma Dhawan was awarded with INSA Teachers Award 2021 by Indian National Science Academy. Prof. Uma Chaudhry was awarded with the Best Teacher Award by the Department of Higher Education, Govt. of NCT, Delhi, for the academic year 2020-21.

Students with Distinctions

Ms. Ishani Sharma was awarded the University medal for securing first position in B.Sc.(H) Microbiology.



Ms. Smriti Anand was awarded the University medal for securing first position in B.Sc.(H) Polymer Science. Mr. Sunesh from B.Sc. (Hons) Chemistry secured 1st rank in the college.

Ms. Swati Rai from B.Sc. (Hons) Computer Science secured 1st rank in the college.

Mr. Nikhil Kumar Khatri from B.Sc. (Hons) Botany secured 1st rank in the college.

Publications

Arora, A. K., Sahgal, V., Bharadvaja, A., Baluja, K. L. (2021). Positron-impact scattering off 1-1 C₂H₂F₂ from 0.1eV to 4 keV. *Physical Review A*. 104(2): 22816.

Chugh, B., Thakur, S., Pani, B., Murmu, M., Banerjee, P., Al-Mohaimed A.M., Ebenso, E.E., Singh M., Singh J., Singh A.K.. (2021). Investigation of Phenol-formaldehyde resins as corrosion impeding agent in acid solution. *Journal of Molecular Liquids*. 330: 115649.

Goswami, K., Arora, A. K., Bharadvaja, A., Baluja, K. L.. (2021). Electron impact partial ionization cross sections of methyl alcohol up to 5 keV using the mass spectrometry data. *European Physical Journal D*. 75(228): 108.

Kumar P., Dua, S., Kaur, R., Kumar M., Bhatt, G. (2022). A review on advancements in carbon quantum dots and their application in photovoltaics. *RSC advance*, 12(8): 4714-4759.

Kushwaha, C.S., Singh V. K., Shukla, S. K. (2021). Electrochemically triggered sensing and recovery of mercury over sodium alginate grafted polyaniline. *New Journal of Chemistry*. 45(24): 10626-10635.

Nahak, B.K., Preetam, S., Sharma D., Shukla, S. K., Syväjärvia, M., Toncuac, D.C., Tiwari, A. (2022). Advancements in net-zero pertinency of lignocellulosic biomass for climate neutral energy production. *Renewable and Sustainable Energy Reviews*, 161: 112393.

Singh P., Kushwaha, C. S., Singh V. K., Dubey, G. C., Shukla, S. K. (2021). Chemi-resistive sensing of volatile ammonia over zinc oxide encapsulated polypyrrole based nanocomposite. *Sensors and Actuators B: Chemical*. 342(10): 130042.

Singh B., Pani, B., Gupta, D. (2021). Multiple phenyl ring appended Re-based complexes for strong light absorption and DNA binding. *Dalton Trans.*, 50(43): 15558-15566.

Singh A.K., Chugh, B., Singh M., Thakur, S., Pani, B., Guo, L., Kaya, S., Serdaroglu, G. (2021). Hydroxy phenyl hydrazides and their role as corrosion impeding agent: A detail experimental and theoretical study. *Journal of Molecular Liquids*. 330: 115605.

Verma, P., Bansala, T., Chauhan, S. S., Kumar D., Devci, S., Kumar S. (2021). Electromagnetic interference shielding performance of carbon nanostructure reinforced, 3D printed polymer composites. *Journal of Materials Science*. 56(2): 11769-11788.

Research Projects

Department of Science and Technology (DST) sponsored project entitled, 'ARMEd: Antimicrobial resistance mitigation and eradication using blended learning approach - social media, outreach and awareness activities' and sanctioned amount of 17.91 lakhs for duration of 2020-2022.

Indian Council of Medical Research (ICMR) sponsored project and entitled, 'Exploring moonlight enzyme, glutamate racemase, of *Neisseria gonorrhoeae* as a target for anti-gonococcal drug discovery' and sanctioned amount of 22.60 lakhs for duration of 2019-2022.

Seminars Organized

Organised a two-day National Seminar entitled, 'Women Empowerment: Challenges Need and Issues' which was sponsored by Indian Council of Social Science Research and held during 7 and 8 March 2022. The seminar emphasized that building theoretical frameworks alone cannot fulfil the objective of women empowerment.

Organized an International webinar entitled, 'Breast Cancer and Cervix Cancer' in association with RAGE, Dance Club of the college on the occasion of International Women's Day on 8 March 2022.

Organized an hour long International webinar entitled, 'Career Opportunities in Financial Engineering' under the aegis of DBT Star College - Scheme II and IQAC of the college and in joint collaboration with Career Counselling Cell on 30 September 2021. Resource person for the webinar was Ms Fiona Taft, Senior Associate Director along



with her team, HaaS School of Business, University of California, Berkeley, USA.

Organized an International webinar entitled, 'Journey from Biology to Machine Learning' delivered by Dr. Ashish Jain (an Alumnus of the college) who is a Data Scientist at Salesforce, Cambridge, M.A. on 6 September 2021.

Organized an International seminar entitled, 'Earth and Climate Change Impacts: Can Carbon Capture, Utilization, and Sequestration (CCUS) Address the Issues' by Phytomics- The Botanical society of the college on the occasion of Earth Day on 22 April 2021.

Dr. Nimisha Tripathi, Senior Lecturer at University of Greenwich, the United Kingdom delivered her talk.

Seminar/Conference Presentations

Dr. Amit Kumar Department of Electronics, presented an e-poster entitled, 'Search for natural carbon nanotubes in GUJCOST-DST' during the sponsored two days Virtual National Conference on 'Advances and Innovations in Natural Product Research' which was organized by B. Pharmacy College, Rampura on 2022, February 18-19.

Dr. Amit Kumar Department of Electronics, presented a paper entitled, 'Characterizing co-axial CNT-FET by varying gate dielectric' in an International E-Conference on 'Advances in Material Science, Bio-Science and Information Technology (ICAMSBSIT-2022)' organized by Faculty of Science in association with Internal Quality Assurance Cell held on 2022, February 26.

Dr. Julie Thakur, Department of Botany, presented a paper entitled, 'Genetic diversity assessment using Start Codon Targeted (SCoT) and Inter Simple Sequence Repeat (ISSR) markers in *Crepidium acuminatum* (D. Don) Szlach.- a threatened taxon' in a National Seminar on Plant Taxonomy and Traditional Knowledge in the Himalayas and North-East India & Annual Conference of East Himalayan Society for Spermatophyte Taxonomy (EHHST), jointly organized by the Department of Botany, Rajiv Gandhi University East Himalayan Society for Spermatophyte Taxonomy and Botanical Survey of India, on 2022, February 21-22.

Dr. Laljee Ram Meena, Department of Zoology, participated and presented a research paper entitled, 'Soil Contamination: A Physico-chemical Analysis Nearby Rivers at Balotra and Pali Western Rajasthan' in an international e-Conference on

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current innovations in sciences (CIS-2022) organized by the Faculty of Science & IQAC, Late Pushpadevi Patil Arts and Science College Risod, Maharashtra on 2022, February 21.

Dr. Meetu Luthra, Department of Physics, presented a paper entitled, 'An Analysis of effective assessment and evaluation techniques at undergraduate level' in the 9th Annual Convention organized by Indian Council of Physics Teachers, Regional Council Delhi & Haryana on 2021, October 09-10.

Mr. Yagyadatta Goswami, Department of Instrumentation, presented a paper entitled, 'A Novel PID- AW based MPPT Technique for SPV System' in the 4th IEEE International Conference on Recent Developments in Control Automation & Power Engineering organized by Amity University, Noida during 2021, October 07-08. His paper was awarded with Best Paper Award.

Dr. S. K. Shukla, Department of Polymer Science, presented a paper entitled, 'Potentiometric detection of pesticides on biocomposite electrode' at the National Seminar on 'Applied Research' held at Sharda University, Greater Noida from 2021, October 21-22.

Dr. Susmita Dey Sadhu, Department of Polymer Science, presented a paper entitled, 'Development and Properties of Guava Based Nano-Edible Coating for Fresh Fruit Application' in the 'Asian Polymer Association Conference 2021' held on 2021, August 27-28.

Dr. Gunjan Sirohi, Department of Microbiology, presented a paper entitled, "High-throughput sequencing of small RNAs and analysis of differentially expressed microRNAs associated with Brassino steroid signalling in *Arabidopsis thaliana*" in an International Symposium on 'Advances in Plant Biotechnology and Genome Editing' and the 42nd Meeting of Plant Tissue Culture Association (India) organized by ICAR-Indian Institute of Agricultural Biotechnology, Ranchi, India from 2021, April 08-10.

Piyush R. Maharana, a student of Department of Physics, presented a paper entitled 'Structure and Kinematics of the Milky Way Galaxy using atomic Hydrogen' in an International Conference on 'Recent Advances in Fundamental and Applied Sciences' organized by Lovely Faculty of Technology and



Sciences, Lovely Professional University, Punjab held on 2021, June 25-26.

National/International MoUs Signed

MoU signed with Shiksha Sanskriti Uthan Nyas, for Vedic Maths for two years, signed on 10 February 2022.

MoU signed with Jaagruti Waste paper recycling Industries, an organisation for recycling of waste papers on 24 January 2022.

MoU signed with LAKSHYA - A Society for Social and Environmental Development for two years on 3 January 2022.

MoU signed with M/s SMS Water Grace BMW Pvt. Ltd. – a Government of N.C.T. of Delhi empanelled company for waste management in 1 January 2022 for a period of two years and a well-defined procedure was established in the college to handle the waste generated.

MoU signed with Vision Divyang Foundation, a non-governmental organization working for the benefit of divyangjan, on 23 November 2021.

MoU signed with SMITA Research Lab, a Centre of Excellence on Smart Textile, Indian Institute of Technology, New Delhi under high value research project of National importance viz; High Performance Composite Fibers funded by the Ministry of Textiles (Government of India) under prestigious National Technical Textile Mission (NTTM) on 12 August 2021. The duration for MoU is for 3 years.

MoU signed with National Institute for Immunology, a DBT recognised Institute for Science SETU programme for a period of three years. The MoU was signed on 15 September 2021.

MoU signed with Foundation of Innovative Packaging and Sustainability, for a period of one year on 30 June 2021.

Other Inter-Institutional Collaboration

'Youth and Climate Change', a short term course organised in association with LAKSHYA - A Society for Social and Environmental Development during 3 to 17 October 2021. An online Session was also organized on 22 February 2022 on 'Gender Lens- A Perspective of Gender Equity' and Ms. Nandini Shrivastava was the resource person for the event.

Organized workshop on 'Making of Herbal Colours' in association with the team of LAKSHYA on 16 March 2022.

Organized an International webinar on 'Plastic Brand Audit' in association with LAKSHYA on 6 March 2022.

Ms. Ashpreet Kaur, Senior Research Scholar in the

Interdisciplinary Ecology University of Florida, USA was the speaker of the webinar.

Organized an outreach awareness campaign on 'Plastic litter free Delhi' to encourage 4 R 's' - 'Reduce, Reuse, Recycle & Recover to make circular economy possible in association with LAKSHYA in the college campus and at DDA-Park, Sector -2, Dwarka, New Delhi on 14 February 2022.

Sukshmjeev Society organized National webinar on 'Impact of Climate Change on Biodiversity' on the theme 'Loss of Biodiversity (Microbial Biodiversity Loss)' by Dr. Hishmi Jamil Husain, Head of Biodiversity, Corporate Sustainability, Tata Steel Ltd in collaboration with LAKSHYA on 16 March 2022.

Collaboration with Vision Divyang Foundation

Organised a counselling session on the theme of 'Mental Health and Wellness' in collaboration with Vision Divyang Foundation on 5 February 2022 in an online mode. Mr. Mukesh K. Gupta, Chairperson, Vision Divyang Foundation, interacted with the students in a very congenial and informal manner and gave them lifestyle tips for a stress-free living in this program.

Collaboration with Foundation of innovative packaging and sustainability

Coordinated short term course entitled "Innovative Packaging and Sustainability from 26 July 2021 to 28 August 2021 in collaboration with Foundation of Innovative Packaging and Sustainability using online platform.

Placement Details

Organised an Internship cum Placement activity for Sarabhai IT on 2 February 2022.

Number of enrolled students in Sarabhai IT - 91
Number of enrolled students in Coriolis Technologies - 53

Out of total 144 students who were selected in campus placement, six students were selected in Sarabhai IT for Internship cum placement. In all 4% of students were placed.

Number of Companies visited for campus recruitment

2

Extension and Outreach Activities

Organized a workshop cum an outreach activity on 'Fostering Scientific Temperament: Vision 2021-22' for rural school students of Sant Kirpal Model Senior



Secondary School, Delhi by Phytomics- The Botanical society of the college on 17 December 2021.

An outreach activity program was organized under 'Science Adda' for the school students to showcase the highlights of the different experiments on 17 December 2021.

A social outreach initiative 'Environmental Project and Awareness Program' was initiated by Sukshmjeev society of the department of microbiology. The first part involved Group presentations by students and discussion on Environmental Problems and their Management from 20 to 27 November 2021.

Organized an outreach awareness campaign on 'Plastic litter free Delhi' to encourage 4Rs-Reduce, Reuse, Recycle & Recover to make circular economy possible by Eco club in association with Lakshya-A Society for Social and Environmental Development in the college campus and at DDA-Park, Sector -2, Dwarka, New Delhi on 14 February 2022.

Organized outreach Awareness Campaign on 'Beat Single Use Plastic Pollution' by Eco club at DDA-Park, Sector -2, Dwarka, New Delhi on 9 September 2021.

Library Development

Apart from the regular subscription to some newspapers & magazines, this year. Library has renewed its subscription to N-LIST (National Library and Information Services Infrastructure for Scholarly Contents) programme of INFLIBNET. The AMC of RFID System has also been awarded during this academic year. A two-day book exhibition was organised on 9 and 10 March 2022. Library has a collection of 27068 volumes of books including reference books, 336 bound volumes of journals and 1231 CDs/DVDs. This has provided the facility to access a large number of e-resources to the students and staff throughout the year 24x7.

Faculty Strength

91

Financial Allocation and Utilization

COLLEGE OF ART

Brief History

College of Art is an institution established in 1942 for advanced training in Visual Art (Creative and Applied) leading to the Bachelor of Fine Art Degree of the University of Delhi, further providing advance

Amount Allocated - Rs. 253000751.86/-

Amount Utilized - Rs. 18379621.25/-

Other Significant Information

Launch of 'BRAHMA' App: The college indigenously built two Applications- BRAHMA (BCAS Resource Automation, Handling and Management Application) and BEAMS (BCAS Event Automation & Management System). BRAHMA and BEAMS are Web Applications powered by Google. BRAHMA enables the college to manage various information resources generated in college such as Student Data, Attendance, Internal Assessment, Time Table, Students Feedback, Budget, etc. BEAMS is a dedicated application to manage and automate various events related processes such as participants registration, communication, certificate generation, feedback, etc. Through these apps teachers and admin can access and manage various college and individual data conveniently using a desktop, laptop, or phone. This app also enables the college to maintain a central database and also make it accessible anytime and anywhere in a secured manner as only authorised persons can access the data. These apps are conceptualised and built by the Digitization & Automation Committee of the college and are free of cost. On the occasion of the 75th year of Independence Day, Prof. P.C. Joshi, the Hon'ble Vice-Chancellor of University of Delhi launched the BRAHMA App.

Environment, Green and Energy Audit of the college has been completed successfully in December 2021. Students are engaged in various research projects by the faculty under DBT star college Scheme.



the Government of National Capital Territory of Delhi.

The objective of the syllabus/teaching programmes in the College is to achieve an overall refinement of the student perception not confined to the skills of the profession alone but also to create the kind of intellect as well as emotional cultivation to arrive at a level of composite creativity and thought. It aims to prepare the students for creative and applied responsibilities in the world of art and design. In its span of existence of nearly 67 years of the College has gradually grown to ensure an exalted position in the teaching of fine art in the country and comparable to any other art institution in the World. In future proposals, an unsurpassed range of patronage is envisaged to orient our teaching programmes to bond relationship with Industry, Commerce and Professionals including NGOs. This is in addition to the already existing extensive student research development projects, illustrated lectures/demonstrations by invited guests, workshops, educational study tours etc. in all the departments to create a catalyst for a richly rewarding learning experience and the future successes of the students.

The Faculty are practicing artists - painters, sculptors and graphic designers of national, international repute, and also a selected group of visiting Faculty who enrich the teaching programmes with their expertise, thus providing the students with the opportunity of discussion and interaction with eminent and contemporary artists, designers and entrepreneurs.

Major Activities and Achievements

College organized a 'Painting Competition' in the Department of Painting for BFA 2nd year students in

response to the circular received from DTTE vide F. No. 75(7)/DTTE/PLG/VIP/2017-18/033422690/1048 dated 11/01/2022. Dr. Rimsy Chopra was invited to participate and contribute in the national workshop on "Review of learning outcomes-Visual Art & Performing art in view of NEP2020" organized by NCERT from 7 to 9 March 2022. Department was also invited for Judging an online event entitled, 'Word Design Day 2021' which was organized by the Design Innovation Centre of Faculty of Visual Arts at Banaras Hindu University, Varanasi.

Honours/Distinctions

Department of Applied Art awarded with certificate for exceptional contribution as a Primary Evaluator in TOYCATHON 2021 by Ministry of Education, Ministry of Information and Broadcasting, Ministry of MSME.

Students with distinction

Bachelor of Fine Art - 82 students got distinction
Master of Fine Art -15 students got distinction.

Publications

06

Seminars Organized

03

Conferences Organized

08

Seminar/Conference Presentations

10

Other Inter-Institutional Collaboration:01



Placement Details

Placement Details: 57

Library Development

Total budget allocated to library: Rs. 4 Lac p.a.

Journals subscribed to: 16

Number of faculty

21

Financial Allocation and Utilization

Grant sanctioned in Rs. 11,14,00,000/-

Grant utilized in Rs. 9,57,84,498 /-

Number of Companies visited for campus recruitment: 06

Number of repeat recruiters: 03

COLLEGE OF NURSING, ARMY HOSPITAL (R&R)

Major Activities

In April, 2021, WHO Day celebration: Poster making competition was held on occasion of WHO day among students on the theme “Building a fairer, healthier world for everyone”.

In June 2021, Nutrifest “Swad e lazeez” was organized by the first year students. The students prepared various therapeutic diets i.e. Low residue diet, High fiber diet, Renal & Low sodium diet, High calorie & High protein diet, moderate low fat diet and liquid diet.

In August 2021, Independence Day on 15 August 2021 was celebrated at Nursing Cadets, Mess with interhouse patriotic song competition, English Hindi Essay, Poem and Story writing competition followed by National Anthem.

October 2021 saw Twenty-nine graduates of batch no. 4 commissioned into Military Nursing Service on successful completion of their 04 years B.Sc. (Hons) Nursing Course. Twenty-one students for I Year B.Sc. (H) Nsg program 2021-2024 were inducted.

In March 2022, International Women’s Day was celebrated from 08-10 March 2022. Health education on Prenatal care, postnatal care and breast feeding was conducted in Gynae wards under supervision of

Maj Sunita Devi. Post competition on “Women empowerment” was organized. Maj Gen Smita Devrani, Addl DGMNS inaugurated the event and distributed the prizes to the winners after addressing the MNS Officers and the Nursing Cadets. In March 2022, Lamp Lighting ceremony of Batch no 08, I year B.Sc. (H) nursing students was organized and Thirty students took Nurses pledge on the said occasion.

In March 2022, “Anwasha-College Day” was celebrated with various cultural events on 11 Mar 2022 with Mrs. Usha Jindal, First Lady Army Hospital (Research & Referral) as Chief Guest and Maj Gen Smita Devrani, Addl DGMNS as Guest of Honour. College released the sixth edition of college magazine “Tarangini” during the occasion.

Students of this college participated in different online intra and inter-college Students Nurses Association competitions and brought laurels to the college.

Honours/Distinctions

National Level – Organized by TNAI
N/Cadet Aastha Negi, N/Cadet Mumtaz Banu, N/Cadet Somya Sahoo and N/Cadet Neha from IV yr B.Sc. (H) Nsg won the first prize for scientific paper presentation at National level. N/Cadet Garima Kapoor of IV Yr. B.Sc. (H) Nsg won the Third prize in e Poster making at National level organized by TNAI,



Delhi. N/Cadet Arshpreet Kaur won consolation for a quiz at National level.

At the State Level, N/Cadet Neha IV Yr. B.Sc. (H) NSG students won the second prize in concept mapping. In MTNL PERFECT HEALTH MELA (Inter college SNA Competitions), N/Cadet Nandini Singh won first prize in Yoga Competition. N/Cadet Mercy KP got second prize in western solo song competition. N/Cadet Mumtaz Banu and N/Cadet Adheenajoshi participated in folk song. In addition to these, N/Cadet Aastha and N/Cadet Vaishnavi Singh bagged second prize in English debate competition. The College bagged second prize in western group dance, third prize in folk group dance and consolation prize in Fashion Show. N/Cadet Divyanshi and N/Cadet Arshpreet Kaur bagged first and second prize respectively in Photography competition.

Students with Distinctions

In Semester -I, N/Cadet Akanksha Tiwari got first rank in Second Semester University examination with 79.1% in aggregate. In Semester IV, N/Cadet Biji MR got 2nd position in the University in Third Semester of Delhi University examination with 79.6%. In Semester VI, N/Cadet Arshpreet secured second position in the University in Sixth Semester Delhi University examination with 80.8% marks. N/Cadet Priyamvada – 6th University position in Sixth semester Delhi University examination with 78.11% marks in aggregate. N/Cadet Mahak Kamboj got 9th University position in Sixth semester Delhi University examination with 77.71% marks in aggregate. In Semester VIII, N/Cadet Bhawna Subha got 3rd University position in Eight Semester Delhi University examination with 80.38% marks in aggregate. In August 2021, first year, Semester II, N/Cadet Akanksha Tiwari stood first in the University in Second semester examination with 79.8% in aggregate. N/Cadet Harsha Saini got second rank in the University in Second semester University examination with 79.2% in aggregate. N/Cadet Gungun got 4th University rank in Second semester University examination with 78.8% in aggregate. N/Cadet Muskan Sharma secured 5th University rank in Second semester University examination with 78.5% in aggregate. N/Cadet Neha Phogat got 6th University rank in Second semester University examination with 77.9% in aggregate. In Second Year, Semester III, N/Cadet Akanksha Tiwari and N/Cadet Muskan Sharma secured 3rd rank in Third semester university examination with

79.75% marks in aggregate. In third Year, Semester V, N/Cadet Biji MR was ranked second in Fifth semester Delhi University examination with 83.0% marks in aggregate. Fourth Year, Semester VII, N/Cadet Arshpreet Kaur secured third rank in the university in Seventh semester Delhi University examination with 83.75% marks in aggregate.

Publications

Maj Jiji Rajeev published article titled “Is there a difference in knowledge regarding child sexual abuse among children of rural and urban community” in Global Journal of Research Analysis, Vol. 10, issue 7 (2021) ISSN – 2277-8160

Maj Sunita Devi published article “Are the primigravida women prepared for labor” in Global Journal of Research Analysis, Vol. 10, issue 7 (2021) ISSN – 2277-8160.

Research project

In Orthopedic Nursing, A comparative study to assess the efficacy of post operative dressings in prevention of early surgical site complication and facilitation of early mobilization after orthopaedic surgery of Hip and knee in a tertiary care orthopedic center under the guidance of Lt. Col Mahalakshmi N.

In Critical Care Nursing, a study to assess the effectiveness of training program on improving the knowledge in providing cardio pulmonary resuscitation among second year nursing students in a quaternary care hospital, Delhi Cantt, with Maj Sreedevi c. as the guide.

Cardiothoracic Nursing, A study to assess the effect of selective planned pre-operative teaching in post operative phase of patients undergoing open heart surgery in quaternary care center in Delhi Cantt. Guided by Maj Sreedevi c

Burns and Recon Nursing, A retrospective to determine the factors associated with AKI among burns patients admitted in selected multispecialty hospital in New Delhi, with Maj Chandrakala Bisht as the guide.

In Oncology Nursing, a study to assess the quality of life of patients living with intestinal ostomy in a quaternary care hospital in New Delhi. Lt. Col Mahalakshmi N was the guide.

In Hematology Nursing, A descriptive study to assess the effectiveness of STP regarding care of neutropenic patients during induction phase among patients' perceivers in an apex hematology center in



selected quaternary care center New Delhi. Guided by Maj Anita Dhauni.

Research projects undertaken by Undergraduate students under the guidance of faculty

S.No	Topic	Members	Guide	Funding Agency
1.	A descriptive study to assess the knowledge of side effects and management of radiation therapy among patients receiving radiation therapy in selected quaternary care institution in Delhi	N/Cadet Garima N/Cadet Sruti N/Cadet Sonu N/Cadet Harshita Verma N/Cadet Mumtaz	Lt. Col Sreekala B and Maj Porselvi D	Self funded by students as study was part of curriculum
2.	A study to assess the knowledge regarding childbirth preparation during labor among primigravidae in a selected hospital of Delhi	N/Cadet Somya Sahoo N/Cadet Priyanshi N/Cadet Alka N/Cadet Vaishnavi N/Cadet Aastha	Lt. Col NisaGopidas and Maj Sunita Devi	
3.	A descriptive study to assess knowledge and attitude regarding colostrum feeding among primigravida mothers in a selected rural community of New Delhi	N/Cadet Ishika Rawat N/Cadet Neha N/Cadet Priyamvada N/Cadet Harshita Dharamwal N/Cadet Varsha	Lt. Col Sunita and Maj Merin Uthup	
4.	A descriptive study to assess knowledge of mothers of under 5 children regarding immunization in selected quaternary hospital of Delhi and develop information booklet regarding the same.	N/Cadet Mahak Kamboj N/Cadet Priya Joshi N/Cadet Kajal Budhwar N/Cadet Nandini N/C Rohini	Lt. Col Ramhlunmawi and Lt. Col Meena KK	Self funded by students as study was part of curriculum
5.	A study to assess the knowledge regarding adverse cardiac events and its initial expected management among the patients and caretakers attending medical OPD in a selected quaternary hospital in Delhi	N/C Anjali N/C Aarti N/C Shweta N/C Arshpreet Kaur N/C Anku	Lt. Col. Rajeena Enoch	

Seminar Organized

A seminar on “Hospital Acquired Infections” was organized on 6 December 2021 with Lt. Col. Pooja Mahajan, Associate Prof., Dept. of Microbiology, AHRR as the moderator.

Conferences Organized

Conference titled “CNE on intensive care stressors and resilience among Nurses” was organized on 17-18 July 2021 with Head Quarter Ministry of Defence (Army) as the funding agency.



Breast Feeding Workshop was conducted from 01-07 August 2021.

BLS/ACLS workshop on 27- 28 October 2021.

A conference on Stress Management techniques on 02-04 November 2021.

An NRP Workshop held on 15-16 November 2021.

A conference on “Hands on Skill in OBG Nursing” was held on 10-17 February 2022

Placement Details

29 students of fourth batch of B.Sc. (Hons.) Nursing course commissioned as Lieutenant in Military Nursing Service in October 2021.

Extension and Outreach Activities

In Community Health Nursing, Nukkad Natak on Antenatal care was performed in Urban Health Centre Palam. A School health programme was conducted by III year B.Sc. (Hons.) Nursing Cadets in Dakshin Delhi Nagar Nigam Prathmik Vidyalaya in south Delhi in March 2022. In addition, an awareness campaign on “Immunization, family planning and Antenatal care” was conducted by III year B.Sc. (Hons.) Nursing Cadets in Urban Health Centre Palam in March 2022.

In the field of Mental Health Nursing, World Mental Day 2021 was celebrated in Psychology Department in Base Hospital Delhi Cantt. on 10 Oct. 2022. As a part of the celebration a role play on substance abuse was performed by III yr. B.Sc. (H.) Nsg. students. A role play on Anger management and exam stress among preschool children was performed by III-year B.Sc. (H.) Nsg students for the parents in Nalanda Hall BHDC in January 2022

Obstetrical & Gynecological Nursing, Mass Health program on antenatal care, postnatal care and NBB care was conducted by IV-year B.Sc. (H) Nursing students in OBG ward and OPD of Base Hospital Delhi can't and Army hospital (R & R) New Delhi in March 2021.

On Child Health Nursing, On the occasion of Breast feeding week a health education on Breast feeding was organized by III year and IV year B.Sc. (H) Nursing students and KMC procedure was taught to the mothers admitted in NICU and the OBG Wards.

Library Development

Total of 5050 Books in College of Nursing and a total of 10100 books in Army Hospital (R & R) library.

Faculty Strength

25

Financial Allocation

Financial Allocation and Utilization: Grant sanctioned by Government and 100% utilized

Other Significant Information-

College of Nursing Army Hospital (R & R) also conducts six Post Basic Diploma Specialty 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 and the same has got the approval of MoD (Ministry of Defence) and Indian Nursing Council. These two courses have commenced from January 2022.

College of Vocational Studies

Breif History

College of Vocational Studies is a constituent college of University of Delhi, which was set up on 14 August 1972. The college is going to celebrate its golden jubilee in the current year, with different programs spread over the year. College was given a specific mandate of imparting vocational education to students, so that they may develop the skill sets necessary to be relevant to the evolving job market in the country. The courses that were offered at the time of inception include Book Publishing, Tourism, Insurance, Office Management and Secretarial Practice, Human Resource Management, Small Business and Entrepreneurship, Retailing and Trade,

among others. Over the time, a host of conventional courses including B. A. Hons (Economics), B. A. (Hons) History, B.Sc. (Hons) Computer Science, B. Com (Hons) were also introduced. A new course on B. A. (Hons) Business Economics was introduced in the year 1997. The college was one of the first two colleges to introduce the course. In 2017, three new courses were introduced, namely, B.A. (Hons) English, B.A. (Hons) Hindi and B.A.M.S. (Bachelor of Management Studies). Over the years, course contents are being regularly updated as per the guidelines of University of Delhi, keeping in line with the market demand.



Students with Distinctions

Akshita, Deepanshu Bansal, Nikhil Magoo, Gaurav Gupta and Ayush Monga were college toppers.

Publications

Kaur, H. (2022). Efficient Simple Liability Assignment Rules: A complete characterization. *Mathematical Social Sciences*. 116: 22-31.

Seminar/Conference Presentations

Dr. Gauri Mishra, presented a paper entitled, 'The Fragmented Self: A Study of two Women writers of the Indian Diaspora' in the virtual Conference on 7th JGU International Literary Conference on 'Postmodernism: Time for Reappraisal' on 2021, July 25.

Dr. Pvitra Kumari presented a paper entitled, 'Women's Writing Across Cultures' in the National Webinar organised by Al Ameen College, Edathala on 2021, November 27.

Dr. Kumar Ashutosh TIC was invited as a keynote speaker by the Ministry of Tourism, Government of Uzbekistan to deliver a talk on, 'Prospects of tourism industry in the post pandemic world: with reference to cultural tourism in India' during a program organized in collaboration with Samvardhan Trust, an NGO on 2020, July 22.

National/International MoUs Signed

MoU with the institutions of Ministry of Tourism, Government of Uzbekistan to work in the field of research and development.

MoU with the University of Macerata, Italy for higher education and the development of research and innovation.

Placement Details

80

75%

Number of Companies visited for campus recruitment

4

Extension and Outreach Activities

College students visited Old Age Home on the occasion of Happiness Week celebration on 23 and 25 March 2022. Students of NSS distributed old cloth amongst needy people.

Library

College maintains a well-equipped and modernized Library. It has 60351 books in its stock. It added 933 books in the current financial year. The College Library also subscribes various types of 25 national and international Journals like Accident Claim Journal, The economist and Harvard Business Review and 12 News Papers (Hindi and English language) for its users. The Library Reading Room remains open from 9.00 A.M. to 5.30 P.M. for its users. Our Library is well known for its valuable, rare and unique collection of study and research material of Vocational Subjects throughout the country. The scholars from JNU and Jamia Millia Islamia University and other institutions visited the Library for literature search & data collection on Vocational Subjects/topics during the year. OPAC search facility also available for library collection to its users. The teachers and students were provided with tables equipped with laptop connectivity and Wi-Fi for preparing their course contents lessons, and assignments sitting in the Library. The teachers and students were given the access to e-resources of UGC/INFLIBNET.

Faculty Strength

136

Financial Allocation and Utilization

Funds allocated – Rs. 2300 lakhs

Funds utilized – Rs. 2618.21 lakhs

DAULAT RAM COLLEGE



Brief History

Daulat Ram College, University of Delhi is a premier educational institute for women founded by Shri Daulat Ram Gupta, in 1960. Originally the college started with the name as “Pramila College” at 22 Tilak Marg with thirteen members of teaching staff and about three hundred and fifty students. The college shifted to its present premises in the North Campus of University of Delhi and was renamed as “Daulat Ram College” in the year 1962. Expansion of the college took place in 1968 with introduction of science courses. At present the college has 18 undergraduate courses with over 4500 students on roll, 190 faculties and 131 non-teaching staff. College has seven departments that enrol students at the Masters level.

Internal Quality Assurance Cell (IQAC) of the college formulates the academic calendar and is responsible for monitoring all academic events. College is accredited with 'A' Grade (3.36) by National Assessment & Accreditation Council (NAAC) in April 2017 and is placed at 29th rank by MHRD in National Institutional Ranking Framework (NIRF) in the year 2022. College has been awarded with Star Status by Department of Biotechnology (DBT), Government of India (GOI) for undertaking innovative practices in Science Departments.

College recently partnered with Government College, Chouhtan, Barmer and Government Girls College, Magra Punjla, Jodhpur, Rajasthan under the Vidya Vistar Scheme of University of Delhi. The partnership aims to facilitate sharing of resources and expertise amongst the partnering institutions to enhance the academic capital of the students and the faculty.

College has well-equipped Science laboratories; computer laboratories and the entire campus is wifi enabled. Well-resourced Conference Hall, fully air-conditioned library with over 1,20,000 titles and numerous subscribed journals with computerized data base and access. The college is well-equipped in sports facilities including a state-of-the-art gymnasium having latest fitness equipments. The

college also has a well-maintained hostel with a capacity of nearly 204 students. The college has a modern auditorium- Sadbhavana Bhawan with the capacity of above 1000 persons.

College with its broad mission to bring out holistic development of students provides an enriching environment required for their intellectual, social, ethical, moral, emotional and physical growth. The congenial environment positively affects student learning skills, interpersonal-relations along with academic skills.

Major Activities and Achievements

During the year 2021, college signed two tripartite MoUs under University of Delhi's Vidya Vistar Scheme with Dr. Malini Sharma as Co-ordinator, with colleges of Rajasthan namely, Government college, Chouhtan in Barmer district and Government Girls College, Magra Punjla in Jodhpur district.

The third MoU in the session was with Delhi State Legal Services Authority (DSLISA). DSLISA has extended the necessary skill and invaluable support in starting an Add-on course on “Legal Literacy, Awareness and Aid” from 2021-22.” monitored by the Academic Advisory Board headed by Justice (Retd) M. L. Mehta with Dr. Sonia Mehta as College Course Co-Ordinator.

College introduced another Add-on-Course in ‘Data Analytics with R’ in collaboration with Meghnath Desai Academy of Economics with Dr. Malini Sharma as Convenor.

Internal Quality Assurance Cell (IQAC) of the college organized 19 programmes which included Faculty Development Programs, Webinars, Workshops and Conferences for students and teachers.

Sixty-six students from college were placed in Multinational companies with an annual salary package ranging from 4 to 10 lakhs and eighty-nine students were recipient of internships through the Placement cell of the college headed by Dr. Kalpana Vaish and her team.



Dr. Suparna Jain Thakur successfully completed her training at OTA Gwalior and was awarded as first in order of merit (commandants gold medal), 'Best NCC Officer' of the course and best in academics award, a rare feat by any officer.

Nine cadets were selected for PM Rally. One cadet participated in prestigious Republic Day camp. Cadet Mansi Vatwani received DG NCC Medallion for her outstanding performance during PM rally 2022 and NCC as whole. Cadet JUO Shristi was awarded DG NCC Commendation Card, the only girl cadet chosen for this honour for her outstanding performance as a NCC cadet.

National Sports Organization of DRC wing has been educating youth through sports and physical training. Many students represented India in different international sports tournaments like World University Badminton Championship, Lawn tennis, Wimbledon, World Shooting Championship, Kabbadi Asian Championship held at Bangkok, Singapore, Malaysia etc. under the convenorship of Dr. Kavita Sharma.

In continuation with our commitment towards holistic development, the college actively encourages students to participate in the National Service Scheme. Students have undertaken commendable work with Seva Bharati and Palna. In addition, faculty has guided and supported the students to participate in Covid-Vaccination awareness camps, Swachha Bharat Abhiyan, Nadi-Ko- Jano and other sustainable initiatives.

Recycling unit of college along with Eco Club 'Dhara' is trying to achieve a status of zero waste discharge premises. In addition to recycling of paper and converting leaves into manure, Plastic Vending Machine for disposal of plastic bottles on campus has been added. College has installed solar street lights in the campus and three sumps for harvesting rain water.

Award for the best employee for the year was given to Rajvir Giri of Department of Biochemistry and Mr Vinod Kumar Choudhary in Administration. Twenty-two faculties from different departments were promoted from Assistant Prof. to Associate Prof. and Nine faculties were promoted from Associate Prof.s to Prof.s.

Honours/Distinctions

Prof. Savita Roy was awarded with 2nd APJ ABDUL KALAM National Dedication Award 2021 (Corona Warrior) in the field of education on 4 February 2021.

Prof. Savita Roy was awarded with Dr. S. Radhakrishnan Memorial Award, in recognition of extraordinary service, dedication and contribution in the field of teaching and learning by 'Respect India NGO' on 6 September 2021.

Dr. Padmshree Mudgal was awarded with Dr. Sarvepalli Radhakrishnan Best Teacher Award in Biochemistry by National Centre for professional advancement. Vijayvada, India during September 2021.

Dr. Rekha Kathal was awarded with III prize for oral presentation by 'Environment and social development association (ESDA)', Delhi during the period 1to 3 October 2021.

Dr. Rekha Kathal was awarded with ESDA Eminent Scientist award 2021 by Environment and social development association (ESDA)- Registered with NITI Ayog and CPCB, Delhi during the period 1to 3 October 2021.

Dr. Rekha Kathal was awarded with Dr. Sarvepalli Radhakrishnan Best Teacher Award in Biotechnology by Centre for Professional Advancement (Registered with NITI Ayog) on 5 September 2021.

Dr. Sunita Gupta, was awarded with third prize for Best Paper Presentation in International Conference on International Multidisciplinary Conference on Research And Practices In Humanities Social Sciences, Education Commerce & Business Management (ICHSECM- Virtual-2021) by Inspira Research Association, Jaipur & Lal Bahadur Shastri PG College, Affiliated to University of Rajasthan Jaipur on 30 April 2021.

Dr. Malini Sharma was awarded with "Pride of India Excellence Award" for exemplary contributions in the field of women empowerment by Respect India NGO on 7 March 2021.

Dr. Pooja Sharma was awarded with National Best Researcher Award 2021 in Environmental Economics by 'The International Multidisciplinary Foundation (IMRF)' on 11 November 2021.

Dr. Pooja Sharma was appointed as Secretary in National Executive Committee, Akhil Bhartiya Rachanatmak Samaj, A Federation of Gandhian Institutions and Social Activists by Akhil Bhartiya Rachanatmak Samaj (ABRS) on 8 November 2021.

Students with Distinctions

Heena Yadav of M. A. Psychology II year secured first rank in the University.

Annu of B.Sc. (Hons) Mathematics II year secured first rank in the University North Campus.



Rida Rafiqi from B.Sc. (Hons) Biochemistry I year secured first rank in the University North Campus.

Jasmeen Bansal from B.A. (Prog.) II year secured first rank in the University North Campus.

Aditi Yadav from B.A. (Hons) Philosophy II year secured first rank in the University North Campus.

Bhavya Pandey, of B.A. (Hons) Economics III year has been adjudged as the Best All Round Student for the academic session 2021-22.

Mansi Vatwani of B.Sc. (Hons) Botany III year was awarded with Shri Krishan Mohan Memorial Prize-for 'All Round Best Student' for the last academic year.

Publications

Chauhan, N. C., Kumar R., Gupta, A., Meena, R. C., Nanda, S., Mishra, K. P., Singh S. B. (2021). Heat stress induced oxidative damage and perturbation in BDNF/ERK1/2/CREB axis in hippocampus impairs spatial memory. Behavioral Brain Research. 396: 112895.

Gupta, S., Ravikant, C., Kaur, A. (2021). One-pot wet chemical synthesis of reduced graphene oxide-zinc oxide nanocomposites for fast and selective ammonia sensing at room temperature. Sensors and Actuators A: Physical. 333: 112965.

Jain, S., Swami, S. K., Dutta, V., Sharma S. N. (2021). Impact on Structural, Morphological, and compositional properties of CZTS thin films annealed in different environments. Journal of Inorganic Chemistry Communications. 133: 108879.

Jain, A., Yadav, S., Malhotra, P. (2021). Accidental synthesis of a trimer of pyrazolone and comparison of its antioxidant activity: an investigatory report. Journal of Chemical Sciences. 133: 77.

Khosla, M. et. al. (2021). A multi-country test of brief reappraisal interventions on emotions during COVID-19 pandemic. Nature Human Behavior, Springer, 05(8): 1089-1110.

Khosla, M. (2022). A Global experiment on Motivating Social Distancing during the COVID-19 Pandemic. Psychological and Cognitive Sciences. 119(22): e2111091119.

Mangla, O., Roy, S. (2021). Synthesis of nano-diamond-like carbon for protective optical window

coating applications. Bulletin of Materials Science. 44: 273.

Sharma P. (2021). Pathways of Energy Transition and Its Impact on Economic Growth: A Case Study of Brazil. Chapter in Book Energy: Crises, Challenges and Solutions, ISBN:9781119741503 (DOI:10.1002/9781119741503).

Sharma M., Karne, M. (2021). Labor Force Participation and Economic Challenges for Women in Post-COVID India. Gendered Experiences of COVID-19 in India, edited by Moly Kuruvilla and Irene George, published by, Springer Nature Switzerland AG, Gewerbestrasse 11, 6330 Cham, Switzerland under the imprint Palgrave Macmillan. (DOI: 10.1007/978-3-030-85335-8), 57-75.

Yadav, S., Jain, A., Malhotra. P. (2021). Bioinspired synthesis and green ecological applications of reduced graphene oxide based ternary nanocomposites. Sustainable Materials and Technologies, 29: e00315.

Research Projects

Project entitled, 'Body image, acculturation and migrants' sanctioned from LA Trobe University, Melbourne, Australia in the year 2022 for Rs. 50,000/- (Consolidated)

Seminars Organized

Seminar entitled, 'All that is dance: Tracing the history of Movement arts in India, Performing Arts and History' delivered by Dr. Urmimala Sarkar Musni, Associate Prof., Jawaharlal Nehru University on 22 February 2022.

Seminar entitled, 'Artificial intelligence and Machine learning for Physics' delivered by Dr. Shivi Garg J.C. Bose University of Science and Technology on 12 February 2022.

Seminar entitled, 'The Aesthetics of classical music' delivered by Dr. Anupam Mahajan, Prof., Music and Fine Arts, University of Delhi on 22 February 2022.

Seminar entitled, 'Footprints of Indian Women in science' delivered by Prof. Rita Kakkar, Former HOD, Department of Chemistry and Dean of Sciences, University of Delhi on 25 August 2021.

Seminar entitled, 'Decoding NEP: Redefining Goals and Pedagogies of Today's Education for the world of tomorrow' delivered by Prof. Shobha Bagai, Prof., Cluster Innovation Centre on 24 August 2021.



Conferences Organized

Organized a Webinar entitled “Footprints of Indian Women in Science” by Department of Chemistry on 25 August 2021.

Organized a programme entitled “Positive Conversations 2.0: Igniting the H.E.R.O. within” by Centre for Well-being and Flourishing, (earlier Positive Psychology Centre), Department of Psychology on 15 September 2021.

Organized an International Conference entitled “Infections and Immunity” by Department of Zoology from 8 to 10 October 2021.

Organized a Workshop entitled “Vedic Mathematics” by Department of Mathematics from 18 to 21 December 2021.

Organized a Webinar entitled “Artificial Intelligence and Machine Learning for Physicists” by Department of Physics on 12 February 2022.

Organized a Webinar entitled “The Aesthetics of Classical Music” by Department of Music on 22 February 2022.

Organized a Seminar entitled “Performing Arts and History” by Department of History from 22 to 23 February 2022.

Seminar/Conference Presentations

Dr. Padmshree Mudgal (Biochemistry Department) presented a paper on “Assessment of Health Impact of food colorants using Zebra fish model system” in the 2nd Global Summit on Food Science and Nutrition 2021 held on 2021, October 29-30 in Vienna, Austria.

Dr. Padmshree Mudgal (Biochemistry Department) presented a paper on “Zebrafish model system: a tool for drug discovery” in an International E-Conference on “Recent Trends in Drug Discovery and Development” organized by Department of Chemistry, Maitreyi College, University of Delhi on 2021, October 08-09.

Dr. Rekha Kathal (Botany Department) presented a paper on “Recent developments in Phytoremediation - inclusive advanced wastewater treatment technologies” in a program organized by Environment and Social Development Association (ESDAC) Delhi, held at India International Centre, Lodhi Road, New Delhi during 2021, October 01-03.

Dr. Sunita Gupta, (Commerce Department) presented a talk on “MSMEs and IBC: Opportunities and Challenges” in a program organized by UNCITRAL

RCAP, Insolvency and Bankruptcy Board of India (IBBI), Tamil Nadu National Law University (TNNLU) and GNLU Centre for Corporate and Insolvency Law (GCCIL) on 2022, February 03.

Dr. Pooja Sharma (Economics Department) presented a talk on “Role of energy efficiency in energy transition: a decomposition analysis of energy-use” in a program organized by 5th International Conference on Fossil & Renewable Energy (F&R Energy – 2021) on 2021, March 01-03.

Ms. Vandana (English Department) presented a talk on “Re-reading Dalit writings in Translation: Understanding the Nexus Between English Language and Dalit Empowerment” in an International Conference on ‘Language Ideologies and the ‘Vernacular’ in South Asian Colonial and Post-Colonial Literature(s) and Public Spheres’ organized by Department of English, Jamia Milia Islamia University on 2021, March 15-17.

Dr. Shobhit Sachan (Physics Department) presented a talk on “How are the degrees of freedom responsible for entropy in BTZ spacetime?” in an International Conference on ‘Advancement in Core and Frontier of Physics (ACFP– 2022)’ organized by GLA University Mathura on 2022, February 05-07.

Ms. Sitakshi Gupta, (Physics Department) presented a talk on “Investigating the effect of rGO content on the ammonia sensing response of rGO-ZnO nanocomposites” in 2nd International E-Conference on ‘Advances in Smart Materials & Emerging Technologies, (ASMET-2021)’ organized by Department of Applied Sciences & Humanities, Indira Gandhi Delhi Technical University for Women in association with OPTICA (formerly OSA) on 2021, December 20-21.

Dr. Meetu Khosla (Psychology Department) presented a talk on “Traditional Healing practices in India” in the ‘First Southeast Asian Indigenous Psychology Scientific Meeting (SEA-IP, 2021)’, organized by Monash University, Malaysia on 2021, December 04.

Dr. Pooja V. Anand (Psychology Department) presented a talk on “Coping with suffering through emotional intelligence” in the ‘11th Biennial International Meaning Conference’ organized by



International Network on Personal Meaning, Canada (online) on 2021, August 08.

National/International MoUs Signed

College signed two tripartite MoUs under University of Delhi's Vidya Vistar Scheme, with colleges of Rajasthan namely, Government College, Chouthan in Barmer District and Government Girls College, Magra Punjla in Jodhpur district.

College signed MoU with Delhi State Legal Services Authority (DSLSA) to skill the youth in "Legal Literacy, Awareness and Aid".

Other Inter-Institutional Collaboration

College introduced an Add-on Course in "Data Analytics with R" in collaboration with Meghnath Desai Academy of Economics

Placement Details

75

7.5

Number of Companies visited for campus recruitment

Deloitte Audit Assistant, Accenture HR Analyst Nation with Namu Political Consultant Jaro Education Graduate Trainee Planet Spark Business Development Counsellor Wipro Financial Analyst Newzera News Curator, Copy Writer, Recruiter, People Operations Grail Insights Management Trainee Tresvista Analyst CFO Skuad Associate-Global Shared Services, Data Analyst, Talent Success Executive TopHire Talent Acquisition Associate Byju's Curriculum Associate POSist Technologies Ltd Solutions Consultant (Sales), Key Account Manager Capgemini HR Analyst Galytix Data Analyst HCL Technologies Project Management Office Jamboree India Alliance Admission Counsellor Filo Operations Associate Accenture Project control services, Low/no-code app development, Advanced App/Cloud support & engineering, Test engineering

Extension and Outreach Activities

For holistic development, the college actively encourages students to participate in the NCC (National Cadet Core), NSS (National Service Scheme) and NSO (National Sports Organization). Nine cadets, who were enrolled in NCC of the college, were selected for the PM Rally. One cadet participated in prestigious Republic Day camp as well. It's a proud

moment for college as Cadet Mansi Vatwani has received DG-NCC Medallion for her outstanding performance during PM rally 2022 and NCC as whole. Cadet JUO Shristi from awarded with DG NCC Commendation Card for her outstanding performance as a NCC cadet. She was the only girl cadet chosen for this honour. Apart from this, many other programmes such as Kargil Vijay Diwas, Nukkad Natak, were celebrated as part of Azadi ka Amrit Mahotsav by NCC. Students of NSS worked with Seva Bharati and Palna. In addition, faculty has guided and supported the students to participate in Covid-Vaccination awareness camps, Swachha Bharat Abhiyan, Nadi- Ko- Jano and other sustainable initiatives. National Sports Organization of DRC wing has been educating youth through sports and physical training. Physical Activity - A Way towards Life, Stress Relaxation through Yoga, Motivation is the Key to Success etc. was organised by Sports Board.

Library Development

College library has a rich collection of books and other reading materials and is expanding its quality collection with every passing day. It holds more than 1 lakhs books and subscribes to 20 magazines. It has a welcoming ambience and a reading room with a good sitting capacity. Library also has a reference section containing attractive titles for library users. Recently the library has purchased 20 new computers for its e-library section where students and teachers can avail the facility of e-resources subscribed by the Delhi University Library System (DULS). The library is a registered member of N-LIST, INFLIBNET. During the period from April 2021 to March 2022, the library has added 1139 books to its collection. It has a brail section with a good collection of braille books. The rare book collection of the library makes its unique place among the different libraries of Delhi University. Moreover, the library offers wireless access to the Internet at broadband speed also."

Faculty Strength

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Financial Allocation and Utilization

Funds allocated = Rs. 373500000/-

Funds utilized = Rs. 379871774/-



DELHI COLLEGE OF ARTS & COMMERCE

Brief History

Delhi College of Arts & Commerce is located in the quiet and peaceful enclave of Netaji Nagar in South Delhi. College offers six undergraduate courses leading to a Bachelor with Honours in addition to courses in B. Com Programme and B.A. Programme with twelve discipline combinations, under the CBCS-LOCF mode along with various add-on foreign-language courses. College provides an exciting learning experience for students, faculty members and non-teaching staff. Learning process includes lectures, seminars, workshops, power-point presentations and conferences which help students gain latest insights and information. These processes also endow them with valuable life-skills enabling them to creatively negotiate between traditional values and the possibilities offered by the contemporary world.

College boasts of a state-of-the-art Media Lab and a Multi-Purpose Hall which create conditions for innovative pedagogical practices. College has a dynamic Placement Cell which help students secure positions with attractive packages in leading Multinational Corporations. Apart from excelling in academics, college motivate its students to fulfil their social responsibilities. Project TanZeal, an initiative of the college, provides holistic education to underprivileged children in the neighbourhood. College is Wi-Fi enabled, has a fully equipped computer lab with over 120 computers, a well-stocked library with an e-resource centre. Sports, NSS and NCC units have brought us many laurels. College has vibrant student societies such as photography, debate, fashion, street play, dance and music, ENACTUS, prakriti etc.

Major Activities and Achievements

College observed Vigilance Awareness Week from 26 October 2021 to 1 November 2021. The theme of the event was "Independent India and 75: Self Reliance with Integrity". College organized World

Environment Day on 5 June 2021, World Blood Donor Day on 14 June 2021, International Yoga Day on 21 June 2021. Azadi ka Amrit Mahotsav was marked by organization of lectures, webinars and competitions.

Various Departments held seminars and talks by renowned persons. Department of German organized a webinar which marked 75 years of Indo-

German collaboration in the field of 'Education' on 24 September 2021. Department of English organized a talk by Prof. Dubey's on the topic "Cultural and Aesthetic aspects of Utopia in Gandhi's Writings" on 18 September 2021. Department of Commerce organized a webinar on "Police Imaging: Changing Perspective of Police Among Public in India" by Mr Suvashis Choudhary, IPS officer on 21 January 2022. Department of Economics organized a talk by Dr. Navneet Manchanda of World Bank on "Untangling Kerala's COVID-19 Conundrum" on 14 September 2021.

Department of Journalism organized a lecture by Journalist Andrew Otis, University of Maryland on the topic "Hicky's Bengal Gazette and the Indian freedom movement" on 10 September 2021. Department of History organized a lecture by Prof. Sucheta Mahajan from Jawaharlal Nehru University on the topic "The Legacy of Freedom and Partition" on 11 August 2022. Department of Political Science organized a lecture by Retd. IPS officer, Yashovardhan Azad on the topic "Issues and Challenges in the Indian Bureaucracy" on 24 September 2021. Department of Spanish organized a webinar entitled, "Prospering Indo-Argentine relations since the Independence of India" on 12 October 2021 which was delivered by H.E. Hugo Javier Gobbi who is Ambassador of the Argentine Republic. NSS organized innumerable competitive events for the students. NCC has brought many laurels to college and 8 of our cadets were recommended for the Defence Forces.

Honours/Distinctions

Ten faculty members were promoted as Prof.: Prof. Rajiv Kumar Goel, Prof. Anita and Prof. Neeru Kapoor from Department of Commerce. Prof. V.B. Singh from Department of Computer Science. Prof. Shalini Saksena from Department of Economics. Prof. Amrit Kaur Basra and Prof. O.P. Singh from Department of History. Prof. Sujeet Kumar and Prof. Dwivedi Anand Prakash Sharma from Department of Hindi. Prof. Chaitanya Kumar from Department of Mathematics.



Four faculty members were awarded with Ph.D. degrees: Dr. Bir Singh from Department of Economics, Dr. Vivek Mohan from Department of History, Dr. Madhu Kumari from Department of Computer Science, Dr. Rishabh Gupta, from Department of Commerce.

Dr. Deepti Taneja received the “Rashtriya Shiksha Rattan Award” by the National Human Welfare Council on 12 August 2021 to mark the 75th year of India’s Independence for exemplary contribution to the cause of Education.

Students with Distinctions

Nitya Nasa secured a CGPA of 9.57.

Mohit Singla secured a CGPA of 8.81

Aryaman K secured a CGPA of 7.97

Ishita Agarwal secured a CGPA of 8.054

Anmol Sharma secured a CGPA of 8.28

Publications

Saksena, S., Singhal, R. (2021). Dynamics at the sub-sectoral level. *Indian Journal of Economics and Development*. 04(17): 745-756.

Taneja, D. (2022). Indian Economy: An analysis of the Journey of last 75 years and seeing ahead for the next 25 years. *India Calling*, 12(Special Issue): 22-24.

Chaturvedi, V. G. (2021). ‘A storm-tryed matron of thirty-seven’ Writes Her First Novel: The Importance of George Eliot’s Janet’s Repentance. *Salesian Journal of Humanities & Social Sciences*. 02(12): 13-26.

Sabharwal, T. (2022). You are What You Tweet: Analysing Celebrity Culture on Twitter. *International Education and Research Journal*. 03(08): 05-11.

Kohli, A. (2022). Medium is the Sensation: OTT Platforms on the Smartphone Screen. *Akademos*. 16: 17-46.

Singh R. (2021). Nautanki: The Making of the Tradition. *Kalakalpa: Indira Gandhi National Centre of the Arts (IGNCA) Journal of Arts*. 02: 137-154.

SinghB. (2021). Covid Pandemic, Welfare State, and Informality in India's Manufacturing Sector: A Perspective. *International Journal of Economics Business and Human Behaviour*. 4(2): 1-08.

Sapra, R., Goel, R., Gupta, R. (2021). A Bibliometric Analysis on Asset Pricing Model. *Empirical Economic Letters*. 02(20): 85-100.

Kumar K. (2021). Impact of Computerized Accounting System (CAS) in Financial Reporting of Micro-Enterprises in Delhi. *International Research Journal of Management Sociology & Humanities*. 08(12): 86-100.

Thakur, B. (2021). Significance of Worker’s Participation in Management: A Critical Analysis. *Sanskriti International Multidisciplinary Research Journal*. 02(03): 123-127.

Journals

Prof. Rajiv Chopra is an Editor- In-Chief and Dr. Smita Banerjee as an Editor for *Intellectual Resonance DCAC Journal of Interdisciplinary Studies*. Annually produced. 04: 04-189.

Seminar/Conference Presentations

Bijaya Thakur presented a paper entitled, ‘Perspective and need of Skill Oriented Education: Comparison and Development’ in one day Multidisciplinary International E- Conference on ‘Changing Perspective of Education On The Topic’ held on 2021, September 04.

Smita Banerjee presented a paper entitled, ‘Gendered Public Spheres: Re-notating the Female Star text via Physical/Digital Public Sphere’ during an International Seminar on ‘Locating the Public Sphere in Contemporary India: Theory and Practice’ organized in an online mode by Motilal Nehru College, University of Delhi from 2022, March 21-23.

Neha Jingala presented a paper entitled, ‘Impact of Social Media on Youth during the COVID-19 Pandemic: A Cross-Sectional Study’ at an International Conference on ‘Role of Media During COVID-19 Pandemic’ jointly organised by Department of Journalism & Mass Communication and Department of Professional Communication, Invertis University, Bareilly on 2021, July 07.

Renu Singh presented a paper entitled, ‘Marriage, Gender and Bollywood: A Critical Study of Badhai Do’ during the ‘World Women Conference-IV’ organized by Mata Sundari College for Women, University of



Delhi in collaboration with IKSAD, Turkey held on 2022, March 09-08.

Neelam Yadav presented a paper entitled, 'Death and Magic Realism in Murakami Haruki's New York Mining Disaster' at the 7th JGU International Literary Conference held in an online mode on the topic "Postmodernism: Time for Reappraisal" organized by the English Literary Society, O.P. Jindal Global University from 2021, July 23-25.

Rittvika Singh presented a paper entitled, 'Through The Ages of Desired Continuity: A Case of Nautanki' in an International Conference (online) on Folk Traditions and Forms in India organized by Department of English, Jamia Milia Islamia, New Delhi on 2022, March 11-12.

Animesh Mohapatra presented a paper entitled, 'Re-making English to narrate India: Some Observations on Midnight's Children' at a National Conference on Writing English, Narrating India; R. K. Narayan and His Kind's organised by the Department of English, KKS Women's College, Balasore, Odisha on 2022, March 14.

Rishabh Gupta, presented a paper entitled, 'The Cross-Section of Expected Stock Returns – A study on India and Thailand Stock Markets' in a virtual International Conference on Innovative Practices in Commerce & Management during Pandemic Era, organized by Department of Commerce, School of Commerce and Management, Central University of Rajasthan, Ajmer on 25 and 26 November 2021, November 25-26.

Enami Chopra presented a paper entitled, 'Narrating India: A Contemplation of the Mystical in E. M. Forster's A Passage to India' at a National Conference on "Writing English; Narrating India: R. K. Narayan and his Kind," organized by the Department of English, KKS Women's College, Balasore on 2022, March 14.

Neelam Yadav presented a paper entitled, 'The Forgotten Population: Harsh Mander's Locking Down the Poor and Nirmal Verma's - Singhralli: Jahan Koi Wapsi Nahi' at the Crossroads – A two-day International virtual conference jointly organised by Department of English, Vel Tech Rangarajan and Dr. Sagunthala R&D Institute of Science and Technology 2021, November 17-18.

University of Delhi: 99th Annual Report 2021-22

Number of Companies visited for campus recruitment

In the academic year 2021-22, the placement cell managed to collaborate with more than 60 companies to get over 90 students placed with offers extended from Global firms like KPMG, EY GDS, Wipro, Tres Vista, Newzera, Grant Thornton, Willis Tower Watson, Larsen and Toubro in a plethora of job profiles: finance, accounting, sales, content writing, research and audit among others.

Extension and Outreach Activities

Staying true to the core philosophy of uplifting the marginalized communities through the power of social entrepreneurship, Enactus DCAC worked on 2 projects this past year, namely Project Taaleem and Project Zaraat.

1. Project Taaleem aims to revolutionize the lives of the refugee children by imparting primary education through a community driven model where the teachers are identified from within the community itself. This year community libraries were set up in taaleem centers, which housed more than 3000+ books for the children. With Adani Foundation as financial partner to provide new furniture and 30 chairs were provided in our taaleem centers.

2. Project Zaraat is Enactus DCAC's latest project which aims to minimize post-harvest losses by equipping the farming community with affordable, portable and eco-friendly storage solutions. Zaraat further enhances the forward linkages and provides the farmers with an income boost by tying up with B2B organizations. Received mentorship sessions from Indian Agricultural Research Institute and Michigan State University.

Library Development

During the academic year 2021-2022 about 488 books were added to the library. Remote access of E-resources of DULS to millions of e-books, e-journals and e-articles are provided. N-LIST (subscribed by college) provide 6000+ e-journals and 164300 + e-books. Services provided by the Library are Reference/ Referral Service, Internet Searches, Web OPAC, Current Awareness Service and Plagiarism Check for faculty members of their research works through "URKUND" software.

Library has shifted from existing software (Netlib/Libware) to KOHA software (open source software) on cloud server installation. The KOHA software facilitates remote access to data regarding college library holdings including book's location,

book status, user membership transaction and e-mail/notices to update the users.

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Financial Allocation and Utilization

Amount Allocated: Rs. 38,22,37,000/-

Amount Utilized: Rs. 34,18,78,000/-

Faculty Strength

DEEN DAYAL UPADHYAYA COLLEGE



Brief History

Deen Dayal Upadhyaya is a constituent college of the University of Delhi. The Government of National Capital Territory of Delhi established the college in the year 1990 in Karampura. The college receives 100% grant from the Govt. of NCT of Delhi and is recognized under 2 (f) and 12 (b) of the UGC Act. College caters to the students of Delhi as well as neighbouring states, particularly Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh and Bihar. Recently we have shifted to our new campus in Sector-3, Dwarka.

The new campus of college building is built on a plot of 7.7 acres in Sector 3, Dwarka which is a state-of-the-art building. It is a multi-story building with many features of a green building. Rain water harvesting system and water recycling plant are already in place. We intend to use the roof tops for generation of solar power and install a waste treatment plant for addressing the issues of bio-waste disposal.

College offers nine under-graduate Honours programs in Computer Science, Electronics, Physics, Chemistry, Botany, Zoology, Mathematics, English, Commerce and Bachelor of Management Studies. Further, we also run bachelor's programme in Physical Science, Life Science, Mathematical Science and Bachelor in Arts. The college also offers ad-on courses in Russian Language and Effective Communication and Personality Development through Theatre (ECPDT) which are very popular amongst students. Recently, college a certificate course in French.

Some of our faculty members, including the Principal, have been members of the Academic and Executive

councils, Boards of Research Studies, Departmental Committees of Courses as well as syllabi drafting committees in the year 2021-22. Total number of students in the year 2021-22 were 2531 of which 1422 were male and 1109 female.

Major Activities and Achievements

Students of the college are groomed in all dimensions required to compete in the fast-growing technological world in addition to their academics. Several curricular, co-curricular and extra-curricular activities are conducted by the Student Activity Boards, Subject Societies and Clubs.

College achieved distinction of being ranked 11th among Science colleges, 17th amongst Commerce colleges, and 37th amongst Arts colleges in India by the India Today-MDRA Best Colleges Ranking 2022. College was ranked 21st out of 2270 colleges participating in the NIRF India Rankings 2022 conducted by the Ministry of Human Resource Development (MHRD).

Pass percentage of the outgoing batch of 2021 appearing in the university examination held in May/June 2021 was 99.87% (788/789). Students also won laurels in extracurricular and sports activities. Under the auspices of NSS, students participated actively in Civil Defence and Disaster Management programmes, election awareness campaign and creating tobacco free communities. In the outreach programme the college worked for the benefit of under-privileged children from slum colonies by adopting a colony and also for the disabled including



Visually-Challenged and Spastics. NSS unit also organized cultural programmes and sports events for differently abled.

Honours/Distinctions

Dr. Nupur Verma was among the top five scorers in a research course named “Atomic Astrophysics and Spectroscopy with Computational workshops on the Superstructure and R-matrix codes” held online by Ohio State University, USA under INDO-US APJ Abdul Kalam STEM education and research centre of AMU from 16 to 31 October 2021. She was deputed by the Department of Atomic Energy, Government of India on invitation by International Atomic Energy Agency (IAEA), Vienna, Austria to present a paper at “The 2nd Meeting of the Global Network for the Atomic and Molecular Physics of Plasmas GNAMPP” held during 6 to 9 December 2021 in Austria with participants from 21 countries.

Dr. Sudhir Verma was appointed as an Academic Fellow of Institute of Lifelong Learning, University of Delhi for the year 2021-22. He is a recipient of S. K. Mahajan Award 2021 for the popularization of Scientific pursuit from HBCSE, TIFR, Mumbai under stemgames.metastudio.org initiative.

Dr. Ratnesh Rajan Saxena was elected as Member of Academic Council of the University of Delhi for 2021-2023.

Dr. Lalit Kumar was appointed as Member of Arts Faculty, University of Delhi for 2021-2023.

Students with Distinction

Ram Shankar R of B.Sc. (Hons) Zoology VI Semester secured I position in college with a CGPA of 9.525.

Monika of B.Sc. (Hons) Botany VI Semester secured I position in college with a CGPA of 9.851.

Pulkita of B.Sc. (Hons) Chemistry VI Semester secured I position in college with a CGPA of 9.541.

Juhi Goyal of B.Sc. (Hons) Mathematics VI Semester secured I position in college with a CGPA of 9.838.

Harshita Dalmia of B.Sc. (Hons) Computer Science VI Semester secured I position in college with a CGPA of 9.892.

Publications

Aggarwal, M., Nidhi, Tyagi, N. (2021). Money management skills of people amidst the pandemic. *Journal of Commerce and Trade*. 16(2): 18-22.

Anand, A., Reeta, Rawal, D.S., Narang, R., Mishra, M., Saxena M., Gupta, M. (2021). A comparative study on the accuracy of small-signal equivalent circuit

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modelling for large gate periphery GaN HEMT with different source to drain length and gate width. *Microelectronics Journal*. 118: doi: <https://doi.org/10.1016/j.mejo.2021.105258>.

Chopra, R., Kumar A., Saxena, R.R. (2021). An Efficient Enumeration Technique for a Transportation Problem. *Neutrosophic Environment, Neutrosophic Sets and System*. 47: 354–365.

James, A., Yadav, D. (2022). Bioaerogels, the emerging technology for cleaner, sustainable wastewater remediation: A comprehensive review on synthesis, properties and applications. *Environmental Research*. doi.org/10.1016/j.envres.2022.112963.

Kumar R. (2022). India-China: Changing bilateral trade and its effect on economic growth. *Singapore Economic Review*. 66(7): <https://doi.org/10.1142/S021759081950005X>

Neha, Kumari, V., Gupta, M., Saxena, M. (2022). Investigation of proton irradiated dual field plate AlGaIn/GaN HEMTs: TCAD based assessment. *Microelectronics Journal*. 122: doi: <https://doi.org/10.1016/j.mejo.2022.105405>.

Singh P., Kumari, V., Saxena, M., Gupta, M. (2021). TCAD investigation for Dual-Gate MISHEMT with Improved Linearity and Current Collapse for LNAs. *IETE Technical Review*. doi: 10.1080/02564602.2021.1997362.

Upasana, Saxena, M., Gupta, M. (2022). Undoped Drain Graded Doping (UDGD) based TFET design: An innovative concept. *Superlattices and Microstructures*. doi: 10.1016/j.spmi. 2021.107147.

Verma, N. (2021). Energy Levels, Radiative Data and Collisional Excitation of Chlorine like Tungsten. *Journal of Atomic, Molecular, Condensed Matter & Nano Physic*. 8(2): 113–132.

Goel, P., Verma, S. (2022). Can simulated models take over hands-on dissections? A survey on student perspective? *Indian Journal of Applied Research*. 12(6): DOI: 10.36106/ijar.

Research Projects



DRDO sponsored project entitled, 'Fabrication of Lamb Wave Devices on SiO₂/Si Membrane for Strategic Applications' for a sanctioned amount of Rs. 428 lakhs. Principal Investigator – Dr. P. K. Jha.

CARS DRDO sponsored project entitled, 'Layout Optimization and Thermal Analysis Switching Applications and LNA Design' for a sanctioned amount of Rs. 23 lakhs. Principal Investigator –

UGC sponsored project for a period of two years entitled, 'Solution Based Synthesis of Graphene Quantum Dots and Study of Photoluminescent Emission Property' for a sanctioned amount of Rs. 6 lakhs. Principal Investigator – Dr. Jyoti.

UGC sponsored project for a period of two years entitled, 'Magnetically active ionic liquids: Design, Synthesis and their Applications in Organic' for a sanctioned amount of Rs. 6 lakhs. Principal Investigator – Dr. Sunny Manohar.

UGC sponsored project for a period of two years entitled, 'Magnetically active ionic liquids: Design, Synthesis and their Applications in Organic' for a sanctioned amount of Rs. 6 lakhs. Principal Investigator – Dr. Kapil Bohra.

Patents Filed/Granted

Prof. Anurag Mishra, awarded an Australian Innovation Patent for Color image water marking scheme using partial homomorphic crypto system in ASWDR. compressed domain.

Seminars Organized

Seminar entitled, 'Roadmap to Financial Service Industry', delivered by Mr. Syed Jafri, Hedge Fund Accountant in the State Street Corporation on 10 February 2022.

Seminar entitled, 'Placement Extravaganza' delivered by Dadhichi Tripathi, Finance Manager in major E-com Company on 14 May 2021.

Seminar entitled, 'All about Equity Trading and Decision Making' delivered by Ms. Suravi Pradhan, Assistant Manager, HSBC on 5 September 2021.

Seminar entitled, 'Do Chart Patterns Work?' delivered by Dr. Sanjiv Das Bombay Stock Exchange on 11 October 2021.

Conferences Organized

Organized a 6th Annual International Conference of INSCR on 'Microbes in Sustainable Development' from 15 to 18 November 2021.

Organized a National Conference entitled, 'Sustainable Environmental Perspectives: A Journey from Ancient India' on 5 and 6 June 2022.

Organized an International Conference entitled, 'Corporate and Economic Transformation: Embracing the Change' on 24 and 25 March 2022.

Organized an International e-Symposium entitled, 'Intellectual Property Rights in Education and Research' on 16 February 2022.

Seminar/Conference Presentations

Dr. Lalit Kumar delivered a talk entitled, 'Lawrence in Mexico: The Myth of Sheshnag and Quetzalcoatl' at an online International webinar on "Mapping Modernism:

Movements and Concepts, organised by Department of English, MSCB University, Keonjhar on 2021, August 07.

Dr. Lalit Kumar delivered a talk on translation in a national seminar "National Consciousness and Translation" organised by Rajdhani College, department of English on 2021, September 30.

Dr. Lalit Kumar delivered the keynote address at a national Webinar entitled, "Passages through India: Literature, Travel and the Subcontinent, organised by Department of English, Maharaja Sriram Chandra Bhanjadeo University on 2022, March 17.

Dr. Poonam Garg presented a paper entitled, "On bounds for 2-Repeated burst error detection and single burst error correction" at the UGC-sponsored two days National Conference on "Advanced Statistics and Applied Sciences - 2022 (ASAS - 2022)" held on 2022, March 30-31.

Dr. Meghna Aggarwal and Dr. Pramod Kumar presented a paper entitled, 'Fintech – An Innovative Technology for massive Transformation' in the World Women Conference-IV organized by Mata Sundri College for Women, University of Delhi on 2022, March 08-09.

Dr. Meghna Aggarwal and Dr. Pramod Kumar presented a paper entitled, 'Fintech –Reforming the Financial Ecosystem' during the International Conference on Corporate and Economic Transformation- Embracing the Change organized by the Department of Management Studies and the Department of Commere, Deen Dayal Upadhyaya College, University of Delhi in association with Kautilya Foundation on 2022, March 24-25.



Dr. Nupur Verma delivered a talk entitled, 'Atomic Structure Calculations and Electron Impact Excitation of Chlorine like Tungsten Ions' at the 2nd Meeting of the Global Network for the Atomic and Molecular Physics of Plasmas GNAMPP during 2021, December 06-09 at Vienna, Austria organized by International Atomic Energy Agency (IAEA).

Dr. Priya Goel presented a paper entitled, 'Vermiculture Technology: A step towards Waste Management and Climate Resilience' in National Conference on 'Sustainable Environmental Perspectives: A Journey from Ancient India' organized by Environmental Studies and Department of Botany, Deen Dayal Upadhyaya College, University of Delhi in an online mode on 2022, June 05.

Dr. Priya Goel presented a paper entitled, 'Determination of Correlation Between the Concentration of Chlorpyrifos and the Efficacy of Immune System in Averting Parasitic Infections' in an International Conference on 'Infections and Immunity' organized by Daulat Ram College, University of Delhi in an online mode on 2021, October 08.

National/International MoUs Signed

MoU signed for Institutional Collaboration between Deen Dayal Upadhyaya College, University of Delhi and CSIR – Central Engineering Electronics Research Institute (CSIR-CEERI) on 8 September 2020 to encourage the development of the following exchange programs based on their respective academic and educational needs.

Placement Details

117
60%.

Number of Companies visited for campus recruitment

53

Extension and Outreach Activities

College organized MICROSHERE - An International Outreach Program on 17 September 2021.

Several initiatives were taken by NSS unit of the college. Some of these are mentioned below:

A stationary distribution drive was organized on 18 July 2021 in collaboration with 'Helping Hut' an NGO. College volunteers distributed educational and other stationery products and refreshment kits to the

differently abled kids of 'Prerna Niketan Sangh'. Twenty NSS volunteers participated in the event and distributed stationary items to more than fifty children. NSS volunteers organized a 'Swacchta Pakhwada' in the college campus from 1 to 15 September 2021 and organized several activities like, Plog Run (Picked litter while running and providing awareness to people), Swacchta Pledge, Hold Your Slogan Competition, Cleanliness Drive, webinar on Cleanliness and Women Sanitation and a Plantation drive was also organized in college premises and Sector 13 park of Dwarka.

A Voter's Day Pledge was undertaken on 25 January 2022 and more than 70 volunteers participated in pledge. College celebrated Girl Child Day on 24 January 2022 with organizing activities like 'Selfie with Daughter' and an Artsy was also conducted on National Girl Child Day with more than thirty volunteers who participated.

Two cloth distribution drives were organized; In the slum area of Sector 5, Dwarka on 24 September 2021 wherein NSS volunteers donated old clothes to nearly 50 needy people.

In Sector 5 and Sector 12 of Dwarka and among labourers and unprivileged people. More than twenty volunteers took part in this initiative.

A Food Distribution Drive was organized on 29 October 2021, on occasion of Diwali and in collaboration with "Robin Hood army". Volunteers distributed ready to eat Dalia and Upma packets in slum areas of sector 22 and 23 of Dwarka. More than 20 volunteers participated for the same. Other programs conducted by the NSS unit include 'Vocal for local' on 2 November 2021, 'Sweets Distribution on 4 November 2021, 'Project Care which included short programs like Instagram Stories, Practice of Positivity, Project Samavedana, Animal feeding programme, No more homeless mission' among others. A Poshan Abhiyan was organized during the Nutrition Week from 1 to 7 September 2021.

Project Naari was initiated with an aim of prioritizing women's upliftment and setting them free from certain taboos that circumscribe them. Following activities were conducted in this project:

Sanitary Pad Distribution Drive was conducted on 15 October 2021. Volunteers donated sanitary pads to women laborers of nearby areas.

A webinar on 'Sustainable Menstruation' was organized on 17 November 2021 in collaboration with 'Bleed Green'. This webinar provided



awareness on sustainable menstruation in which our guest speaker Ms. Mitushi educated participants to use sustainable products during menstruation and do their part for sustainable future.

A program on 'Health is Everything' was organized on 28 December 2021, in collaboration with ANS Trust.

Women's Day discussion on World Women's day on 8 March 2022.

Project Khausal was conducted with the motto to enhance the Skills to Educate, Empower and Earn. In continuation to this project, a workshop on 'Content Writing' was organized on 24 February 2022. Ms. Tanishka, a professional content writer, was the Resource Person for the workshop. NSS Leadership Program organized on 11 January 2022 in collaboration with Team Dekode Yourself and a webinar conducted on the occasion of National Science Day which was celebrated on 28 February 2022.

Project Chhoti Shuruat was also initiated by the college working towards sustainable future. Under this project, organic colours were prepared and distributed during Holi celebrations from 15 to 18 March 2022.

Voter I'd making camp was organized on 29 and 30 September 2021 in association with District Election Officer/DM of South West district. More than 200 registered for the event and were provided with their voter IDs.

An eye check-up camp was organized in the college campus in collaboration with Eye to Eye on 6 April 2022. A blood donation camp was organized on 28 April 2022 in association with globally integrated foundation for thalassemia.

PEHAL'22, an Annual Fest of the college was organized on 26 and 27 April 2022. foundation. An International Yoga day was celebrated from 19 to 21 June 2022. The theme of the program was "Yoga for humanity". A three days Yoga Camp was also organized in collaboration with Student Service Centre.

Library Development

Library has been successfully undertaking automated operations since last more than one & a half decade using professional database management software through a network of client-server system. Library has an up-to-date bibliographic database of books and journals. A total of 1667 volumes of books were added this academic year, making its total collection

as 49,188 volumes. Library subscribed to 30 journals and magazines of national and international repute in the relevant subject areas. Besides this, the library subscribed to 13 national newspapers.

The entire collection is heavily used by students and faculty members with a footfall of approx. 35000 visitors, resulting in 25000 transactions of volumes of books in the preceding year. Around 82 students of the weaker-section were also issued books under book-bank facility.

The other activities undertaken by the Library during this period are as follows:

Library held its 'User Orientation Program' on 20 November 2021 for the new batches in an online mode in different sessions.

Library compiled two issues of Bibliography comprising of new titles acquired during the FY 2021-22. It also compiled four issues of Table of Contents comprising of content pages of all issues of magazines and journals subscribed in the library. Four Documentation List on topics of interests, namely Aatma Nirbhar Bharat; COVID 19; NEP 2020 and Political & Military Conflict between Russia and Ukraine, were prepared.

Institutional membership of resource sharing network, DELNET, was added which augments its print and e-collection as well as other services. Library has become member of Sugamya Pustakalya whereby reading materials in the form of audio books etc. are made accessible to students belonging to PwBD Category.

A book exhibition was organized on 27 and 28 January 2022. Thirteen prominent publishers and vendors participated.

A list of useful web-links of many scholarly digital repositories were compiled and shared with students and faculty which was made available to students and faculty. Login-ID for subscribed e-resources under N-LIST program of UGC-INFLIBNET were also made available to all. Remote Login-ID was also provided to interested faculty members for access to e-resources subscribed by the Delhi University Library System.

Faculty Strength

122

Financial Allocation and Utilization

Finds allocated = Rs.40,37,35,834/-

Funds utilized = Rs.40,37,35,380/-



DESHBANDHU COLLEGE

Brief History

Deshbandhu College, a fully maintained constituent college of University of Delhi, was established in the year 1952 by Ministry of Rehabilitation, in the memory of Lala Deshbandhu Gupta, who was a veteran freedom fighter. College has a distinction of being the oldest and the largest co-educational institution in South Delhi. From a Prep college for Arts and Sciences, college offers eighteen undergraduate and seven post-graduate courses, catering to over 5000 students annually. College has a sprawling campus with more than sixty percent green area. Green campus with initiatives like installation of solar panels (with a capacity of 72 kW), PNG for laboratories, rainwater harvesting, LED lighting and 5 STAR and VRF air-conditioning and integrated composting facility have recently been taken. The college is 100% accessible for differently-abled.

Major Activities and Achievements

College was ranked 28th in the NIRF 2022 (all India college category). In the Science category colleges, college was ranked 48th, 53rd in Commerce category and 75th in Arts category in the India Today 2022 rankings. College was awarded with “Star College Scheme” by the Department of Biotechnology, Government of India in which five departments have been benefitted. The i-4 Center (Inspire Interdisciplinary Ideas for Innovations) has been established by the college to create, nurture and promote interdisciplinary research and innovations. College faculty members have a strong research profile with more than 200 research papers published in SCI/SCOPUS/UGC CARE indexed journals and research grants. College Library is one of the largest in Delhi University.

College utilized Learning Management System to create and deliver teaching-learning resources, online classes, assignments, projects and monitoring student progress. This has also enabled timely intervention for resolving student queries, difficulties and problems. A dynamic and credible feedback mechanism has been developed which captures the opinions of and from our stakeholders. Significant measures are taken after its thorough analysis. The Student Management System caters to all student-related information by providing login credentials for administrator, faculties and students to access attendance, internal assessment, continuous

evaluation, filling up examination forms and student fees deposition.

Honours/Distinctions

Dr. Indrakant K. Singh Associate Prof., Department of Zoology awarded with excellence award for in service teacher in colleges (under category below 45 years).

Prof. Sushila Singhal, Department of Chemistry awarded with excellence in Map Reading Skills by NCC.

Prof. Bajrang Bihari Tiwari, Department of Hindi, awarded with Ramvilas Sharma Alochna Samman 2021.

Students with Distinctions

Mukesh Kandpal was awarded the Lala Deshbandhu Gupta, Gold Medal for Securing 1st position at college level in B.Sc. (Hons) Botany

Sarabjeet Chakraborty was awarded the Lala Deshbandhu Gupta, Gold Medal for Securing 1st position at college level in B.Sc. (Hons) Chemistry

Suman Gupta, was awarded the Lala Deshbandhu Gupta, Gold Medal for Securing 1st position at college level in B.A. (Hons) Hindi

Abhishek Mishra, was awarded the Lala Deshbandhu Gupta, Gold Medal for securing 1st position at college level in B.A. (Hons) History

Chetan Sharma was awarded the best all-rounder Medal for Securing 1st position at college level in B.Sc. (Hons) Bio-Chemistry

Publications

Aggarwal, R., Kumar D., Kaur, B. (2021). Stability and zero velocity curves in the perturbed restricted problem of 2+2 bodies. Applications and Applied Mathematics: An International Journal. 16(2): 1010 – 1028.

Jain, S., Paliwal, A., Gupta, V., Tomar, M. (2022). Smartphone integrated handheld Long Range Surface Plasmon Resonance based fiber-optic biosensor with tunable SiO₂ sensing matrix. Biosensors and Bioelectronics. 201(1): 113919.

Keshan, R., Ragini, Singh I. K., Singh A. (2021). Genome wide investigation of MAPKKs from *Cicer arietinum* and their involvement in plant defence against *Helicoverpa armigera*. Physiological and Molecular Plant Pathology. 115(1): 101685.



Lamba, P., P. Singh P., P. Singh Bharti, A. Kumar M. Gupta, Y. Kumar. (2022). Recent advancements in supercapacitors based on different electrode materials: Classifications, synthesis methods and comparative performance. *Journal of Alloys and Compounds*, 48(1), 103871.

Mehta, S., Chakraborty, A., Roy, A., Singh I. K., Singh A. (2021). Fight Hard or Die Trying: Current Status of Lipid Signaling during Plant–Pathogen Interaction. *Plants*. 10(6): 1098.

Saini J., Sharma M., Kunar, B. K. (2021). Role of Ce Concentration on the Structural and Magnetic properties of Functional Magnetic Oxide particles. *RSC Nanoscale Advances*. 4(31): 6074-6087.

Singh A., Tiwari, S., Pandey, J., Lata, C., Singh I. K. (2021). Role of nanoparticles in crop improvement and abiotic stress management. *Journal of Biotechnology*. 337(1), 57-70.

Verma, P., Hassan, M. I., Singh A., Singh., I. K. (2021). Design and development of novel inhibitors of aldo-ketoreductase 1C1 as potential lead molecules in treatment of breast cancer. *Mol Cell Biochem*. 476(1): 2975-2987.

Singh A., Mehta, S., Yadav, S., Nagar, G., Ghosh, R., A. Roy, A. Chakraborty and I. K. Singh. (2022). How to Cope with the Challenges of Environmental Stresses in the Era of Global Climate Change: An Update on ROS Stave off in Plants. *Int. J. Mol. Sci*. 23(1):1.

Tanvi, R., Aggarwal, A., Rajput, M., Sajid. (2021). Modeling the Optimal Interventions to Curtail the Cluster Based Covid-19 Pandemic in India: Efficacy of Prevention Measures. *Applied and Computational Mathematics*. 20(1): 70-94.

Research Projects

Life Sciences Research Board, DRDO, Ministry of Defence sanctioned project in the year 2021. Project entitled, 'Design and development of smart nanomaterial-based biosensors for pesticide detection in food.' Sanctioned Amount Rs. 26,87,850/-.

SERB-Department of Science and Technology sanctioned project in the year 2021. Project entitled, 'Exploration of earth abundant metal(s) [Ni, Co and Fe] based MOFs as electrocatalysts for water splitting

and Oxygen reduction reactions.' Sanctioned Amount Rs. 18,30,000/-.

Indian Council of Medical Research (ICMR) sanctioned project in the year 2021. Project entitled, 'Identification of the molecular mechanism of mechano- transduction pathways that act upstream of Hippo Pathway for treatment of breast cancer.' Sanctioned Amount Rs. 41,26,200/-.

Seminars Organized

Seminar entitled, 'Design and development of efficient and sustainable synthetic methods for biologically important heterocycles', delivered by Prof. Hiriyakkanavar Ila from Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru on 31 January 2022.

Seminar entitled, 'An insight into Sol-Gel Technology: A gateway for the development of nanomaterials and strong materials for various applications', delivered by Prof. Shivani B. Mishra, from University of South Africa, South Africa on 31 January 2022.

Seminar entitled, 'Ashoka: History and Memory' delivered by Prof. Nayanjot Lahiri, Prof., Department of History Ashoka University on 11 March 2022.

Seminar entitled, 'Myth and History' delivered by Prof. Irfan Habib, Prof., (Emeritus) Aligarh Muslim University on 8 March 2022.

Seminar entitled, 'Graph Theory and its Applications' delivered by Prof. V.D. Sharma Prof. at IIT Gandhinagar on 15 September 2021.

Conferences Organized

Organized an International Conference entitled, 'Cancer Biology: Advances and Challenges', on, 2021 November 11.

Seminar/Conference Presentations

Indrakant K. Singh presented a paper entitled, 'Using Microarray Data, Found Novel Link in the Hippo Pathway and Identified Cancer- Specific microRNAs To Cure Breast Cancer' in "2nd International RMBPD Colloquium" organized by Department of Zoology, University of Delhi held during 2022, February 24-25.

Prabha Arya presented a paper entitled, 'In silico analysis of the compounds for the effective treatment of breast and lung cancer subtypes' in the Health 2021 Virtual International Conference on "Cancer Biology on: Advances and Challenges" organized by Department of Zoology, under the aegis of DBT Star College Scheme and IQAC, Deshbandhu



College, University of Delhi during 2021, November 11-13.

Prabha Arya presented a paper entitled, 'Prospects of epigenetic changes of DNA in blood to diagnose breast cancer: early diagnosis of breast cancer' in the Health 2021 Virtual International Conference on "Cancer Biology on: Advances and Challenges" organized by Department of Zoology, under the aegis of DBT Star College Scheme and IQAC, Deshbandhu College, University of Delhi during 2021, November 11-13.

Vanshika Lumb presented an e-poster entitled, 'Reviewing the various roles of synaptic pruning' in the International Conference "Horizons in Molecular Biology 2021" held during 13 to 16 September 2021. Indrakant K. Singh presented a paper entitled, 'Omics approach for screening, analysis, and predictional elucidation of deleterious missense mutation of ACVR1 gene' during the "2nd International RMBPD Colloquium" organized by Department of Zoology, University of Delhi held on 24 and 25 February 2022. Indrakant K. Singh presented a paper entitled, 'Computational screening and in vitro analysis of therapeutic potential of phytochemicals in neuroblastoma disease' during the "2nd International RMBPD Colloquium" organized by Department of Zoology, University of Delhi held on 2022, February 24-25.

Indrakant K. Singh presented a paper entitled, 'Identification of Novel Myeloid Cell Leukemia 1 (MCL-1) Inhibitors: An Omics Perspective' during the "2nd International RMBPD Colloquium" organized by Department of Zoology, University of Delhi held on 2022, February 24-25.

National/International MoUs Signed

MoU signed with Pettigrew College of the Manipur University

MoU signed with Prevention of Sexual Harassment & Child Abuse (POSHCA)

MoU signed with Retailers Association's Skill Council of India (RASCI)

MoU signed with Healthcare Sector Skill Council (HSSC)

MoU signed with Tourism & Hospitality Skill Council (THSC)

MoU signed with Bureau of Energy Efficiency (BEE)

MoU signed with Movie and entertainment Skill Council (MESCI)

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MoU signed with Ramanujan College, University of Delhi

MoU signed with Hansraj College, University of Delhi
MoU signed with Medanta Hospital, Gurugram

Other Inter-Institutional Collaboration

Collaborations with Hansraj College, University of Delhi for conducting following faculty development programs (FDP): organized an FDP on Bhartiye Bhasayein: Dasha v Disha, FDP on Computational Approach to Drug Discovery and an FDP on Graph Theory and Its Applications

Placement Details

475

33.31%

Number of Companies visited for campus recruitment

53

Extension and Outreach Activities

A three-day certificate workshop on Yogasana and Pranayama was organized under the Vidya Vistar Scheme. A lecture cum virtual lab visit on the topic, 'Microbiological Testing of Food' was organized for college students. Placement cell of the college organized a 'Recruitment Quiz'. Talk on Prevention of Sexual Harassment in College was also organized to sensitize students and other stakeholders. Various other lectures / seminars were organized for the college students: Seminar on climate change and future of the world, Seminar on Nadi ko jano., Lecture cum virtual lab visit on Landfill: A Public & Environmental Health perspective, Webinar on "Reflections of Indian Knowledge system: Heritage, Culture, Society and Science, Webinar on "Role of Bhagini Nivedita in Freedom Movement, Leadership series, Investor Education Programme, Workshop on Karma Yoga, The Wildlife Week: Wild-O-Vigus, Swachh Bharat Abhiyan, Aazadi ka Amrit Mohatsav, Cleanliness Drive, Plantation Drive, Swachhata Pakhwada, Blood Donation Camp

Library Development

College library has undergone a major transformation and upgradation in the past one year. The flooring of the library has been completely changed. New air-conditioned reading rooms for teachers and an air-conditioned seminar room have been added. The library has created a dedicated space for an air-conditioned e-library through which

all faculty and students can access all online e-resources and subscribed databases. The college library procured 1877 new books and also subscribed to many journals and magazines. The library has also installed SS railings on staircase for added safety.

Faculty Strength

229

Financial Allocation and Utilization

Fund allocated = Rs. 77,30,37,503/-

Fund utilized = Rs. 83,36,40,985/-

DR. BHIM RAO AMBEDKAR COLLEGE



Brief History

Bhim Rao Ambedkar College came into existence in the year 1991 during the birth centenary year of Bharat Ratna Baba Saheb Dr. Bhim Rao Ramji Ambedkar and celebrated its Silver Jubilee in the year 2016. The college motto, 'Atto Deepo Bhava' which means 'Be your own light', motivates all to work hard with dedication and integrity, to enlighten ourselves and contribute to the society's welfare while driving strength from the teachings of Baba Saheb who saw education as a potent tool which could equally empower every citizen. As the college is named after him, we continually strive to emulate his vision and help empower the future generation build a holistic, inclusive and progressive society of Modern India.

College has evolved from a humble beginning with few courses, faculty and students with the objective to inculcate honesty and dedication. College encourages its faculty and students to participate in seminars and conferences and promote a holistic teaching-learning environment. Teaching-learning is facilitated by college infrastructural facilities including four fully functional computer labs, well-stocked computerized library and an auditorium equipped with multi-media facility. In order to improve IT infrastructure and teaching methodology, college has installed 19 multi-media projectors in the class rooms and computer labs.

College provides ample opportunities to the students from different streams to mingle together in

academic as well as sports, cultural and other extra-curricular activities organized through different societies and clubs. The spirit of mutual work, discipline, social responsibility towards community development and nation building is inculcated through Eco-Club, NSS, NCC etc.

College contributes towards women empowerment by organizing various activities under the aegis of its Gender Sensitization and Women Development Committee. The nature care and environmental awareness is being promoted by Eco-Club and its members. The Herbal and Rose Garden, Paper Recycling Unit etc. are the unique examples of our eco-friendly behaviour.

Major Activities and Achievements

With a total student strength of about 3409 students (girl students in good numbers) and 136 faculty members, college offers a number of Professional and Honours' Courses like Business Economics, Hindi Journalism and Mass Communication, Applied Psychology, Social work, Commerce, Economics, Hindi, Geography and History in addition to B.A.(Programme), B.Com. and Urdu as an elective subject. Three other courses are in the pipeline.

College is privileged to have WUS Health Centre in the campus and maintains a good Herbal Park which helps in maintaining healthy life. During the celebration year of Azadi ka Amrit Mahotsav, college organized many several programs in addition to carrying out all its academic activities. College



contributed to the awareness-cum-mitigation efforts of COVID-19 crisis.

Co-curricular activities such as 'Needs and Health Concerns of Elderly', 'Baba Saheb Memorial lecture', 'Maha Parinirvaan Divas', Blood Donation Camp, 'Environment Youth Parliament', and awareness about Women empowerment, gender justice and development were organized this academic year. In addition to department wise online lectures by experts, National seminars/webinars in collaboration with national and international bodies on following themes were organized: 'Azadi ke 75 Varsh: Uplabdhyan aur Chunautiya', 'Contribution of Baba Saheb Dr. Bhim Rao Ambedkar in Nation Building', 'Relevance of Mahatma Gandhi in Contemporary World', 'Covid-19 Crisis: Times Ahead', 'Post Covid Complications', 'Revolution: Let's Present Our Efforts', 'Awareness Session on Prevention of Sexual Harassment at Workplace', 'New Education Policy' and 'Impact of Climate Change and Climate Variability on Natural Resources of Himalaya'.

NSS and NCC units of college took several initiatives along with Welfare/Fee Committee, Placement Cell, IQAC Cell, Student Council, and Alumni Club. College Annual Day 2021-22 and Journal Academia provided opportunities to express cultural and academic creativity.

Students with Distinctions

Antariksh Garg of B. Com (Hons) III year secured I rank in college.

Sushma of B.A. (Hons) HJ&MC III year secured I rank in college.

Deepika Behera of B.A. (Hons) Applied Psychology III year secured I rank in college.

Ashish Sharma of B. Com (Hons) II year secured I rank in college.

Kanika Khurana of B.A (Hons) Economics II year secured I rank in college.

Publications

Dhaor, S.S. (2021). Lived Experiences of Internalized Stigma Among HIV-Positive Adults in Delhi, India. *Journal of International Quarterly of Community Health Education (IQCHE)*. 1-9: doi: 10.1177/0272684X211022580.

Gauttam, R. (2021). Population Energy Consumption and Climate Change: A Case study of India.

Vidyabharati International Interdisciplinary Research Journal. 8(Special issue).

Kumar N., Udah, H., Francis, A., Singh S., Wilson, A. (2021). Indian Migrant Workers' Experience during the Covid 19 Pandemic Nationwide Lockdown. *Journal of Asian and African Studies*. 56(6): 1-21.

Manish, K. (2021). Species richness, phylogenetic diversity and phylogenetic structure patterns of exotic and native plants along an elevational gradient in the Himalaya. *Ecological Processes*, 10(64).

Prasad, R. (2021). Geomorphology and Its Different Parameters in the Flood Prone Lower Gandak Plain. *Geomorphology and Its Different Parameters in the Flood Prone Lower Gandak Plain*, 9: 74-85.

Purshottam. (2021). Mode of digital transaction: A Challenge to Indian Rural Society. *Anvesak*. 52(1).

Singh A.P. (2021). Social Responsibility of Higher Educational Institutions during Covid-19 Pandemic. *International Journal of Human Development and Information Systems (IJHDIS)*. 14(1): 119-138.

Vasudeva, S. (2021). Bibliometric Analysis of Behavioural Finance Using Biblioshiny. *Indian Journal of Economics and Business (IJEB)*. 20(4).

Yadav, R. (2021). राज्य विश्वविद्यालयों में ऑनलाइन मीडिया शिक्षा की चुनौतियाँ: संकाय सदस्यों का दृष्टिकोण. *Shodh Sanchar Bulletin*, 11(41).

Journals

B.M. Dash. (2017). *Academia*. Bi-annual, 2(1)

Seminars Organized

Seminar entitled, 'Deconstructing the Boundaries between Mental Health and Psychology' delivered by Prof. Anand Prakash, Prof. and Former Head, Department of Psychology, University of Delhi on 6 October 2021.

Seminar entitled, 'Relevance of Mahatma Gandhi in Contemporary World' delivered by Shri Rajendra Singh Col. On 2 October 2021.

Seminar entitled, 'Environmental Issues & Their Solutions' delivered by Ms. Sanchita Jindal who is a Former Adviser of Ministry of Environment, Forest and Climate Change, Government of India and also by



Dr. Parmeshwar Arora, a Senior Consultant at Sir Ganga Ram Hospital, Delhi on 5 June 2021.

Seminar entitled, 'Social Films of Nehruvian Era' delivered by Dr. Ravikant who is an Associate Prof. at Centre for the study of Developing Societies (CSDS) on 25 January 2022.

Seminar entitled, 'Rabindranath Tagore: Role of India's Freedom Struggle and Rejuvenating Education' delivered by Prof. Prashant K Ghosh who is a Prof. at Department of Social Work, Visva Bharti University and by Mr. Babar Ali, who is a Founder of Ananda Shiksha Niketan on 26 October 2021.

Conferences Organized

A three-day National virtual conference entitled, 'Environment and Social Development Association (ESDA)' was organized on the occasion of World Environment Summit 2021 on 1 October 2021.

One day National conference entitled, 'हिन्दी पत्रकारिता के विशद आयाम' was organized by the Department of Hindi on 21 December 2021.

Seminar/Conference Presentations

Rakesh Yadav presented a paper entitled, '21वीं सदी में मीडिया शिक्षा की उपयोगिता: मीडिया छात्रों का दृष्टिकोण:' in the World's First 10 Days Digital Live International Conference Second Edition on Information Communication and Artificial Network – (ICAN-4) organized on 2021, July 05.

Mr. Purshottam presented a paper entitled, 'Impact of COVID-19 pandemic on MSMEs' in the National Conference on 'Road to Recovery: New Dimensions and Challenges for Indian Economy' held at S.D. College, Panipat which was sponsored by Higher Education Department, Haryana on 2021, October 30-31.

Ms. Diljeet Kaur presented a paper entitled, 'The Emergence of The Solar Energy Market: Covid-19 Challenges and Future Prospects' in the International Marketing Conference-I which was organised by IIM Shillong on 21 and 22 April 2021, April 21-22.

Dr. Ritu Aggarwal presented a paper entitled. 'Effects of Environment on Mental health' in the World Environment Summit (National Conference) organized by ESDA Delhi at India International Centre, New Delhi during 2021, October 01-03.

Dr. Neha Arora presented a paper titled entitled, 'Persistence and switching among entity theorists: A study of adaptation among senior secondary school students in the national capital region', at the Comparative Education society of India on 2021, December 17.

Dr. Jitendra Kumar Nagar presented a paper entitled, 'National updates on Hindon River, a tributary of Yamuna' in the World Environment Summit 2021 (International Conference) which was jointly organized by Environment and Social Development Association, BRAC, University of Delhi, NEERI-CSIR, Amity University, GD Goenka University Gurugram, Australian National University and others institution at India International Centre, New Delhi from 1 to 3 October 2021, October 01-03.

Ningombam Victoria Chanu presented a paper entitled, 'Mapping Traditions Through Folk Songs: The Case of Mynyo of Korea and Khunung Eshei of Manipur' in an International Webinar on "Multifaceted India-South Korea Relations: Exploring New Vistas for Deeper Collaboration" organized by Researchers' Association for the Study of Korea (RASK) in collaboration with Jamia Millia Islamia & DFEL, Central University of Jharkhand on 2021, November 13.

Dr. Avtar Singh presented a paper entitled, 'Inclusive, Equitable and Quality Education: An Analysis of NEP-2020' in the 9th Indian National Congress jointly organized by Matru Sewa Sangh Institute of Social Work, Nagpur, Maharashtra Association of Social Work Educators (MASWE) and National Association of Professional Social Workers in India (NAPSWI) at Matru Sewa Sangh Institute of Social Work, Nagpur from 28 to 30 October 2021, October 28-30.

Placement Details

49

55%

Number of Companies visited for campus recruitment

18

Extension and Outreach Activities

During COVID pandemic, NCC cadets of the college organized a COVID relief program entitled, 'Plasma Army' and worked towards smooth functioning of supply chain and performed various other functions



such as providing verified leads, maintaining lockdown norms and duties in COVID shelters which saved many lives. 'Make in India' awareness drive was also conducted by NCC cadets of the college on 12 October 2021.

Cultural Committee organized an annual cultural festival 'Chetna' and 'Malhar' on 28 and 29 January 2022 encompassing various competitions such as poster-making, photography, Classical Dance, Western Dance, Monoact and mime, Ramp Walk, Instrument Playing and Singing. A 'Shastriya Sangeet Evam Nritya: Bharat ki Ek Dharoha', online workshop series was organized between 10 to 15 November 2021 in which well-known artists, namely, Sh. Sunil Kant Saxena, a renowned Sitar player; Dr. Sridhar Dwivedi, Senior consultant, National Heart Institute, Delhi; Guru Satish Shukla, a Kathak Artist from Lucknow Gharana and Smt. Anjana Iyer, a Dhrupad teacher and performer participated and gave their valuable insights.

NSS unit of the college celebrated 'Azadi ka Amrit Mahotsav Fit India Freedom Run 2.0' by organising a Fitness Rally on 11 September 2021. NSS unit also organized a Quiz Competition on the theme 'Gandhi's Non-violence to freedom Movement' on the occasion of Gandhi Jayanti on 2 October 2021. A week long Swachhta Pakhwada was organized from 4 to 12 August 2021, which included following activities and events – (i) Plantation Drive, (ii) Cleanliness Drive, (iii) Kabaad se Jugaad, (iv) writing competition on clean India, (v) Poster making and Field awareness regarding cleanliness in Sunder Nagri. Students of NSS unit organized and celebrated Clean India Campaign on 27 October 2021 in collaboration with NYKS in which 2 plugging drives, one virtual plastic collection activity and an offline nukkad natak on the theme 'Awareness on Cleanliness and Waste Management' were conducted.

College Red Ribbon Committee conducted a short story writing competition on 'Corona Katha' on 31

May 2021 and organised webinars to celebrate "National Unity Day" and "National Youth Day" on 31 October 2021 and 12 January 2022 respectively. Ek Bharat Shreshtha Bharat Club organized a Curiosity Quiz Contest based on virtual tour of Sikkim on 14 August 2021. Debatic committee organized a floral tribute ceremony and a lecture on the topic "Contributions of Baba Saheb Dr. Bhim Rao Ambedkar in Nation Building" on the occasion of Maha Parinirvan Diwas on 6 December 2021.

Library Development

The entire Library has floor wise signages and is well equipped with books and extended facilities like OPAC (through which registered users can check their library accounts) and N-LIST (for finding E-books and E-Journals) of INFLIBNET. College added 2066 new books and subscribed to around 54 periodicals (17 English and 14 Hindi) in addition of 23 newspapers (8 English, 14 Hindi and one Urdu) on the recommendations of TICs / Library Committee this academic year. Meritorious and economically weaker students have been provided books under SAF scheme. Special facilities like CCTV surveillance system, separate AC cabin with computer facility and an online membership of 'Sugamya Pustakalaya' are available for Divyang students. Separate sitting space has been earmarked for reading of Braille study material provided by University of Delhi. Special book collection of Dr. Ambedkar, Gandhi Ji, Nehru Ji and other personalities are available in the Library.

Faculty Strength

136

Financial Allocation and Utilization

Fund allocated = Rs. 39,39,50,923/-
Fund utilized = Rs. 38,12,21,995.68/-

DURGABAI DESHMUKH COLLEGE OF SPECIAL EDUCATION (VISUAL IMPAIRMENT)

Brief History

The College was established in 2006 to conduct B. Ed (Special Education) degree programme with a

specialization in teaching the visually impaired under the Department of Education, University of Delhi and



recognized by the Rehabilitation Council of India. The College is established and run by the Blind Relief Association, Delhi, a premier non-government organization. The College has permanent recognition from the University of Delhi, the University Grants Commission (UGC) as well as the Rehabilitation Council of India. It receives partial financial support from the National Institute for Empowerment of Persons with Visual Disabilities (NIEPVD) an apex body under the Ministry of Social Justice and Empowerment, Government of India. The College has an intake capacity of 30-35 students only per academic session.

Major Activities and Achievements

The College is the first and only college under the University of Delhi which has been established to offer teacher education training for Children with Special Needs (CWSN). A large number of trainees passed out from college are working as special teachers in inclusive schools in Delhi and other states of country.

Honours/Distinctions

Dubey, S, K. (2021). "Visual Impairment: Our Concerns" Kanishka Publishers and Distributors, New Delhi, June. 2021. ISBN 9789391450076

Dubey, S, K. (2022). "Disability Curriculum" Kanishka Publishers and Distributors, New Delhi, Jan 2022. ISBN 9789391450243

Dr. Pubali Agarwal has contributed as a Domain Expert in the Research Project entitled, "Identification of jobs for the Visually Impaired Persons in the Private Sectors" under AICB and JIMS, Delhi, (March 2021-June 2022).

Dr. Pubali Agarwal has translated a chapter in Hindi entitled "Teaching of Independent Living Skills" from the book "Visual Disability: A Resource Book for Teachers, vol.2", Published by, NIEPVD, October, 2021.

Students with Distinctions

S.No.	Name of Students	Class
1	Ms. Anupam Verma	Second Year
2	Ms. Ankita Sehdev	First Year
3	Ms. Vibha Gupta,	Second Year



Seminars Organized

A seminar titled, 'Importance of Braille and its significance for Visually Impaired', was organised on Braille Day, 04 Jan. 2022, with the resource person, Prof. S.R Mittal, Former Prof, CIE, University of Delhi. A seminar titled, 'The Adapted Physical Education for Children with Visual Impairment' was organised on 30 March 2022, with the resource person, Mr. K.C. Pande & Mr A. David, Former Vice Chairperson (IBSA) & General Secretary (IBSA).

Seminar/Conference Presentations

Dr. Swati Sanyal

Dr. Sanyal was the Resource Person in an Online CRE programme on 'Role of special education in National Education Policy-2020 & orientation towards inclusion', organized on 09 June 2021 by SISER, Bhubaneswar, a collaborated institute of NIEPVD

Dr. Sanyal was the resource person for the Refresher Course for Master trainers on Inclusive Pedagogy and ICT, organized by Sightsavers from 2021, October 21-23. in Udaipur.

Dr. Sudeep Kumar Dubey

Dr. Dubey contributed to the online conduction of an entrance test by NTE, regular classes and final examinations of students of the Durgabai Deshmukh College of Special Education (V.I.)

He was a resource person in a webinar on 31 May 2021 on "Role of soft skills in the career development of persons with visual impairment" by SISER-NIEPVD, RC-Bhubneswar, Odisha

He was a resource person in a webinar on 2 June 2021 on "Educational Problems of low vision students" organised by SISER-NIEPVD, RC-Bhubneswar, Orissa (India).

He was a resource person in a CRE webinar on "Understanding different schemes for PwDs", held on 16 June 2021 by SARRTHI Institute of Developmental Studies, Sitapur (U.P.)

He was a resource person in a CRE webinar on "Understanding different schemes for PwDs", held in September 2021 by TECNIA Institute at Rohini, Delhi.

He delivered a lecture in one-day orientation on Inclusive Education for School Principals held on 2022, February 23.

Dr. Pubali Agarwal

Dr. Agarwal was invited as a speaker in a webinar on "Inclusive Education for Visually Impaired Children: Myth and Reality" organised by the Indian National Young Academy of Science (INYAS), Kolkata-

Bhubaneswar Chapter, held on 17 July 2021. She was an invited speaker at the National Conference on Inclusive Online Education on "Independent Living Skills in Promoting Inclusive Education" organised by NIEPVD, Dehradun, on 2021, August 25.

Other Inter-Institutional Collaboration

The College has close collaboration in terms of delivering Guest lectures, Paper setting, and Examinations, with Jamia Millia Islamia University, IGNOU, RCI, NCERT, SCERT, DIET, NIEPVD etc.

The Placement Details

About 50% of the trainees got employment as special teachers in special schools, regular schools and Inclusive schools. A number of visually impaired trainees got placed in various banks. Few students are also pursuing higher education such as M.A and M.Ed. (Spl. Education).

Number of Companies Visited for Campus Recruitment

Various NGOs and public/private schools from Delhi and other states requested special teachers from the College.

Extension and Outreach Activities

The College organized a community awareness programme on Visual Impairment "Just Enough to Know Us Better" on the Blind Relief Association campus held from 11-13 March 2022. Students prepared and played a Nukkad Natak on disability awareness.

Library Development

The Learning Resource Centre (Library) of the College has rich information resources which include Print Books, Braille Books, Talking Books, Tactile Books, Conference Proceedings/ Research Bulletins, back volumes of journals, CDs/DVDs, E-Resources on special education, education, particularly in visual impairment area.

The LRC offers the WebOPAC facility which is in Excel format and is in accessible manner along with a separate catalogue of 134 talking Books (DAISY and MP3 format), 396 Braille Books and 5 Tactile Books for students with visual impairment. All these can be accessed through its website www.lrcddcse.wordpress.com. LRC also offers a thousand numbers of e- Resources (E-Books and E-



Journals) through the NLIST programme offered by the INFLIBNET centre. Total Number of Books (Print + Braille): 4560 Print Journals on Special Education as well as Education: 15 Total Number of Books added during 2021-2022: 37

Faculty Strength

4

Financial Allocation and Utilization

No grant received from either the UGC or the University of Delhi.

DYAL SINGH COLLEGE (DAY)



Brief History

Dyal Singh College (Morning) owes its origin to the extreme generosity and foresight of Sardar Dyal Singh Majithia, founder of 'The Tribune' and 'Punjab National Bank', who willed his vast wealth in 1895 for the setting up of an Education Trust for a secular college. Consequently, Dyal Singh College was established at Lahore in 1910. Post partition the Educational Trust opened a camp college in Delhi which was handed over to the Dyal Singh College Trust on 31 March 1959. It started functioning in the capital at Rouse Avenue as a constituent college of the University of Delhi with effect from 5 August 1959. College moved to present location, at Lodhi Road, on 16 October 1962. This campus was built by Sardar Bahadur Sir Sobha Singh builder of Lutyen's Delhi and covers an area of over 11 acres. Dyal Singh College is imparting education to over 6000 students in 24 courses (including 17 Honours, 5 Programme & 2 Post-Graduate courses) through 19 departments (consisting of Arts, Commerce, Social Sciences, Mathematical Sciences, Computers and Sciences).

Major Activities and Achievements

Dyal Singh College (Morning) was ranked 29th in the NIRF ranking under college category in 2021. The college celebrated its foundation day on 5 August 2021 with a lecture on "Intellectual Property Rights and their Relevance to Science and Society" organized by IQAC. A one-week Interdisciplinary Online Faculty Development Program was conducted from 26 to 31 July 2021. A number of webinars, seminars and conferences were organized by different departments, cells and societies, which included talks related to specific subjects and topics of general importance like Global Tiger Day, Environmental Issues, Climate Change, Gender Equality, Mind Talks, Women empowerment, etc. The NSS and NCC units of the college organized events to celebrate International Yoga Day, International Women's Day, Pride Month, Vigilance Awareness Week, Kargil Vijay Diwas, Hindi Diwas, World Environment Day, Independence Day, Republic Day, Youth Voter Festival and Constitution Day. "Unnat Bharat Abhiyan" was launched on 14 December 2021 and lectures and events were organized on "Nadi ko Jano". The Art and Culture Society organized the Annual Cultural Festival -



PRİYADARSHANI'22. The college has started a DSC course on Sustainability Forum (An IQAC Initiative) with a focus on water management, waste management, energy conservation and green campus. Tree census of the college campus was also carried out.

Honours/Distinctions

Dr. Chitrlekha received S. K. Mahajan Award 2021 as Collaboratively Understanding Biology Education (CUBE) member, TIFR, Mumbai

Prof. Ravinder Singh was selected as Fellow, Indian Institute of Advanced Studies (IIAS), Shimla

Dr. Himanshu Sharma received Commandant's Bronze Medal

Publications

Abhay, R.K., Sharma M. (2022). Housing shortage in a mega city: a spatiotemporal analysis of NCT of Delhi, 2001–2011. *Geo Journal*. <https://doi.org/10.1007/s10708-022-10597-5>.

Chaudhary, N., Nain, A.K. (2021). Correlation between intermolecular interactions and excess properties of polyethylene glycol 400 + benzyl methacrylate binary mixtures at temperatures from 293.15 to 318.15 K. *Journal of Molecular Liquids*. 340: 116866.

Chaudhary, N., Nain, A.K. (2022). Densities, ultrasonic speeds, refractive indices, excess and partial molar properties of polyethylene glycol 200 + benzyl methacrylate binary mixtures at temperatures from 293.15 to 318.15 K. *Journal of Molecular Liquids*. 346: 117923.

Kumar V., Sharma A., Tripathi V. (2022). Physiological effects of food availability times in higher vertebrates. *Journal of Experimental Biology*. 3(225): 239004.

Garg M., Goel, A. (2022). A systematic literature review on online assessment security: Current challenges and integrity strategies. *Computers and Security*. 113: 102544.

Goyal, P., Singh M., Kumar P., Gupta, A. (2021). Chol-Dex nanomicelles: Synthesis, characterization and evaluation as efficient drug carriers for colon targeting. *Carbohydrate Research*. 500: 108255.

Goyal, P., Kumar P., Gupta, A. (2021). Amphipathic methoxy-polyethylene glycol-curcumin conjugate as effective drug delivery system useful for colonic diseases. *Colloid and Polymer Science*. 299: 1757-1766.

Maurya, S. K., Bhattacharya, N., Mishra, S., Bhattacharya, A., Banerjee, P., Senapati S., Mishra, R. (2021). Microglia Specific Drug Targeting Using Natural Products for the Regulation of Redox Imbalance in Neurodegeneration. *Frontiers in Pharmacology*. 12: doi: 10.3389/fphar.2021.654489.

Rani, S., Sanghi, S., Agarwal, A., Kumar R., Singh O. (2022). Crystal structure, magnetic and dielectric properties of Er-doped BiFeO₃ ceramics. *Applied Physics A*. 128: 576.

Varshney, V., Kumarasamy, S., Mishra, A., Biswal, B., Prasad, A. (2021). Traveling of extreme events in network of counter-rotating nonlinear oscillators. *Chaos* 31: 093136.

Research Projects

Central Council for Research in Homoeopathy (CCRH) sponsored project in the year 2017 for 4 years and entitled, "Physicochemical Studies of Homoeopathic Drug Formulations by using Volumetric, Acoustic, Viscometric, Optical and Conductometric Measurements". Sanctioned for an amount of Rs.44.768 lakhs.

Indian Council of Social Science Research (ICSSR) funded project under IMPRESS scheme in the year 2019 for 2 years and entitled, "Agricultural Development, Land Degradation and Rural Sustainability in Border Areas of Uttar Pradesh: A Case Study of Siddharthnagar District". Sanctioned for an amount of for Rs. 8.5 lakhs.

Indira Gandhi National Centre for the Arts (IGNCA) sponsored project in the year 2020 for 1 year and entitled, 'Bhojpuri Lokgeet'. Sanctioned for an amount of for Rs. 8 lakhs.

Science and Engineering Research Board (SERB)-DST sponsored project in the year 2020 for a period of 3 years, "Extrapolation in some Labesgue type space". Sanctioned for an amount of 6.6 lakhs

Indian Council of Social Science Research (ICSSR) sponsored project in the year 2019 for two 2 years, "Concept of Kautilya's Governance: A Re-examination of Hindu Political Thought-in-Contemporary Context". Sanctioned for an amount of 3.8 lakhs.



Seminars Organized

Dr. Ashwin Siwal, Faculty of Law, University of Delhi, Intellectual Property Rights:

Copyright and Biopiracy Issues, IPR, 17-09-2021

Shri Anand Sharma ADG (retd.) RMC, IMD, New Delhi, Environmental Issues in India, Environment protection, 2021, August 19.

Dr. Poonam Phogat, Prof., Department of Psychology, Be kind to your mind, Mental Health, 2021, October 26.

Dr. Kaushal Panwar, Prof., School of Humanity, IGNOU, Women who Inspire Us, Women Development, 2022, January 10.

Prof. Monika Kannan, Head, Department of Geography, Sophia Girls College, Ajmer, Gendered Spaces: Perspectives and Challenges, Human Geography, 2021, September 10.

Conferences Organized

Workshop on "Women Empowerment and their Leadership in Society", 25-03-2022

Workshop on "Emerging Business Models", 06-09-2021

Workshop on "Data Analysis and SPSS", 08-04-2021

Workshop on "Climate Change Mitigation: Relevance of Gandhian Approach", 30-01-2022, Gandhi Smriti and Darshan Samiti

Workshop on "Writing Research Papers", 29-11-2021

Seminar/Conference Presentations

Prof. Jasleen Kaur gave an oral presentation on "MICROBIAL BIOCONTROL STRATEGIES OF PLANT PATHOGEN", 6th Annual International Conference of Indian Network for Soil Contamination Research (INSCR), 2021, November 15-18.

Dr. Rajesh Kumar Abhay presented a paper on "Analysis of resilience of agricultural land using a factor analytic approach in Siddharthnagar district, Uttar Pradesh", at the National Conference (Online) on Population, Environment, Health, Sustainable Development Goals and Appropriate Technologies: Post Covid-19 Scenarios' 43rd IGC-National Association of Geographers, India, organized by Department of Geography, Institute of Science, Banaras Hindu University, Varanasi, 2021, October 28-30.

Dr. Neeraja Sood gave an oral presentation on SARS Covid-2 vaccines- Glimmer of Hope" at 6th Annual Conference of INSCR on "Microbes in sustainable development", 2021, November 15-18. in collaboration with University of Delhi.

Prof. Jasleen Kaur gave an oral presentation on "CLIMATE CHANGE AND ITS IMPACT ON BIODIVERSITY AND ECOSYSTEMS", International Conference on Climate Change- An Imminent Global Emergency-2021, 2021, December 16-18.

Dr. Rajesh Kumar Abhay presented a paper on "Spatio-temporal patterns of housing shortage in urban India: A case study of NCT-Delhi", at the 21st Association of Punjab Geographers International E-Conference 2021, on Agriculture, Food Security, Health and Wellbeing organized by Department of Geography, Kurukshetra University, Kurukshetra, 2021, December 30-31.

Dr. Nishant Kumar presented a paper on "Gandhi's vision of non-violent economy as the panacea to environmental exploitation" in the two-day National seminar on "Climate Change Mitigation: Relevance of Gandhian Approach", 2022, January 29-30 Dyal Singh College, University of Delhi.

Dr. Neeraja Sood Presented a paper titled "GM Crops: Need of the hour", in the conference on "Sustainable Agriculture: Negotiating Tradition and Modernity", 2021, August 12-14 at Centre for Research, Maitreyi college, University of Delhi

Dr. Ayesha Irfan presented a paper, "Existential Creativity and Reflections on the pandemic and war in Ahmed Ali's Twilight in Delhi and Intizar Hussain's Basti", at the SALA conference held on 2022, March 11-12.

Dr. Nishant Kumar gave a talk on "The politics of proscription: Censorship Laws and its implementation in colonial India", at International Conference organised by University of Hyderabad and CSDS New Delhi, November, 2021, November 17.

Dr. Swati Thakur presented a paper "Urban Agricultural Practices as Pathway to Sustainability: Case Study of residential areas of Jaipur city" at International Conference on "Future Challenges and Sustainable Development Goals: Science to Policy



Frame Work", 2021, April 16-18 organised by ICDP, Shaheed Bhagat Singh College, University of Delhi.

National/International MoUs Signed

With National Institute of Immunology (NII), JNU under Science Setu Program

Other Inter-Institutional Collaboration

Collaboration with Central Council for Research in Homoeopathy (CCRH), Ministry of Ayush

Student under Exchange Program (Inbound/Outbound)

one student (M. Sc dissertation work)

Placement Details

114

17.53%

Number of Companies visited for campus recruitment

117 (KPMG Global Services, Acies Consulting LLP, Willis Towers Watson, EY GDS, Wipro, ICICI Prudential, TresVista, Trueblue, ZocDoc, Visiontek Engineers, TCS, Incedo, BYJU's, Wise Finserv, NIIT, HP, Mindhouse, IFR Solutions, Cvent, MindForce Research, POSist Technologies, Learning Shala, L&T Constructions, Pratham, Aon Hewitt, StoreHippo, Decathlon, Godrej Properties, Unacademy, Holidify, Hexaware Technologies, MyCaptain, Insight Alpha, Zone Media, Capline services, Proffus, etc.)

Extension and Outreach Activities

The college unit of National Service Scheme, National Cadets Corps, Women Advisory Committee, Environment Club and Vivekanand Study Circle host a number of extension projects that contribute towards social and economic wellbeing of society. The activities of NSS unit includes: Tree Plantation Drive (28th July), Swachhta Pakhwara (19th-26th September), International Yoga Day (21st June), Fit India Freedom Run 2.0 (1st-13th September), Vigilance Awareness Week (26th Oct- 1st Nov), Health Awareness Week (HIV, TB, Breast Cancer)(13th-20th October), Blood Donation Camp (4th March), Participation in 75 Crore Surya Namaskar Mission (14th January), Road Safety Awareness Week (11th -17th January), Cleanliness drive, visit to slums, Cloth donation drive etc. About

70-80 NSS volunteers participate in each activity. These activities have direct social impact and also help in inculcating ethical and humanitarian values in students. The NCC Boys and NCC Girls wing participated in various camp/rally like Republic Day Rally, Prime Minister Rally, National War Memorial Camp, Adventure Course Camp, Ek Bharat Shreshtha Bharat Camp, Combined Annual Training Camp, Para Slithering Camp, Trekking Camp and achieved many awards and laurels. The Women Advisory Committee and The Environment Club works towards creating awareness through seminars, workshops, social media platforms etc. The Vivekananda Study Circle organized various talks reflecting on the life of Swami Vivekananda. The various departmental societies also organized a number of seminars, conferences and workshops which nurture and incline the students in becoming a socially responsible citizen.

Library Development

Library has spent Rs. 11,04,801 on the purchase of books and subscription of Journals/Magazines/Newspapers.

Total number of books added this academic year:

a. No. of Titles - 984

b. Total no. of Books – 1683

Library has renewed the membership of N-LIST Programme to access 6000+ Journals and 1,99,500+ eBooks.

College library also provides access to e-resources subscribed by the Delhi University Library System through Delhi University Network System.

Library also provides the facility to the faculty members to do plagiarism check of their research articles using Urkund Software.

Faculty Strength

380

Financial Allocation and Utilization

Funds Allocated: Rs. 57,15,00,000

Funds Utilized: Rs.72,69,66,112



DYAL SINGH EVENING COLLEGE



Brief History

Standing like a beacon in the heart of the city, Dyal Singh Evening College represents a synthesis of tradition and modernity and it is this characteristic feature of college that is also encapsulated in its motto. The rich legacy of the institution can be traced back to the vision of its founder Sardar Dyal Singh Majithia, remembered as the founder of 'The Tribune' and 'Punjab National Bank'. Hailing from Punjab, one of the great sons of India, he wanted to infuse a scientific outlook in the minds of the people ridden with blind faith and superstition. For this purpose, Sardar Dyal Singh willed his estate for the establishment of an educational trust for a secular college, and in the year 1910 Dyal Singh College Lahore was established. Post-partition, the Trust set up by him kept his vision alive in India as well. An eminent educationist, late Dewan Anand Kumar the former Vice-Chancellor of Punjab University, immortalized Dyal Singh Majithia, by establishing two academic colleges in his name: one at Karnal and the other at Delhi. College of Delhi started functioning in the capital as constituent college of the University of Delhi in the year 1959 and established itself as university-maintained institution in 1978.

College has a vibrant and spacious campus and is well connected with Delhi Metro. It has well-equipped lecture halls, extensive lawns and vast play-grounds. College boasts of a unique open air amphitheatre surrounded by majestic trees. College has a heavy-duty generator to augment the supply of electricity in the event of a power failure. The infrastructure has witnessed expansion owing to the increasing student strength. In addition to the construction of a New

Academic Block which has several class rooms, a new computer lab, a state-of-the-art Seminar Hall, and an aesthetically designed Auditorium have also been built. College offers five undergraduate courses in disciplines ranging from languages, history, political science, economics, commerce to all the major branches of arts and commerce. Presently there are around 3000 students enrolled in the college. College provides meaningful, value-based education to students. Special relaxation in cut off is given to girl students during admissions to empower them by encouraging them to pursue education while working. Similar relaxation is given to students opting to study languages like Punjabi, Urdu, Tamil, and Sanskrit to keep alive the rich diversity of cultures of our country. This is both a challenge as well as a matter of pride for the college.

Major Activities and Achievements

College started co-working in an online mode and later swiftly shifted to offline mode once the things normalized post-COVID. More than 100 faculty members were incessantly involved in academic upgradation. Over 50 articles and books were published by teachers in International and National Journals. Total 1507 books were added to the already enriched library and six teachers got promoted as Prof. this year. The college Psychologist Dr. Jaya Mohan provided counselling services telephonically and took online seminars to sensitize students in the during and post-COVID times. Over 60 online and offline events, panel discussions and webinars, seminars and fests were organized in the college by



various cells, societies, associations and forums. Students won severe accolades and prizes across diverse events. College was functional during the period of lockdown and eventually accommodated the requirements of switching back to the offline classes as smoothly as possible.

Honours/Distinctions

Dr. Poonam Gupta, Dr. Sanjay Kumar Singh Dr. Pawan Sachdeva, Dr. Abha Singh and Dr. Sajid Hussain were promoted as Prof.s.

Students with Distinctions

Sakshi Jain of B. Com (Hons) VI semester scored a CGPA of 9.162.

Shivam Gupta, of B. Com (Hons) VI semester scored a CGPA of 9.108.

Sonam of B. Com (Prog), VI semester scored a CGPA of 9.045.

Roopesh Dhoundiyal of B. Com (Hons) VI semester scored a CGPA of 9.014.

Mansi Sinha of B. Com (Hons) VI semester scored a CGPA of 8.973.

Publications

Gupta, I. (2021). Crop insurance in India-A perspective. International Online Multi- Disciplinary Journal.

Kakar, D. (2021). Application of Renewable Energy Source for Farming Sector in India. 3(6)

Kakar, D. (2021). Solar Power and thermal energy generation to transform energy market in India. 12(10).

Mridusmita, B. (2021). Bihu Festival: A celebration exhibiting the pride of Assam.

Sharma P. K. (2022). A Quarterly Referred Journal of Dialogues on Education, Assessing the Psychometric Properties of the Internet Addiction Test Among UG Students in University of Delhi.

Singh S. K. (2021). Covid-19's impact on Indian Derivative market.

Taluja, S. D. (2022). Literary Criticism and Theory II.

Taluja, S. D. (2021). Digital Feminist Interventions: A

Critical Assessment of the Pink Chaddi Campaign and #MeToo India.

Seminars Organized

Seminar entitled, 'PERMA: Positive Emotions, Engagement, Relationship, Meaning and Accomplishment, a path to well-being' delivered by Dr. Jaya Mohan on 18 May 2021.

Seminar entitled, 'Clinical Cancer Care, Are We Prepared for 3rd Wave of Covid-19' delivered by Dr. Meenu Walia, Senior Director HOD on 7 August 2021.

Seminar entitled, 'Changing Paradigms of Business' delivered by Prof. R.K Singh and Prof. H.K Dangi, from Department of Commerce, University of Delhi on 12 January 2022.

Seminar entitled, 'Consumer Behaviour: Impact Marketing' delivered by Dr. Aditya Gupta, Assistant Prof. of Marketing, Illinois University on 26 February 2022.

Seminar entitled, 'Biodiversity: The saviors of humanity' delivered by Prof. C.R. Babu, Prof. Emeritus and Project In-charge Biodiversity Parks program at University of Delhi during the 'International day of Biodiversity' on 22 May 2021.

Conferences Organized

Conference organized on 'Resistance and Revolutions: The Politics of Marginality' on 15 December 2021.

Conference organized on 'Youth for Diplomacy' on 12 March 2022.

Seminar/Conference Presentations

Ananthi V. presented a paper entitled, 'Inquilap Nadagathil Avvai' during an International Conference on Tamilology- 2021 held from 2021, November 24-28.

Mridusmita Baruah presented a paper entitled, 'The conscious youth of today and the making of Ecovillages in Assam' in the 'National Seminar on Climate Change Mitigation: Relevance of Gandhian approach' on 2022, January 29-30.

Mridusmita Baruah delivered a key note address on "Dynamics of establishing effective communication in the time of crisis" for the MBA students of SCMS Cochin School of Business on 2022, March 17.

Taluja Dudeja chaired a session at a National Seminar on the topic, "Re-presenting the Rural: Literature, Cinema & Folklore" on 13 November 2021, hosted by Chhaju Ram Memorial Jat College, Hisar, Haryana.



P. K. Sharma addressed the teachers during a Faculty Induction Programme organised by Jamia Milia Islamia on the topic, 'Work Planning and It's Management' in the month of January 2022.

Other Inter-Institutional Collaboration

College in collaboration with SEBI, Kotak Securities and National Institute of Security Market organized a ten-hour certificate program on "Financial Education" during 14 to 18 February 2022.

College in collaboration with Suman Mahila Vikas Mandal and under the aegis of SEBI- IEPF (Investor Education and Protection Fund) organized a free financial education certificate course for its students on Stock Market from 10 to 15 March 2022.

Placement Details

161.

Number of Companies visited for campus recruitment

102

Library Development

College library has consistently been contributing towards the expansion of knowledge of students and teachers alike. Library has over 70,500 books, 1507 of which have been added in the academic year 2021-22. The library also offers 14 different newspapers for its readers. A total of 27 periodicals are also available in the library. The library provides e-resources for the faculty and students by being a member of N-list, INFLIBNET, UGC and E-resource provided by the Delhi University Library System.

Faculty Strength

112

Financial Allocation and Utilization

Funds allocated: Rs. 2240 lakhs

Funds utilized: Rs. 2240 Lakhs

FLORENCE NIGHTINGALE COLLEGE OF NURSING

Brief History

Florence Nightingale School of Nursing (under GTBH) was established in 1994 and providing General Nursing and Midwifery (GNM) course, which is a three-year Diploma program and affiliated to Indian Nursing Council & Delhi Nursing Council. Examining Board of GNM program is Delhi Nursing Council. The basic aim of Diploma in GNM program is to prepare nurses with standardized educational training program in nursing to enable them to perform functions of nurse as first level position in all kinds of health care setting. College has been providing GNM training program for last 25 years with current 70+7 (10% EWS) seats.

Florence Nightingale School of Nursing, which is now upgraded to Florence Nightingale College of Nursing and now providing B.Sc. Nursing course w.e.f. 2019 onwards with same number of seats.

Major Activities and Achievements

College implemented and monitored academics of all the subjects and later conducted examinations in conformity with bye-laws of the institute and the affiliating university. College introduced new innovative methods in Teaching-Learning and

Evaluation processes. Additional infrastructural and teaching facilities were created which were required to strengthen the departments for the changing needs. College constantly monitors student's

performance and arrange for regular faculty development programs. A format was developed for performance appraisal of nursing faculty. College implemented scholarships, medals, prizes for students.

Honours/Distinctions

COVID appreciation certificate awarded to faculty members for managing COVID pandemic.

Students with Distinctions

Students with distinction at College level semester examination conducted by Delhi University
Ms. Ankita Verma of IV and V semester
Ms. Nishita of IV and V semester
Ms. Roshni Yadav of IV and V semester
Ms. Nidhi of IV and V semester



Ms. Neethu Rose Lawrence of IV and V semester Extension and Outreach Activities Established COVID CALL CENTRE in college to bridge the gap between admitted patients and relatives during COVID pandemic.

Library Development

Sixty-nine new books and eight journals were purchased during the academic year 2021-22.

Faculty Strength

23

Financial Allocation and Utilization All financial requirements are met by GTB Hospital, Govt. of NCT of Delhi.

GARGI COLLEGE



Brief History

Gargi College was established in the year 1967 and offers education in Arts and Humanities, Commerce, Science and Education. College was named after an enlightened woman named Gargi, figuring in the Brihadaranyaka Upanishada of the Vedic Age. She emerges as an intelligent and bold person embodying the spirit of inquiry juxtaposed with faith as is shown by her penetrating and challenging questions to the great sage Yajnavalkya. In the Upanishad, Gargi seems to represent the intellectual potential of the race of Homo sapiens, which continues to manifest itself, in quest of ever-widening fields of knowledge.

College believes in its mission statement that every student who graduates from here emerges as a wholly developed individual symbolizing the spirit of enterprise and inquiry that characterizes Gargi. Gargi College, one of the two colleges in Delhi to have been awarded the prestigious College with a Potential for Excellence grant, by UGC in the year 2004-2005, was chosen because of its holistic approach towards teaching and its excellent track record in academic and other aspects of college functioning. This award is in recognition of the endeavour of the college to engage in advanced research and socially purposeful projects over and above the regular college events.

Major Activities and Achievements

Five Associate Prof.s were promoted to the rank of Prof.s. Two students of our college were awarded the Meritorious Award by Delhi Administration and thirteen students were awarded Science Meritorious Award by the University of Delhi in the present academic year. College has maintained 100% pass percentage in most of the courses. College witnessed each department organizing many seminars and workshops for students. Many renowned speakers were invited who shared their knowledge with the young minds on relevant topics like River Rejuvenation, Plastic waste as a boon, career options after graduation, mental health, entrepreneurship, etc.

'Project Neev' was ranked in the Global Top 48 teams and National Top 19 Teams list in Enactus Global Race. 'Project Vikas' won the 'Best Collaborative Entry' Award and was ranked in the top 13 teams in India, hence receiving seed funding under Enactus India's Ideas for Impact Contest. Enliven have achieved the top 12 rank within the professional crews in all India. Twenty-eight sportspersons represented Gargi at the National level, 23 at the state level and 35 participated in invitational Inter College tournaments through online and offline mode. The following sportspersons have won various prizes in the present academic year.



Annual Day was conducted on 8 June 2021 via online mode. Dr. Vinay Sahasrabudhe was invited as chief guest for the event. Annual Day for the year 2021-22 was conducted on 20 April 2022.

On the occasion of the 75th Independence Day, college celebrated by hoisting the national flag, followed by NCC's Drill. On 3 September 2021, college celebrated Teachers' Day. The theme of the event was "Rehnuma: Our Guiding Lights". Constitution Day was also celebrated to commemorate the adoption of the Constitution of India.

On the occasion of National Voters Day, a legal awareness programme was organised to discuss the role and responsibilities of a voter. Our guest Ms. Nidhi Sirohi, Sub Divisional Magistrate, Hauz Khas was invited for the same.

'Reverie 2022', the Annual Inter-College Cultural Festival, was organized on 4 and 5 March 2022. The theme of the fest was 'Embracing Change: It was a virtual festival because of pandemic'. The inaugural ceremony was held on 4 March 2022 in the blended mode and live telecasted on youtube for the students. The chief guest for the event was Mr. Rabbi Shergill, a legendary Sufi musician, and singer.

Honours/Distinctions

Dr. Meenakshi Jain, Former Associate Prof., Department of History, was honoured with Padma Shri Award 2021 for Literature and Education by Hon'able President of India.

Prof. Promila Kumar Prof. and Principal, Gargi College received Distinguished Teachers award 2021 for positive influence on Educational levels and Student Achievement presented by Ramanujan College and Indian Accounting Association, NCR Chapter.

Dr. Geeta Kichlu, Associate Prof., Department of Commerce was awarded the College Lecturers' Award 2020-21 by Government of N.C.T. of Delhi for exemplary work done by teachers.

Prof. Vandna Luthra, Prof., Department of Physics was nominated as Master Trainer at DST - DEEP-C under Prime Minister's Office (2021).

Prof. Sangeeta Bhatia, Prof., Department of Psychology won the Bharat Panchal Award for Excellence in Psychological Research (along with a cash award of Rs 30,000/-) at the event on Mental

Health dialogues organized by the Department of Mental Health and Behavioural Sciences, Fortis Healthcare, 2021, for supervising the research paper on "Volunteerism during the second Covid-19 wave in India: Analyzing Motivation, Distress & Positive emotions in Volunteers.

Students with Distinctions

Ms. Afreen Zehra of B.A. (Hons) Applied Psychology awarded with University Medal for securing first position in University of Delhi.

Ms. Kratika Khinchi of B.A. (Pass) II year was felicitated by University of Delhi for designing the Centenary Logo of University.

Ms. Anubha Chaudhary of B.Sc. (Gen) II year awarded with Meritorious Award by Directorate of Higher Education, Government of N.C.T. of Delhi.

Ms. Teesha Rawat of B.Sc. (Gen) II year awarded with Meritorious Award by Directorate of Higher Education, Government of N.C.T. of Delhi.

Ms. Sakshi Sharma of B.Sc. (Hons) Chemistry II year awarded with Meritorious Award by Directorate of Higher Education, Government of N.C.T. of Delhi.

Publications

Anand, A., Vohra, V. (2022). What Helps Me Cope with Work-Family Conflict at My High-Performance Work System in India: A Thematic Analysis of Sociocultural Factors. *Vikalpa*, 47(1): 38-52.

Bhattacharjee, G., Gohil, N., Khambhati, K., Mani, I., Maurya, R., Karapurkar, J.K., Gohil, J., Chu, D.-T., Hue, V.T., Alzahrani, K.J., Show, P.L., Rawal, R.M., Ramakrishna, S., Singh V. (2022). Current approaches in CRISPR-Cas9 mediated gene editing for biomedical and therapeutic applications. *Journal of Controlled Release*, 343: 703-723.

Chaudhari, R., Kant, C.R., Garg A. (2022). Polymer-Bi3 composites for high- performance, room-temperature, direct X-ray detectors. *MRS Communications*, 12(NA), 358- 364.

Kumar R., Sood, U., Kaur, J., Anand, S., Gupta, V., Patil, K.S., Lal, R. (2022). The rising dominance of microbiology: what to expect in the next 15 years? *Microb Biotechnol*, 15(1): 110-128.



Kumari, T., Chowdhury, N.P., Chauhan, R., Tiwary, N.K. (2022). Eco-friendly extraction of Mosambi (Citrus limetta) essential oil from waste fruit peels and its potential use as a larvicidal, insecticidal and antimicrobial agent. *International Journal of Environment and Waste Management*, 29(3): 360-375.

Raina, J. (2021). Teacher Education for Diversity in India: Socio-educational experiences of travel to a 'margin'. *Journal for Critical Education Policy Studies*, 19(2), 370-398.

Shambhawi, Srivastava S., Mishra, A., Mishra, R., Mohanty, A. (2022). Biopesticidal Potential of Cyclotides: An Insight. *Phytochemistry Reviews*, <https://doi.org/10.1007/s11101-022-09825-0>: 1-21.

Sharma A., Raina, M., Kumar D., Singh A., Chugh, S., Jain, S., Kumar M., Rustagi, A. (2022). Harnessing phytomicrobiome signals for phytopathogenic stress management. *Journal of Biosciences*, 47(6): <https://doi.org/10.1007/s12038-021-00240-9>.

Singh N., Bhatla, S.C. (2022). Heme oxygenase-nitric oxide crosstalk-mediated iron homeostasis in plants under oxidative stress. *Free Radical Biology and Medicine*, 182(NA), 192-205.

Vishwanath, R., Negi, B. (2021). Conventional and Green Methods of Synthesis of Silver Nanoparticles and their Antimicrobial Properties. *Current Research in Green and Sustainable Chemistry*, 4: 100205.

Research Projects

Ministry of Home Affairs, Government of India project entitled, 'Exploring the developmental trajectory of radicalization, violent extremism and terrorism in youths across India', ongoing from October 2021 till date and sanctioned amount of Rs.50 lakhs.

Transforming Education for Sustainable Futures (TESF) India and Indian Institute of Human Settlements (IIHS), Bangalore, India. Project functioning from 1 February 2022 till 31 January 2023 from Teachers Negotiating Professional Agency: A Study of a Teacher Education Programme.

Inter University Accelerator Centre (IUAC) project entitled, 'Designing and study of Light weight portable polymer based Bismuth Triiodide composite radiation Detector for Medical applications' functioning since December 2021.

Seminars Organized

Dr. C.K. Khurana Memorial Lecture entitled, 'Plastic Waste Management' delivered by Dr. R. Vasudevan, Padma Shri Awardee, Dean of ECA and Prof. Department of Chemistry, Thiagarajar College of Engineering, Madurai on 16 February 2022.

Inaugural Lecture by Botanical Society of Gargi College entitled, 'Biodiversity for Everyone's life', delivered by Prof. Dinabandhu Sahoo, Prof., Department of Botany and Director Cluster Innovation Centre, University of Delhi on 28 August 2021.

Seminar entitled, 'River Rejuvenation, Pushkaram' delivered by Dr. Rajiv Ranjan Mishra, The Director-General of the National Mission for Clean Ganga on 24 September 2021.

Seminar entitled, 'Work from Home, The New Normal: A boon or bane for women' delivered by Deepshika Kumar CEO at SpeakIn, Member of Women's Wing of Federation of Indian Chambers of Commerce and Industry and a renowned TEDx Speaker on 28 February 2022.

Seminar entitled, 'Managing stress and anxiety during Covid-19 and Dealing with grief and loss, Wellness Series to Combat Covid', delivered by Prof. M. Manjula, Prof. at Department of Clinical Psychology at NIMHANS, Bengaluru on 7 June 2021.

Conferences Organized

Conference organized on, 'Integrated Approaches in Science and Technology for a Sustainable Future', and sponsored by Ministry of Science and Technology, Government of India on 28 February 2022.

Conference organized on, 'International Year of Basic Sciences for Sustainable Development by United Nations on 28 February 2022.

Conference organized entitled, 'Entrepreneurship: Culture and Creativity on 29 October 2021.

Conference organized entitled, 'Modulation of Innate Immunity Through Host-sensing Pathogen on 28 January 2022.

Conference organized entitled, 'India's Growth Trajectory-Prism of Infinite Possibilities: Innovation, Covid and Policies on 12 March 2022.



Seminar/Conference Presentations

Dr. Anjana Rustagi, Department of Botany, presented two research papers in an 'International Conference on Genetics and Genomics Technologies for Crop Improvement' organised by Hansraj College in association with International Maize and Wheat Improvement Center (CIMMYT), Mexico held from 2021, August 01-03.

Dr. Preeti Agrawal, Department of Botany, presented two papers in the National Conference on "Realms of Plant Diversity: Explorations with Novel Perspective", organized in virtual mode by the Department of Botany, Maitreyi College on 2021, August 24.

Dr. Anjana N. Dev, Department of English, presented a paper entitled, "My Past is an Unperfect Stone: Childhood, Family, Ancestors and Personal History in the Poetry of R. Parthasarathy" in an International Interdisciplinary Conference on Narratives, Self and Identities: Traditions and Innovations organised by the School of Arts, Humanities & Social Sciences, REVA University, Bangalore, in collaboration with iSPELL (Indian Society for the Promotion of English Language & Literature) and Liverpool John Moores University, England held on 2021, August 30-31.

Dr. Alka Michael, Department of History, presented a paper entitled, 'Sacred Groves, Landscapes and Waters: Tourism and Ecological Conservation in North East India' in the three-day National Conference organised by Centre for North East Studies and Policy Research, Jamia Millia Islamia, New Delhi in collaboration with Department of Humanities and Social Sciences, Sikkim Manipal University held on 2021, November 09-11 through online mode.

Dr. Ruchika Sharma Department of History, presented a paper entitled, "Bequeathing unto the: Intimacy and Materiality in Mixed-Race Households in early Colonial Bengal" at WOMEN AND AGENCY Transnational Perspectives -a VIRTUAL SYMPOSIUM in collaboration with University of Oxford held on 2021, June 24-25.

Prof. Shashi Chawla, Department of Microbiology, presented an oral paper entitled, "Impact of Air Pollution on Type-I Respiratory/Allergic disorders" in an International e-Conference on 'Mitigating environmental issues by sustainable approaches (ICMCESA-2022)' organized by Acharya Narendra Dev

College from 2022, February 22-28 under the aegis of IQAC and DBT Star College Scheme.

Dr. Alka Garg Department of Physics, presented a research paper in an International Conference on 'Advanced functional materials and Devices (AFMD-21)' from 2021, March 03-05 in an online mode organised by ARSD College, University of Delhi.

Dr. Supreeti Das Department of Physics, presented a paper entitled, "Heat transfer and cost analysis of circular heating source based tubular rods loaded with thermal oil-mwcnt nanofluids" in the 1st International Conference on 'Material Science and Mathematics for Advanced Technology (MSMAT-2021)' held on 2021, November 19-20.

Dr. Preeti Pant, Department of Psychology, presented a paper entitled, "Fostering Spirituality in Higher Education: The Need of the Hour" at the National Seminar on 'Vishva Guru Bharat: Exploring the Glorious Past, Promising Present and the Future Roadmap' held on 2022, March 23-24 The paper was awarded the Best Paper Award.

Dr. Sabeen Rizvi, Department of Psychology, presented a paper entitled, "Mental Health Literacy, help seeking attitudes and psychological wellbeing of women in Kashmir" at 57th National and 26th International Conference of Indian Academy of Applied Psychology, Mizoram, India held on 2022, January 27-29.

National/International MoUs Signed

MoU signed between Gargi College and Government Model Degree College, Padum Zanskar, University of Ladakh on 26 October 2021 under the Vidya Vistar Scheme, initiative of University of Delhi.

MoU signed with Coursera (continuation) with the cap of a program/course.

MoU signed with ICT Academy.

MoU signed with IBM Skills Build Country Partner-CSRBOX on skill-based programs for students and staff.

Other Inter-Institutional Collaboration

Collaboration between Gargi College and Government Model Degree College, Padum Zanskar,



University of Ladakh under the Vidya Vistar Scheme, initiative of University of Delhi.

Collaboration with various government and private institutions for the internship of students of Department of Elementary Education.

NSS Gargi collaborated with the Government of N.C.T. of Delhi to connect its volunteers to the "Desh Ke Mentors Program".

Women Development Cell collaborated with CANFEM for cancer awareness webinar; and with White Rose Club for "Intersectionality chat".

Glasseye – Film Making Society of Gargi College collaborated with Filmtantra (film appreciation and filmmaking society of Shaheed Bhagat Singh College) and Pink Legal Panache (an initiative under the esteemed Pink Legal) to conduct a screening of the film 'Out of Thin Air' and 'Daughters of Mother India' (harrowing documentary on the aftermath of the brutal Nirbhaya case).

Scientific collaboration between college and the National Institute of Immunology (NII) with the main objective of motivating bright young minds to take up a career in science.

Student under Exchange Program (Inbound/Outbound)

Exchange Program with Kamla Nehru College, University of Delhi.

Placement Details

Number of Final year students placed = 159

Number of Alumni placed = 32

Number of Companies visited for Campus Recruitment

210 Companies for Job and 304 Companies for Internship

Extension and Outreach Activities

Enactus Gargi aimed at nurturing the leaders and innovators of tomorrow, and developing their entrepreneurial skills. With over 90 members, Enactus Gargi successfully runs four projects - Rachna, Aagah, Neev and Vikas. Project Neev was ranked in the Global Top 48 Teams and National Top 19 Teams list in Enactus Global Race. Project Vikas won the 'Best Collaborative Entry' Award and was ranked in the Top 13 teams in India, hence receiving

seed funding under Enactus India's Ideas for Impact Contest.

NSS unit of college organized a multitude of activities, sessions and enlightening talks throughout the year further expanding the horizon of the motto "Not me, but you". More than 180 activities were conducted including various donation drives, group discussions, movie screenings, various competitions, pledges, the commemoration of NSS Day, Constitution Day, Republic Day, Independence Day, International Day of Yoga, Voters Day, plantation and cleanliness drives and Pride Month. Flagship NSS Events like Inaayat - Sadbhavna Diwas and Offline Blood Donation camp - "SAMARPAN" were successfully conducted. NSS Day 2021 - "Umang" was also successfully conducted with an enlightening panel discussion and project presentation competition. Annual Cultural Fest of NSS Gargi - "Zistatva" was successfully conducted virtually where various social entrepreneurial entities, digitally marketed their products through NSS Gargi's website.

Library Development

Organized National Webinar under the aegis of Aajadi ka Amrit Mahotsav on "User education Program: How to Navigate Online Services".

Organized five days Book Exhibition on Gandhi Ji under the aegis of Aajadi ka Amrit Mahotsav. Library celebrated Women's Day on 8 March 2022 based on the theme "Gender equality today for a sustainable tomorrow".

Organized Information Literacy cum Library Orientation on 9 December 2021 for all students to spread awareness and to train new library users to Library collection and services and find and evaluate information available.

WEB OPAC and facility of UGC INFLIBNET and access to DU Library Catalogue continued during the year. Online Gargi Library <http://gargicollege.saraswatilib.com/> and use of e-resources increased for online access to Library resources and facilities. 344 books were added till 14 March 2022 making total of 76373 accessioned books in all. At present, library has an asset of 381 CDs/videos and have access to 43 periodicals and 10 newspapers. Electronic Resource Management package for e-resources: User control provided by NLIST. The library subscribes to a large number of Electronics Resources through UGC-Infonet which includes e-resources (6,000+ e-journals and 31,35,000+ ebooks) and University of Delhi connectivity which includes Delhi University Library



System. It includes the Reference Sources, Bibliographic Sources, Statistical Sources, and Full Text Sources.

Approximately 18089 Books were consulted by users, which includes consultation of Reference Section and excludes use of loose issues of periodicals. Approximately 8301 students visited library during the year till 14 March 2022, which excludes faculty and non-teaching staff.

Faculty Strength

216

Financial Allocation and Utilization

(a.) Rs. 67,26,00,000/-

(b.) Rs. 63,94,46,000/-

HANS RAJ COLLEGE



Brief History

Hansraj College is one of the largest constituent colleges of the University of Delhi. The college was founded by the D.A.V. College Managing Committee on 26 July 1948 in the sacred memories of Maharishi Dayanand Saraswati and Mahatma Hansraj who spent their magnificent lives emphasizing the importance of knowledge.

Major Activities and Achievements

College has entered its 75th year in the year 2021-22 and celebrated its Platinum Jubilee Foundation Day wherein Shri M Venkaiah Naidu was the Chief Guest. College was ranked 14th in NIRF Ranking 2021 by Government of India.

Project Vriddhi of Enactus Hansraj were the runners up during the Enactus World Cup Competition 2021. College completed its first batch of sewing course under SKILLHUB, an initiative launched our Prime Minister Shri Narendra Modi Ji.

College is successfully running its centre, Mahatma Hansraj Faculty development Centre(MHRFDC) under PMMMNMTT of Ministry of Education,

Government of India. Hansraj e-samvaad centre and MHRFDC auditorium was inaugurated by august presence of Honourable Vice Chancellor of University of Delhi, Prof. Yogesh Singh.

Honours/Distinctions

Prof. Rama received a National Excellence ICON Award on 29 May 2022.

Dr. Lokesh Chandra Mishra, has a distinction for his paper published in frontiers in Molecular Biosciences with an impact factor of 6.113.

Dr. Brijesh Rathi has the following achievements to his credit during the year 2021-22: Appointed as a member, Advisory Committee of Avishkaran (a bio-

NEST incubator) by NIPER Hyderabad published his paper in a high-impact factor journal of 41.444.

Appointed as a section editor for Current Topics in Medicinal Chemistry (IF: 3.37), Bentham Science Publishers.

Appointed as an Associate Editor, Chemical Biology Letters, Indian Science Publishers Appointed as an Executive Guest Editor for the special issue on "Self-



assembled nanostructures in medicinal chemistry: Advances and applications” of Current Topics in Medicinal Chemistry (IF: 2.90).

Appointed as a member of Editorial Review Board of ARKIVOC, Arkat USA.

Appointed as an Editorial Member for Journal of Nano Education, published by American Scientific Publishers, USA.

Appointed as an Editorial Member for American Journal of Applied Chemistry which is published by Science Publishing Group, New York, USA.

Appointed as an Editorial Member for American Journal of Nanoscience and Nanotechnology, published by Science Publishing Group, New York, USA.

Appointed as an Editorial Member of Chemical Biology Letters, published by Indian Science Publications.

Appointed as a Reviewer of Journal of Medicinal Chemistry, Plos ONE, Chemical Science, RSC Advances; Physical Chemistry Chemical Physics; Microbial Pathogenesis; Journal of Heterocyclic Chemistry; Bioorganic Medicinal Chemistry; ARKIVOC and other journals.

Dr. Brijesh Rathihedifard Farnaz filed an international patent entitled, “Phthalimide-based substances with antiprotozoal activity and their use in therapy” (Czech patent application number, PV 2021-408; 03 September 2021).

Dr. Archana Singh has the following achievements to her credit during the year 2021-22:

Appointed as an Institute of Eminence (IOE) Fellow, School of Climate Change and Sustainability, University of Delhi in the 2022.

Awarded with Power Grant (SPG) by SERB-DST, Ministry of Science & Technology, Govt. of India

Awarded “Outstanding Woman Researcher in Plant Molecular Biology” in the 7th Venus International Women Awards – VIWA 2022.

Invited and joined Editorial Board Member as Review editor, Frontiers of Plant Science (Section-Plant-pathogen Interaction), 2022.

Invited and Joined Scientific Reports (Nature) as Editorial Board Member, 2021.

Selected as Member of Royal Society of Biology (MRSB), 2021.

Students with Distinctions

Nidhi of B.Sc. (Hons) Computer Science III year is the recipient of Gold Medal.

Chanchal Sharma of B.Sc. (Hons) Physics III year secured 2nd position in University.

Chaitali Satija of B.Sc. (Hons) Computer Science III year secured 3rd position in University.

Satyavarat Singh of B.Sc. (Hons) Mathematics III year secured 3rd position in University.

Publications

Rajpal, V. R., Sharma S., Sehgal, D., Singh A., Kumar A., Vaishnavi, S., Tiwari, M., Bhalla, H., Goel, S., Raina, S. N. (2022). A comprehensive account of SARS-COV-2 genome structure, incurred mutations, lineages and COVID-19 vaccination program. *Future Virology*, 17(9): 687-706.

Rajpal, V. R., Sharma S., Kumar A., Vaishnavi, S., Singh A., Sehgal, D., Tiwari, M., Goel, S., Raina, S. N. (2022). Mapping SARS-CoV-2 spike protein evolution during first and second waves of Covid-19 infections in India. *Future Virology*, 17(8): 557-575.

Gupta, S., Thokchom, S. D., Koul, M., Kapoor, R. (2022). Arbuscular mycorrhiza mediated mineral biofortification and arsenic toxicity mitigation in *Triticum aestivum* L. *Plant Stress*, 5: 1-13.

Singh A., Jain, D., Pandey, J., Yadav, M., Bansal, K. C., Singh I. K. (2022). Deciphering the role of miRNA in reprogramming plant responses to drought stress. *Critical Reviews in Biotechnology*, 42: 523.

Feng, D., Wej, F., Sun, Y., Sharma P. P., Zhang, T., Lin, H., Rathi, B., Clercq, E. D., Pannecouque, C., Kang, D., Zhan, P., Liu, X. (2021). Boronic acid-containing diarylpyrimidine derivatives as novel HIV-1 NNRTIs: design, synthesis, and biological evaluation. *Chinese Chemical Letters*, 32(12): 4053-4057.

Chandel, V., Maru, S., Kumar A., Kumar A., Sharma A., Rathi, B., Kumar D. (2021). Role of Monocarboxylate Transporters in Head and Neck Squamous Cell Carcinoma. *Life Sciences*, 279: Online.

Ambika., Singh P. P. (2021). Carbon–Carbon Bond Formation for the Synthesis of 5 Aryl 2 Substituted Furans Catalyzed by $K_3[Fe(CN)_6]$. *Catalysis Letters*, 152: 2288-2292.

Singh., T., Kishan, R., Kumar P. (2022). Solution behavior of half sandwich ruthenium(II) complexes ligated by sym N, N'-diarylthiourea: Structural aspects and temperature dependent NMR. *Journal of Molecular structure*, 1267: 1-10.



Savanur, M. R. S., Kumar A., Kumar M., Kumar S. (2021). Medicinal active applications of Dibenzofuran derivatives. *Chemical Biology Letters*, 9(4): 1-9.

Rath, S., Dr. Baljeet Kaur., Agrawal, R. K. (2022). Selection of Relevant Visual Feature Sets for Enhanced Depression Detection using Incremental Linear Discriminant Analysis. *Multimedia Tools and Applications*, 81: 17703-17727.

Journals

Prof. Tej Singh – was an International Editor-In Chief in the year 2020 for *Hansshodhsudha Quarterly Journal* 2(4): 1.

Prof. Rama has been a National Editor-In Chief in the year 2020 for *Hansshodhsudha Quarterly Journal* 2(4): 1.

Prof. Namrata Soni was a Managing Editor in the year 2020 for *Hansshodhsudha Quarterly Journal* 2(4): 1.

Research Projects

Department of Biotechnology (DBT) sponsored Research Project entitled, 'Network Programme for Enrichment and Update of Database on Genome Related Information for Indian Spermatophyta and Archegoniatae Taxa- Phase II' for the year 2021 for Rs. 11.73 lakhs.

DRDO sponsored Research Project entitled, 'Molecular theranostic probes based on optically active amines for targeting SARS-CoV-2' for the year 2021 and sanctioned amount Rs. 24.96 lakhs.

DST (BRICS Countries Joint Project) sponsored Research Project entitled, 'Repurposing of Drugs and Validation of Lead Compounds Against Main Protease and RNA Dependent RNA Polymerase of SARS-CoV-2' for the year 2021 and sanctioned amount Rs. 9.3 lakhs.

SERB-DST sponsored Research Project entitled, 'Lead Optimization of Potent Multistage Antimalarials' for the year 2021 and sanctioned amount Rs. 13.00 lakhs.

UGC-DAE-CSR sponsored Research Project entitled, 'Study of magnetic exchange paths leading to magnetic frustration in $\text{GeM}_x\text{Co}_2\text{-xO}_4$ (M = Ni/Mg) spinel compounds and exploring their energy bandgap' approved and grant is yet to be received.

Patents Filed/Granted

Collaborative Patent entitled, 'Hydroxyethylamine-based Piperazine Compounds, and Methods of Producing and Using the Same for Treating Disease'.

Collaborative Patent entitled, 'Novel Antiparasitic Agents Based on Piperazine and Uses thereof'.

Collaborative Patent entitled, 'Chalcone Derivatives and Uses thereof'.

An International Patent entitled, 'Phthalimide-based substances with antiprotozoal activity and their use in therapy' and authored by Zoltner Martin, Zahedifard Farnaz, Brijesh Rathi, Neha Sharma and Meenakshi Bansal (Czech patent application number, PV 2021-408; 03 September 2021).

An International Patent entitled, 'Calxinin Compositions and Method for Treating Viral Infections' and authored by Steven Bradfute, Brijesh Rathi, Yash Gupta, Poonam, Ravi Durvasula, Prakasha Kempaiah (US provisional Patent App. 63/016,741; 28 April 2020).

Seminars Organized

Seminar entitled, 'Qualitative Analysis Using NVivo' delivered by Dr. Jaspreet Kaur, Associate Prof., SOB, Pearl Academy on 27 May 2022.

Seminar entitled, 'Administrative Skills and Leadership' delivered by Mr. Jaychanda, Joint Registrar, University of Delhi on 1 May 2022.

Seminar entitled, 'Road Ahead for HEI's Accreditation Under NEP' delivered by Prof. K K Aggarwal, Chairperson, NBA on 7 April 2022.

Seminar entitled, 'NEP 2020: Delhi University Undergraduate Curriculum Framework 2022' delivered by our honourable Vice Chancellor of University of Delhi, Prof. Yogesh Singh as the Chief Guest on 27 January 2022.

Seminar entitled, 'Vedic Mathematics' delivered by Shri Atul Kothari, (Chief Guest), National Secretary, Shiksha Sanskriti Uthan Nyas on 2 December 2021.

Conferences Organized

Conference entitled, 'Probing the Frontiers – Contemporary Research Methodologies In Economics', organized by MHRFDC under PMMMNMTT, MOE, Government of India on 15 December 2021.



Conference entitled, 'Recent Trends in Mathematics', organized by MHRFDC under PMMMNMTT, MOE, Government of India on 22 December 2021.

Conference entitled, 'Insect and Plant Biology 2021', organized by MHRFDC under PMMMNMTT, MOE, Government of India on 7 October 2021.

Conference entitled, 'Advanced Linear Algebra', organized by MHRFDC under PMMMNMTT, MOE, Government of India on 27 September 2021.

Conference entitled, 'Materials Characterization: Experimental and Theoretical Aspects', organized by MHRFDC under PMMMNMTT, MOE, Government of India on 20 September 2021.

Seminar/Conference Presentations

Prof. Vijay Rani Rajpal presented a paper entitled 'Synthetic auto-tetraploids of *Tinospora cordifolia*', in an International Conference on Genetics and Genomics technologies for crop improvement organized by college from 2021, August 01-03.

Archana Singh presented a paper entitled 'Proteomic analysis of glycine max defense response induced by *Spodoptera litura* (Common cutworm) infestation' during the National Conference on "Empowering S&T with Women- A Step towards a New Era" organized by Indian Institute of Technology on 2022, April 19-20.

Archana Singh presented a paper entitled 'Omics approach for screening, analysis, and predictional elucidation of deleterious missense mutation of ACVR1 gene" during the National Conference on 2nd International RMBPD Colloquium organized on 2022, February 24-25.

Dr. Reetika Jain presented a paper entitled 'A Study of Disruptions in Consumer Behaviour and Marketing Strategy in Response to Pandemic in India' during the "International Management Conference 2021: Post COVID Management Strategies: Recovery, Resilience & Adaptation" organized by Indian Institute of Management, Bodh Gaya on 2022, April 23-24.

Alka Khurana presented a paper entitled 'Leveraging Non-Negative Matrix Factorization for Document Summarization' during the 27th International Conference, DASFAA 2022 held in Virtual mode from 2022, April 11-14.

Suyash Kumar presented a paper entitled 'Comparative study of Bagging Ensemble and ARIMA model for prediction of Covid-19 in India' during the 2nd Global Conference on 'Artificial Intelligence and Applications' held from 2021, September 08-10.

Suyash Kumar presented a paper entitled 'A comprehensive survey on Ensemble Methods' during the 7th International Conference for Convergence in Technology (I2CT) held from 2022, April 07-09.

National/International MoUs Signed

Under the Vidya Vistar Scheme of University of Delhi, signed an MoUs with:

Government Degree College, Drass, Kargil.

Government College, Yachuli, Arunachal Pradesh.

Government Degree College, Chamba, Himachal Pradesh.

Other Inter-Institutional Collaboration

MHRFDC signed MoUs with institutions organizing the programmes with our centre.

Placement Details

250

Number of Companies visited for campus recruitment

85

Extension and Outreach Activities

Following extension activities were organized during the year 2021-22.

Chemistry Department: Chemical Society "Rasayanatva"

Webinar on "Digital transformation and climate change"

Webinar on "Environmentally benign solvents for sustainable development"

Webinar on "Plagiarism in Academic Writing & Research"

Webinar on "Sustainable Friendly Environment for Progress and Durability of Composite Structures"

Workshop on "An Eco-Friendly Approach to Environment Day"

Sessions for under-privileged children Counselling Sessions

Financial Literacy Workshop

Parents Day session in SHEOWS Old Age Home



Oral Hygiene Awareness Session with Colgate
Menstrual Hygiene Awareness Sessions
Self Defence Sessions
Yoga Awareness Session
International Conference on Disability and Inclusion
Session on Career opportunity for persons with disability
Swablambhan Yatra
Parivartan - a project for Financial Literacy
Asexual Awareness Week
Transgender Awareness Week
Movie Screening: The Half of It
Webinar on Sustainable Development
Project Pravahini
Webinar on Black Softshell Turtle- Extinct or existing?
Webinar on Active Air Purification Technology
Webinar on conservation of nature
Wildlife Week
Project Amrit Manthan
Webinar on International day of forest
Harit Kaksha
Adopt a Plant Challenge 3.0 31. Offline Plantation Drive
Prakriti Sansad
Clean and Green Drive
KAW Shelter Visit
Bowl and Bird House Setup
Nature Walk to Sanjay Van
Prakriti Kumbh
Webinar: Making Home a Safe Space, Free From Child Sexual Abuse (10 July 2021)
Workshop: Art of Mind Control (16 July 2021) and Blue Heart Campaign Against Human Trafficking (30th July to 31 July 2021)
Yamuna Khadar: Food Donation Drive (24 July 2021)
Nutrition Week: Food Donation Drive (6 September 2021)
Dengue and Cleanliness Awareness at Yamuna Khadar (15 September 2021)
Joy of Giving Week: Day 1 (4 October 2021)
Cleanliness drive: Animal Shelter
Joy of Giving Week: Day 2 (5 October 2021) Project Jugnu: Sale of candles made by women of Majniou ka Tila
Joy of Giving Week: Day 3 (6 October 2021) Visit to old age home
Joy of Giving Week: Day 4 (7 October 2021)
Awareness session on blood donation
Clean Yamuna Campaign (7 October 2021)
Joy of Giving Week: Day 6 (9 October 2021)
Visit to Anukrti Special School
Winter Clothes Donation Drive (31 December 2021)

to 6 January 2022) for people near college
Winter Clothes and Blankets Donation Drive (7 January 2022)
Padhaku kids Career Counseling (15 and 16 January 2022)
Project Paryavaran (17 - 23 January 2022) Plantation drive at various places in India
Selfie with Daughter (24 - 27 January 2022)
Session on Women Safety and Gender Sensitisation (24 January 2022)
Group Discussion on Voter's Day (25th January 2022)
Open Mic Session on Republic Day (26 January 2022)
Visit to Special School (10 February 2022)
Plogging Drive (13 February 2022)
Cleanliness Drive (13 - 19 February 2022)
Awareness Session on Menstrual Hygiene (8 March 2022)
Mera Swabhiman, Mera Adhikar (9 March 2022)
Project Jugnu
Legal Rights of Woman (20 March 2022)
UBA survey Sanjay Basti (23 March 2022)
English Literacy Session at Yamuna Khadar (2 April 2022)
Computer Literacy Session at Yamuna Khadar (3 April 2022)
BMI Calculation (4 April 2022) Padhaku Kids
Session on POCSO Act (5 April 2022) at school
Blood Donation Camp (8 April 2022)
Nutrition in Adolescence (9 April 2022) for school students
Cyber Security with Padhaku kids (12 June 2022)
Beti Bachao Beti Padhao (19 June 2022)
Yoga Day (20 and 21 June 2022)
Plantation Drive at Bihari Buiding area (6 July 2022)
Project Parvarish-5 year celebration: Food donation drive at
Tree Plantation Drive
Fit India Movement 2.0
Cleanliness Drive
Awareness Rally: Single Use Plastic
Emotional Well-Being and Coping Mechanism are the Need of the Hour
Shaping an identity- Naga Myths and Legends
Identity, Culture and Lore of North-East India
Questions on Family and Gender: Understanding Khasi Matriliney
Fire and Feasts: Food conversations from the North-East
Reconnecting Mahabharata and North-East India: Some philosophical insights



"Literature and Culture of North-East India — a series of three events:

A talk on the idea of North-East and the literatures emerging from the region, Movie screening of regional film(s) from the North-East, Book discussion."

Project Dawn to Dusk

Mahadaan

Project Stand By Me

Library Development

College Library is having huge collection to cater the needs of students and teachers from different streams such as Humanities, Commerce and Science. Library is having a seating capacity of 220 users in different sections. It has a separate Reading Room for faculty members of the college and E-resource unit for the students to access the Internet and other databases subscribed by the Library.

Library is Fully Automated using RFID technology and KOHA software, version 19.05.06.000 for its

Management and Operation. Apart from in house collection, library has full access to the thousands of journals online through DULS. College Library has subscribed to various Databases such as N-List Database, DELNET and Economic Outlook to facilitate students and faculty to enrich their knowledge from various e-journals and e-books available through these databases. Library has focused on visually impaired and differently abled students too by providing them the facility of Braille Library of University of Delhi. Library has KIBO Scanner in enabling unit of Library and also provides access of sugamya pustkalaya to our differently abled students.

Faculty Strength

220

Financial Allocation and Utilization

Fund Allocated = Rs. 54,95,01,000/-

Fund Utilized = Rs. 55,71,72,202/-

HINDU COLLEGE



Brief History

Hindu College was founded in the year 1899 by late Shri Krishan Dassji Gurwale along with a Board of Trustees who represented the prominent citizens of Delhi. The pre-eminent aim behind the founding of Hindu College was to provide modern and nationalist education to the youth of the Country. The aim of the founding fathers of Hindu College was to make it a centre of new ideas, whilst being non-elitist and non-sectarian. College welcomed youth from all sections of society without any differentiation on grounds of religion, caste, creed and gender. Both arts and

sciences were introduced as subjects from the beginning.

From its very beginning and till date, college has lived up to the vision of its founders by maintaining its excellence and inclusivity. Constantly adapting to the fast-paced transformations in the outside world, Hindu College has managed to achieve new heights of success year after year.



Major Activities and Achievements

Hindu College was ranked the Number 1 college in the country in Arts and Science streams in the India Today Best Colleges Ranking 2022. College secured second position in the NIRF College Ranking 2022. Despite teaching and learning being restricted to the online space for most of the academic year 2021-22, various departments and societies continued to organize various curricular and extracurricular events, and continued the organizations when the college resumed its functioning in the month of February 2022. College actively participated in the Azadi ka Amrit Mahotsav, and organized activities including an essay writing competition, a slogan-writing competition, and a pledge ceremony among many others. Various departments held seminars and conferences, including the Department of Chemistry which organized the event “Chemistry Festival for Students and Teachers - Green Chemistry - Education, Research and Practice” on 1 October 2021 in collaboration with Royal Society of Chemistry, London, North India Section, and Green Chemistry Network Centre, University of Delhi. The NCC Hindu, in collaboration with Hindu College Counselling Cell, and the NSS, under the Initiative of Ministry of Education for Psychological Support and Mental Well-being, organized a National Conference on “Career and Well-Being.” Various departments and societies of the College also organized weekly or fortnightly seminars.

On 8 October 2021, a new ‘Science Block’ and ‘UTSAV Amphitheatre’ were inaugurated by Hindu College alumnus, Shri Hardeep Singh Puri, who is the Minister of Petroleum and Natural Gas and the Minister of Housing and Urban Affairs. Various faculty members made significant academic contributions: 7 Ph.D. degrees awarded, more than 120 Publications, 79 Conference papers, 21 invited talks.

Honours/Distinctions

Hindu College was ranked the Number 1 college in the country in Arts and Science streams in the India Today Best Colleges Ranking 2022.

College secured second position in the NIRF College Ranking 2022.

The following faculty members were awarded with the Ph.D. degree this year:

Dr. Sangeeta Arora, Department of Commerce, from University of Delhi.

Dr. Annu Aggarwal, Department of Commerce, from University of Delhi.

Dr. Seema Das Department of Political Science, from University of Delhi.

Dr. Neha Midha, Department of Statistics, from University of Delhi.

Dr. Ritika Joshi, School of International Studies, Jawahar Lal Nehru University.

Dr. Mohit Kumar Department of Zoology, from from University of Delhi.

Dr. Sunil Joshi. Department of Sanskrit, from University of Delhi.

Students with Distinctions

Mr. Sourabh Verma was awarded the University medal for securing first position in B.A. (Hons) History.

Ms. Ramanpreet Kaur was awarded the University medal for securing first position in B.Sc. (Hons) Mathematics.

Mr. Goda Venkata Adithya Tarun was awarded the University medal for securing first position in B.Sc. (Hons) Statistics.

Ms. Monika Kumari Mishra, was awarded the University medal for securing first position in M.A. Hindi.

Ms. Prabhleen Kaur was awarded the University medal for securing the first position in M.Sc. Zoology.

Publications

Antony, D.M. (2021). Exploring the Ontology of the Perceptual Object: A Preliminary Conversation between Dharmakirti and Russell. *International Journal of Creative Research Thoughts*, 9(5): 158-161.

Ashdhir, P., Arya, J., Rani, C. E., Anshika. (2021). Exploring the Fundamentals of fast Fourier transform technique and its elementary application in Physics. *European Journal of Physics*, (42): 28pp.

De, G. (2021). A Tribute to F. G. Bailey. *Contributions to Indian Sociology*, 1(55): 126-128.

Dhamija, N. (2021). Trade Liberalization and Unemployment in India: A State Level Analysis. *Munich Personal RePEc Archive (MPRA)*, 3(12).

Goswami, D. (2021). Axioms of Probability - Discrete Models Covering Conditional Probability. *IOSR Journal of Mathematics (IOSR-JM)*, 2(17): 59-60.

Goyal, M., Vashisht, H., Alrefaee, S. H., Jain, R., Kumar S., Kaya, S., Guo, L., Verma, C. (2021). Decyltriphenylphosphonium Bromide Containing



Hydrophobic Alkyl-Chain as a Potential Corrosion Inhibitor for Mild Steel in Sulfuric Acid: Theoretical and Experimental Studies. *Journal of Molecular Liquids*, (336): 116-166.

Jain, M., Saxena, P., Sharma S., Sonwani, S. (2021). Investigation of Forest Fire Activity Changes over the Central India Domain using Satellite Observations. *GeoHealth*, 5, e2021GH000528 p. 1-16.

Kumar A. (2021). Effects of Concentration & Temperature on the Inhibition Power of (1-Naphthylmethyl)-Triphenylphosphonium Chloride for Mild Steel Corrosion in Acidic Medium. National Virtual Conference on "Reverse Migration: An Effort to Rebloom the Villages in the Wake of the Pandemic, 153-161.

Singh N. S., Kumar L., Sharma V. K. (2021). Solving the equivalent circuit of a planar heterojunction perovskite solar cell using Lambert W-function. *Solid State Communications*, 337(1): 114439.

Zare, E. N., Mudhoo, A., Khan, M. A., Otero, M., Bundhoo, Z. M. A., Navarathna, C., Patel, M., Srivastava A., Pittman Jr. C.U., Mlsna, T., Mohan, D., Makvandi, P., Sillanpa, M. (2021). Water decontamination Using Bio-Based, Chemically Functionalized Doped and Ionic Liquid-Enhanced Adsorbents. *Environmental Chemistry Letters*. 19: p. 3075–3114.

Journals

The Symposium Society. (2020 till date). *Hindu College Gazette*. Quarterly

The Department of English. (2019 till date). *Prologue*. Quarterly

The Department of Philosophy. (2021-2022). *Falsafa*. Annual

The Department of Sociology. (2021-2022). *Waqif*. Annual

Research Projects

SERB-DST Project entitled, "Designing and development of high efficiency inverted organic solar cells" for the year 2020-21 and sanctioned amount Rs. 7,00,000/-

Indian Council of Historical Research (ICHR) sponsored project entitled, "History and Politics - Advaita - Vedanta and the Idea of self in colonial

India" for the year 2020-21 and sanctioned amount of Rs. 47,500/-

University Grants Commission sponsored travel grant for the year 2021-21 and sanctioned amount Rs. 1,65,900/-

University Grants Commission sponsored travel grant for the year 2021-21 and sanctioned amount Rs. 1,29,658/-

Seminars Organized

Seminar entitled, 'Gandhi: Independence and Beyond, Azadi ka Amrit Mahotsav' delivered by Prof. Ramesh Chandra Bhardwaj, Head of the Department of Sanskrit, University of Delhi and the Director of the Gandhi Bhavan, University of Delhi on 16 July 2021.

Seminar entitled, 'Women Empowerment through Science and Technology' Dr. Nupur Bahadur Dr. Susan Titus, Fellow and Area Convener TADOX Technology Centre for Water reuse, TERI Scientist 'G' Head Marine Biotechnology, DRDO Ambernath on 25 September 2021.

Seminar entitled, 'Critical Reading of Modern Western Philosophy, The idea of Philosophy in relation to Social Reality' Prof. P. Kesava Kumar HoD, Philosophy on 12 August 2021.

Seminar delivered by Prof. Rukmini Sen, Prof. in Sociology and currently Director, Outreach and Extension Division and Centre for publishing, AUD, Sociology of Law, on 8 November 2021.

Conferences Organized

Conference on 'Career & Well Being: Towards Healthy Career Choices', organized on 9 April 2021 by NSS Hindu, with the Hindu College Counselling Centre in collaboration with Ministry of Education's Manodarpan Initiative.

Conference on 'Chemistry Festival for Students and Teachers - Green Chemistry - Education, Research and Practice' organized on 1 October 2021 by Department of Chemistry, Hindu College, in collaboration with Royal Society of Chemistry, London North India Section and Green Chemistry Network Centre, University of Delhi.



Seminar/Conference Presentations

Mr. Ajai Kumar Associate Prof. in Chemistry, delivered a talk on 'Charge Transfer Transitions in the Transition Metal Complexes' in the International Online Conference on Advances in Chemical Sciences (A.C.S. 2021), organized by H.V.M. (PG) College, Raisi, Haridwar, Uttarakhand, 2021, November 21-22.

Dr. Annu Aggarwal, Assistant Prof. in Commerce, presented a paper titled 'Foreign Exchange Risk and Stock Return: A Three-Layered Approach to Abnormal Gain' in 3rd Rajagiri Management Conference on Economics and Finance (International) organised by Rajagiri Business School and Rajagiri College of Social Sciences (Autonomous) on 2021, November 19-20.

Ms. Kritika Sharma Assistant Prof. in English, delivered a lecture titled 'What does it matter who is speaking? Feminism and Literary Theory', as a resource-person for the three-day Webinar Series on 'Gender and Culture' organized by Govt. Serchhip College, Mizoram, held from 2021, August 09-12.

Dr. Pallavi Saxena, Assistant Prof. in Environmental Sciences, jointly presented a paper titled "Night-time Ozone: Chemistry and Influence of Meteorological Parameters at a Ground Level Site in Delhi", at the 16th IGAC Scientific Conference held from 2021, September 12-17.

Dr. Archana Verma, Associate Prof. in History, presented a paper titled, "Gandhi and the Round Table Conference: An Appraisal" at Ranjit Guru Memorial Series of International Webinars organised by J. N. College, Cuttack, Odisha.

Dr. Vivek Verma, Associate Prof. in Physics Department, delivered an invited talk on 'Organic and Inorganic Composites for EMI Shielding Applications' in an International Online Conference on Nano Materials (ICN 2021) at Kottayam, Kerala, India, organized by Mahatma Gandhi University, P.D Hills P.O, Kottayam, Kerala, India and Wroclaw University of technology, Wroclaw, Poland held from 2021, April 09-11.

Dr. Maneesha Pandey, Associate Prof. in Political Science, presented a paper titled, 'Vaccination against coronavirus: Revival of ancient Indian Tradition of Preventive Medical Measures', in a two day online National Conference on Bharat Manthan -

4, organized by Indraprastha Adhyayan Kendra in Association with CCS University Meerut and Sanskrit department of JNU on 2021, May 29.

Dr. Jagmohan, Associate Prof. in Sanskrit, presented a research paper titled "गोपथ ब्राह्मण में वर्णित सावित्री विद्या" in an online International Conference entitled "गोपथब्राह्मणे विविधज्ञानविज्ञानम्" organized by Swami Samarpanaanand Vaidik Shodh Sansthaan, Meerut, U.P., held on 2021, January 13-14.

Dr. Divya Bajaj, Assistant Prof. in Zoology, presented a poster on 'The Covid-19 Havoc and clues from sex disaggregation of data in the Indian population' in the online international conference on "Infections and Immunity", organised by Daulat Ram College, University of Delhi, held on 2021, October 08-10.

National/International MoUs Signed

Memorandum of Understanding between Hindu College and Whitireia Community Polytechnic Limited and Wellington Institute of Technology Limited (WandW) to establish programmes of all projects and exchange and collaboration in areas of mutual interest and benefit.

Memorandum of Understanding between Hindu College and Lynchburg College (USA) in Academic and Cultural exchange programmes aimed at promoting scholarly activities and international understanding.

Memorandum of Understanding between Hindu College and King's College London to establish and co-curricular collaboration.

Memorandum of Understanding between Hindu College and NBCC (India).

Memorandum of Understanding between Hindu College and Sangneria Foundation for Health & Education.

Memorandum of Understanding between Hindu College and Ultra International Ltd.

Other Inter-Institutional Collaboration

College has MoU with the National University of Singapore, Singapore from 2011 onwards for a student and faculty exchange Programme. Under this MoU, students from NUS have been spending one



semester each academic year. In its first year, College is hosting students from University of Heidelberg, Germany and UBC, Canada through the affiliating university 's MoU with the respective universities.

College offers foreign language courses through MoUs and joint collaboration with well known institutions such as Goethe Institute, Max Mueller Bhawan for German; Instituto Cervantes for Spanish, Alliance Francaise de Delhi for French and Department of Slavonic and Finno-Ugrian Studies for Russian.

Placement Details

More than 150 students were placed in the year 2021-22 (15% of total graduating students and 100% of those who opted for placement).

Number of Companies visited for campus recruitment

85

Extension and Outreach Activities

Extension activities in the college are organised through the NSS, NCC and some other societies, prominent being the environment society (Panchtatva), Equal Opportunity Cell (Ankur), Women's Development Cell (WDC), Enactus, etc.

NSS unit of college: NSS organized various virtual as well as in-person camps as well as Blood donation camp, Cleanliness drive, Cloth donation drive, Collection Drive, Scholarship drive, Awareness Drive, Swachh Campus Rally, Cleanliness Pledge, etc.

NCC: Combined Annual Training Camp; representation in Republic Day Camp, Nau-Sainik Camp; organized camp for International Yoga Day; celebrated Surgical Strike Day, National Voter's Day, "Ek Bharat Shrestha Bharat" camp, etc.

Number of people enrolled/covered in the camps:

NSS: approx. 100 students enrolled, NCC: approx. 48

Number of students who worked in the camps: NSS: 70 students worked in the various camps, NCC: 33 cadets participated in Combined Annual Training Camp.

Cadets were awarded various positions for performances in AINSC, CATC and AIATC 15 cadets cleared 'C' certificate and 14 cadets cleared 'B' certificate exam successfully.

Library Development

Total budget allocated for the library:

Book funds = Rs. 13,54,750/-

Development fund library = Rs. 13,32,250/-

No. of Books added during the academic year 2021-22 = 272 books

Internet Facility: Wi-Fi facility available in the library

Faculty Strength

163

Financial Allocation and Utilization

Funds Allocated = Rs. 62,90,00,000/-

Funds Utilized = Rs. 53,87,00,000/-

HOLY FAMILY COLLEGE OF NURSING





Brief History

Holy Family College of Nursing is affiliated to University of Delhi and managed by Archdiocese of Delhi. College aims to be the Center of academic excellence in the field of nursing education. College started as School of Nursing which was associated with Holy Family Hospital, New Delhi and started in 1956. Eventually it has bloomed into College of the mission and vision of providing high quality nursing education. B.Sc. (Hons) Nursing programme started in the year 2011 under University of Delhi followed by Post Basic B.Sc. Nursing and M.Sc. Nursing courses from the academic session 2016-2017.

Major Activities and Achievements

College launched its new website on 2 February 2022. Students participated in various unit level and state level competitions organized by SNA. Institute has registered itself for NAAC Accreditation. Self-Study Report and response to Data Verification & Validation clarification submitted and prequalification approval and peer visit is awaited. Prof. (Dr.) Raminder Kalra was appointed as a member of Board of Studies in College of Nursing ILBS, Rufaida College of Nursing Hamdard University and MM University, Maullana, Ambala.

Students with Distinctions

Ms. Himani was awarded with President's Silver Medal for Nursing during University Convocation for being the University Topper in B.Sc. (Hons) Nursing Course.

Ms. Heena of B.Sc. (Hons) Nursing secured 2nd position in University of Delhi and also in college.

Ms. Ann Maria of B.Sc. (Post Basic) Nursing secured 1st position in University of Delhi and in college.

Bandhu Sharma of M.Sc. Nursing secured 1st position in college.

Ancy Babu of M.Sc. Nursing secured 2nd position in college.

Publications

Singh A., Kalra, R., Khan, A.A. (2022). Academic stress due to online teaching practices during COVID-19 pandemic. International journal of advanced science & Research. 7(1):39 - 46.

Chacko, S. A. (2021). A Study to assess the Effectiveness of Transcendental Meditation on stress among Transgenders residing in Bengaluru.

International Journal of Advances in Nursing Management, 9(1): 19 - 21.

Barthwal, A., Selvi, A. M., Khan, A. A. (2022). Tobacco Abuse among support staff and effectiveness of planned teaching programme in terms of knowledge, attitude and practice of tobacco abuse. The nursing Journal of India. CXIII (ISSN 0029-6503): 77 - 79.

Solanki, S. (2022). Assessment and evaluation of the efficiency of the planned teaching project on basic life support in terms of knowledge and skill among staff members working in Mall. Journal of cardiovascular research. 3(1).

Seminars Organized

Seminar entitled, 'Updating Essential Nursing Care Competencies' delivered by Dr. Bimla Kapoor, Dean Academics Fmr. Director & Prof., School of Health Sc., IGNOU on 7 March 2022.

Seminar/Conference Presentations

Prof. (Dr.) Raminder Kalra was a speaker for two workshops held in RAK College of Nursing, namely "Psychosocial and legal aspects of trauma "and "Geropsychiatric Nursing".

Abhishek Singh presented a paper entitled, 'Academic stress due to online teaching practices during covid -19 pandemic', which was published in an International journal of advanced science & research.

Anu Barthwal presented a paper entitled, 'Tobacco Abuse among support staff and effectiveness of planned teaching programme in terms of knowledge, attitude and practice of tobacco abuse', which was published in March 2022 in the Nursing Journal of India by TNAI.

Shristy Solanki presented a paper entitled, 'Assessment and evaluation of the efficiency of the planned teaching project on basic life support in terms of knowledge and skill among staff members working in Mall', which was published in Journal of Cardiovascular Research.

Prof. (Dr.) Raminder Kalra presented a paper entitled, 'Assessment of substance use behavior and effectiveness of structured teaching programme on prevention and ill effects of substance abuse among



adolescents', which was published in the Internal Journal of Psychiatric Nursing.

Ms. Jiban Lata presented a paper entitled, 'Descriptive survey to assess the knowledge and utilization of Janani Shishu Suraksha Karyakaram (JSSK) among postnatal Mothers in selected Government Hospital of Delhi. Internal Journal of Science & Research. 2019 (April) 8(4).

Ms. Jiban Lata presented a paper entitled, 'Assessment of substance use behavior and effectiveness of structured teaching programme on prevention and ill effects of substance abuse among adolescents', which was published in the Internal Journal of Psychiatric Nursing.

Alfy Chacko presented a paper entitled, 'A Study to assess the Effectiveness of Transcendental Meditation on stress among Transgenders residing in Bengaluru', which was published in the International Journal of Advances in Nursing Management.

Monika Parcha presented a paper entitled, 'Assessment of nutritional status of Children (3-5 years) and Seek its Association with their Mother's Knowledge on Nutritional Requirements of Children', which was published in the International journal of Science and Research (IJSR).

Lovely Negi presented a paper entitled, 'Effectiveness of a Structured Teaching Programme on ABG Analysis and Interpretation in terms of Knowledge and Practice of Nursing Personnel', which was published in the Asian Journal of Research in Nursing and Health.

Placement Details

100%

Number of Companies visited for campus recruitment

Holy Family Hospital visited campus for recruitment.

Extension and Outreach Activities

Celebration of International days and other important group activities by the students:

World Health Organization (WHO) day was celebrated on 7 April 2021 based on the theme "Building Healthier and Faire World". Following activities were conducted on the occasion:

Students of M.Sc. II year presented a talk on the topic of 'Health'.

Presented a video in the General OPD, Private OPD and also in the Ayurveda Department.

Poster competition was organized by B.Sc. II year students.

A group project was coordinated by B.Sc. 3rd yr students.

A health project was organized by M.Sc. II year students in the HFCON auditorium on 14 April 2022. General health assessment including Vital signs, BP checking, oral assessment analysis, and eye check-up was carried out. Group projects were carried out at MCH Defense Colony, namely, 'HIV / AIDS' and another on project on "Cancer" on on 23 December 2021 and 27 February 2022 respectively.

A Disaster Drill for evacuation during earthquakes was organized by M.Sc. students.

College celebrated World Breastfeeding Week starting from 18 August 2021. Students of B.Sc. IV year and M.Sc. students (OBG) carried out a group project and skit on health education. Another group project and skit on health education was conducted by B.Sc. II Year students on the topic, 'Vector Borne disease' on 16 September 2021.

World Heart Day was celebrated on 22 September 2021 wherein a group project was organized by B.Sc. II year students on the occasion of "World Heart Day" on the same day M.Sc. II year organized education program on "under five assessments" at PHC Palam for ASHA workers.

International Day for Girl Child was celebrated at a Primary Health Care (PHC) Centre in Palam on 14 October 2021 wherein B.Sc. Interns performed a skit. Program on 'Sexual Harassment Awareness at the workplace' was organized and a poster competition was held by the Mental Health Department on 30 March 2022. International Women's Day was also celebrated on the same day by conducting a debate competition on the theme, 'Women Empowerment a Reality or Myth'.

Library Development

No. of Book Racks/ cupboards: 24

No. of Journal Racks: 5

No. of Tables: 28

No. of Nursing Books available: 2810

No. of Nursing Journals subscribed: 14 (10+4=14)

Internet Facility available for students: Yes

Books purchased in the last financial year: 6

Faculty Strength

INDIRA GANDHI INSTITUTE OF PHYSICAL EDUCATION & SPORTS SCIENCES



Brief History

Indira Gandhi Institute of Physical Education and Sports Sciences was established on 3rd August, 1987 by Delhi Administration (now Govt. of N.C.T of Delhi) under the auspices of the University of Delhi. A three-year degree courses viz. B.Sc. Physical Education, Health Education and Sports was started in the year 1987 with an initial strength of 50. (From the date of inception i.e. 03rd August 1987). It also now offers B.P.Ed. (Bachelor of Physical Education) since 1990 with an initial strength of 48 and M.P.Ed. (Master of Physical Education) since 1994 with an initial strength of 25, recognized by National Council of Teachers Education (NCTE). The Institute is the only Teachers' Training Institute in the capital imparting Physical Education and Sports Sciences having well – qualified faculty members and staff. In 2004 Department of Physical Education and Sports Sciences was established and housed in the same premises and started Doctor of Philosophy (Ph.D.) Course. At present, the total strength of the Institute is 629. At the time of inception of the Institute there were 5 Faculty members and 3 Staff members. At present, there are 24 Faculty members and 37 Staff members.

31 staff members of Teaching and Non-Teaching Staff have already been retired. The Institute is presently located at B-Block Vikaspuri in around 5 Acres of land. At present we have infrastructural facilities like multi-purpose gym, football ground, hockey ground, gymnastic hall, indoor badminton hall, kho-kho

ground, kabbadi ground, handball ground, basketball court, volleyball court, cricket practising pitch, athletic track with discuss throw and javelin throw facility. Besides this the Institute is having research-based Labs and a medical unit with physiotherapy facility.

Major Activities and Achievements

A one-week National Yoga Workshop organized on occasion of International Day of Yoga from 15 to 21 May 2021. A message from Chairman, Governing Body on the occasion of Foundation Day of the Institute on 3 August 2021. 75th Independence Day was celebrated on 15 August 2021 with full zeal and enthusiasm in the Institute. National Anthem Competition was organized on 15 August 2021 under the program Azadi Ka Amrit Mahotsav in the Institute. Pledge taking ceremony and Plantation Drive conducted on 10 September 2021 under the Mission of Swatchh Bharat Abhiyan. Alumni Data Bank inaugurated on 12 October 2021 to portray the achievement of the Alumni of the Institute. Committee constituted for Nationwide Campaign Titled “Nadi Ko Jano” on 28 October 2021. Speech Competition among Students on title of “Development and Challenges of Independent India-Swatantra Bharat Ka Vikas aur Uski Chhunautiyan” under Azadi ka Amrit Mahautsav on 10 November 2021. Online Orientation programme organized in which freshers of all classes took part. Vigilance



Awareness Week celebrated from 26 October 2021 to 1 November 2021. Committee constituted for creating Awareness about Drug Abuse among the students on 10 December 2021, for success of “Nasha Mukta Bharat Abhiyaan”. Advanced and improved Website launched for an easy access to staff and students. 73rd Republic Day celebrated on 26 January 2022 with full zeal and enthusiasm in the Institute. International Women’s Day celebrated on 8 March 2022 signifying the theme “Gender equality today for a sustainable tomorrow”. Annual Day was celebrated on 31 March 2022 with full ardour and fervour in the institute.

Publications

Prof. Sandeep Tiwari. (2022). Assessment of Sports Psychological Skills Between Male and Female Sportspersons. *Shodhasamita* ISSN: 2277-7067, IX (4), 141.

Prof. Sandeep Tiwari. (2022). Comparison of Psychological Skills of Male Sports Persons Belonging to Individual and Team Sports. *NIU. International Journal of Human Rights* ISSN: 2394-0298, 3(2), 51.

Prof. Dhananjay Shaw. (2021). Yoga for Improving Mental Health during Covid-19 Pandemic: A Review. *International Journal of Yoga, Physiotherapy and Physical Education* ISSN-2456- 5067, 6(NA), 35-38.

Prof. Dhananjay Shaw. (2021). Effect of Tibial Length Discrepancy on Pelvic List during Human Gait. *International Journal of Current Research and Review*, 13(NA), 149-153.

Prof. Pardeep Kumar. (2021). Comparison of Personality Factors among the four selected sports disciplines at inter university level competition. *OIRJ* ISSN:2249-9598, 2(NA), 84-89.

Prof. Pardeep Kumar. (2021). A Comparative Study of Satisfaction with Life among Adolescence residing in Delhi. *International Journal of Movement Education and Sports Sciences* ISSN:2321-7200, 09(1), 6-13.

Dr. Meenakshi. (2021). A Pilot Study of Six Factors Composite Physical Fitness Test on School Going Boys. *International Journal for Research in Applied Sciences and Biotechnology, Vandana Publication*, 08(02).

Dr. Meenakshi. (2021). Comparison of performance related six factors composite physical fitness test variable between different zones of Delhi’s school boys. *UGC Care Approved, Peer- Reviewed and refereed Journal of Education, Rabindra Bharati University*, 22(1).

Dr. Meenakshi. (2022). An Exploratory and Confirmatory Examination of Goal Setting Action Scale for Sportsperson. *Journal of Positive School Psychology*, 6(3).

Dr. Meenakshi. (2021). Professional Competence Attributes for Physical Education Trainee Teachers: New Education Policy (NEP 2020) Perspective. *Nat. Volatiles & Essent.oils*, 8(4), 29- 33.

Seminars Organized

Prof. Sandeep Tiwari, Principal (Offg.), National Education Policy – 2020, with special reference to Physical Education on NEP (5:20), National Professional Standards for Teachers (NPST) NEP (11), Holistic and Multidisciplinary Education, NEP (15) Teacher Education, Open Discussion on NEP, 28 March 2022.

Prof. Sandeep Tiwari, Principal (Offg.), Health Consequences of Sedentary Lifestyle, *Healthy Lifestyle*, 21 March 2022.

Prof. Sandeep Tiwari, Principal (Offg.), Global Community Engagement for Physical Educators to reshaping the Sports and Physical Education: Post Pandemic, *Reshaping the Sports and Physical Education*, 11 March 2022.

Prof. Dhananjay Shaw, Prof., The Role of Genetics and other Sports Sciences in Improving Fitness and Sports Performance, *International Seminar*, 25 September 2021.

Dr. Vijay, Medical Officer cum Associate Prof., Cancer Prevention and Palliative Care, *Cancer Prevention*, 10 August 2021.

Seminar/Conference Presentations

A Webinar on Cancer Prevention and Palliative Care was organized on 2021, August 10 in the institute in association with the specialist Doctors of Dharmshila Cancer Foundation and Research Centre.



An open discussion was organized on 2022, March 28 by the IQAC of the Institute on National Education Policy 2020 with special reference to Physical Education at IGIPESS. This open discussion was attended by several dignitaries, academicians, eminent panelists etc.

National/International MoUs Signed

An MoU signing is under process with various Institutions of National and International repute.

Other Inter-Institutional Collaboration

Other Inter-Institutional Collaboration is under process with various Institutions of national and International repute.

Placement Details

140
100%

Number of Companies visited for Campus Recruitment

Students of this Institute got the job in Kendriya Vidyalaya School, Navodaya Vidyalaya School and other government schools of NCT of Delhi (through DSSSB) and various private schools of Delhi. Recently, various Students (B.Sc. and B.P.Ed.) of this Institute have been appointed in Delhi Government Schools through DSSSB.

Extension and Outreach Activities

On International Day of Yoga residents of nearby areas participated in the Camp and learned Yoga Asanas.

Library Development

Successfully implementation of digital library, users of IGIPESSs have access to the full text documents in digital format i.e. old question papers, M.P.Ed., B.P.Ed., and B.Sc. Syllabus, all Ph.D. thesis and all M.P.Ed. Dissertations awarded from 2013 onwards. Presently IGIPESS library database "Vidya: Library Management Software" put on-line through XAMPP Server.

Total Library collection 12890 (9215 Accessioned Books, 2321 Reading Room, 756 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. Two National and two International journals have been subscribed. (paperback version)

Faculty Strength

24

Financial Allocation and Utilization

Fund Allocated: Rs. 17,25,14,628/-
Fund Utilized: Rs. 17,38,65,679/- (Inclusive of unspent balance of previous year).

INDRAPRASTHA COLLEGE FOR WOMEN





Brief History

Indraprastha College for Women (IP College), established in 1924 is the first women's college of the University of Delhi, and was founded as a part of a nation-wide campaign for women's education and empowerment.

IP College has its origins in the first school for girls, namely the Indraprastha Hindu Kanya Shikshalaya or draprastha Hindu Girls School (1904), now known as Indraprastha Girls Senior Secondary School. It is still housed in a haveli built in 1857, donated by theosophist Rai Balkrishan Das in Old Delhi's Chhipiwara area, behind the historic Jama Masjid. It was in two rooms of the School that IP College made its beginning in 1924 with 3 students, which grew to 7 in 1925. The Theosophical Society of India, its founders, freedom fighters and educationist Annie Besant, was a driving force in establishing the School and College for girls. Fighting the prejudices against women's education, the founders of the College, included the theosophists, philanthropists and educationists who forged ahead with their path-breaking act of making space for women's education. The College has intersected the national movement and led the women's education and empowerment movements, the remarkable story of the inception, history and growth of the College is in the book, 'Women, Education and Politics by alumnae and former faculty Meena Bhargava and Kalyana Dutta.

Major Activities and Achievements

On 7 February 2022, the College celebrated its 99th Annual Day, with the Chief Guest Hon'ble Vice-Chancellor, University of Delhi, Prof. Yogesh Singh flagging off the College Centennial celebrations. Prof. Singh also opened the College Museum and Archives for public viewing, and was presented the IP College Commemorative Centennial coin.

The College successfully completed promotions at all levels of the teaching and non-teaching staff.

The College departments, the 7 Research and Learning Resource Centres, and academic societies organised 250 National and International Webinars, 7 international lecture series 3 Certificate Programs, 27 Workshops, 29 Departmental Events, 12 Online Quizzes and 10 Colloquia, IP College won the Second Prize for the Best Video Film in the competitive category at the 64th Annual Flower Show organized by University of Delhi, and also the Department of Geography Cup" and two Appreciation Prizes in the category of 'Potted Plants'.

The Translation and Translation Studies Centre hosted an international online lecture series on 'Women's Writings in India: Issues and Perspectives' in collaboration with the Department of South Asian Studies, Princeton University.

The Centre for Inter-Disciplinary Studies (CIDS) organized an online lecture series on 'Public Health'. Under the Centre for Yoga and Well-being, 310 students and faculty from College participated in the 75 Crore Suryanamaskar project.

College heartily participated in the Government initiatives like Nadi Ko jano, SWEEP and Azadi Ka Amrit Mahotsav.

During the second surge of COVID 19, the College including the Principal conducted several outreach programs and created the database of COVID facilities in Delhi and other cities. 2 oxygen cylinders were made available in emergency for the College community.

Honours/Distinctions

Principal, Babli Moitra Saraf, was invited to be a Member of the Research Group of Fondazione Unicampus San Pellegrino (FUSP), Italy - NIDA Centre for Advanced Research on Translation, and on the Editorial Board of the journal 'translation', of NIDA Centre.

Ms. Swaha Das Department of Political Science, co-authored the book Hispanic.

Gandhiana Bibliography, a bi-lingual Spanish-English Bibliography published by Gandhi Research Foundation, Jalgaon, which was released as an e-book by the Embassy of India and Gurudev Tagore International Cultural Centre, Mexico City on the 152nd birth anniversary of Mahatma Gandhi, an event in collaboration with IP College.

Dr. Roopali Goyanka, Department of Economics, received a consultancy related to analytical work for the WHO-SEAR Financial Protection Report. She was nominated by the Institution of Eminence (IOE), University of Delhi, as Member on the Committee to design Teaching/Research/Skill Enhancement Programs under Delhi School of Public Health.

Dr. Anita Swami, Department of Sanskrit, was awarded a fellowship titled 'Associate Shankar Fellow' under the theme Propagation of Shankar's Advaita Vedanta through Bhakti Movement from Acharya Shankar Sanskritik Ekta Nyas, Department of Culture, Government of Madhya Pradesh, for a period of two years (2021-2023).

Prof. Rekha Sethi, Department of Hindi, has been invited to Chair the online ongoing monthly lecture



series titled 'Indian Literature of Marginalised Society', hosted by the Department of South Asian and Middle Eastern Studies, Duke University, USA.

Students with Distinctions

Name of Students	Class
Aishwarya Kunwar	B.A Hons. Multi Media and Mass Communication Part III
Shambhavi Mishra,	B.A Hons. English Part III
Bidhu Khanna	B.A Hons. Geography Part III
Anshika Singh	B. A Hons Philosophy Part III
Kunjali Kshavi	B. A Hons Political Science Part III

Publications

Anindita Roy Saha (co-authored with N. Gupta, and M. Bhattacharjee) (co-authored with G. Kontala, et.al.). (2021). 'Emerging trends for high-value agricultural products in India: Production, consumption and the nutritional fallout'. Indian Journal of Economics and Development, 7(4), 821 - 830.

Anita Swami. (2021). 'BhāratīyaJnānaParamparāmeinStrīśakti'. Shodha Prabha, 4(NA), 75 - 89.

Madhulika Sonkar (co-authored with Benazir Ruqayya). (2021). 'Journeys between Khauf and Khairiyat: Thinking through friendship in the 'field''. Kohl: Journal of Body and Gender research, 7(1), 123 - 138.

Manju Bala. (2021). 'Reliability analysis and modeling of green computing-based software systems. Recent Advances in Computer Science and Communications, 14(4), 1060 - 1071.

Meeta Virmani (co-authored with Reema Lamba). (2021). 'Rashtriya Shiksha Neeti 2020: Ek Samiksha'. Akshara Multidisciplinary Research Journal, 5(6), 140-145.

Nawin Kumar Tiwary. (2021). 'Conservation monitoring of a polluted urban river: an occupancy modeling study of birds in the Yamuna of Delhi'. Urban Ecosystems, 24(6), 1399 - 1411.

Seema Jangra. (2021). 'Symmetric Encryption based SecureData Forwarding in Vehicular Delay Tolerant Network'. International Journal of Computer Science & Communication, 12(2), 18 - 27.

Shubhda Chaudhary (co-authored with Vanshika Gupta, and Soumi Dutt. (2021). 'Colour Symbolism across Cultures: A Dichotomy between German and Indian Contexts'.

International Journal of Social Science and Economic Research, 6(5), 1545-1580.

Veena Gupta, (co-authored with Pooja Jaggi). (2021). 'Gender Differences in Moral Development: Kohlberg-Gilligan Debate'. The International Journal of Indian Psychology, 9(3), 1941-1956.

Vimala Parihar. (2021). 'Improving Image Quality with Quadtree Decomposition and Huffman Coding' Tolerant Network'. International Journal of Advances in Computer and Electronics Engineering, 6(6), 1 - 9.

Journals

Apoorva Kapur, Shambhavi Misra, Muskan Tyagi. (2021). Code Journal of Translation. Annual, 7(7), 1 – 174.

Research Projects

JETREG, 2021, Journalism Education Trauma and Research Group.

Seminars Organized

Dr. Gautam Bhan, Associate Dean - School of Human Development, Indian Institute for Human Settlements, Pandemic and the City, Pandemic and the City, 7 March 2022.

Pragati Goyal, Clinical Psychologist, Let's Conquer it: Coping with Career related Anxiety and Future Apprehensions, coping with Career related Anxiety and Future Apprehensions, 21 January 2022.

Dr. Surabhika Maheshwari, Associate Prof., Department of Psychology, IP College, Post Covid Care, Physical and Mental Health, Post Covid Care, Physical and Mental Health, 10 July 2021.

Prof. Bishnupad Mohapatra, Department of Law, Lal Bahadur Shastri National Sanskrit University, Shantaben Nancybhai Popat Memorial Lecture "Nyaya Darshan ki Prasangikta Covid 19 ke Sandarbh Mein, "Nyaya Darshan ki Prasangikta Covid 19 ke Sandarbh Mein, 28 April 2021.



Dr. Neha Mishra, Department of Environment Studies, IP College, Nadi Ko Jaano, Nadi Ko Jaano, 30 November 2021.

Conferences Organized

7th Round Table on Conference on Gandhi and the Ethics of Consumption, organized on 25 February 2022.

Cinematic Geography Mapping through the Lens – 5 sessions, on 22 January 2022.

Lecture Series on Public Health – 4 sessions, 15 January 2022.

Conference on Contesting Spaces and Narratives of Nationalism, on 8 September 2021.

Conference – Lecture Series on Samaj Vigyan: Jaati, Varg, ling aur Bhasha, organised on 7 April 2021.

Seminar/Conference Presentations

Dr. Jaya Mishra, Department of Political Science, presented a paper titled 'Status of Persons with Disabilities in Ancient India' at the International Conference on Advancements in Interdisciplinary Research (ICAIR-21) on 2021, October 28.

Dr. Namita Mathur, Department of Economics, presented a paper titled 'Living Conditions for Migrants: Evidence from the Slums in Delhi' at the XV International Conference on Public Policy and Management organised by IIM Bangalore on 2021, August 25.

Prof. Babli Moitra Saraf presented on: "Translation of Life: Communicative Struggle in the Global South", at the Inaugural Colloquium, "Re-envisioning Translation Studies", of the Nida Centre for Advanced Research on Translation, on 2021, July 28-29.

Prof. Rekha Sethi has presented on 'Challenges of Teaching Hindi in a Multilingual Scene' at the online Annual Conference of South Asian Language Teachers Association (SALTA) on 2021, June 25.

Dr. Shagufta, Department of Political Science, presented a paper titled 'Imagining A Nation Through the Lens of Cinema: A Study of Dominant Narrative and Counter Narratives in Contemporary Hindi Cinema' at the online International Paris Conference on Social Sciences-VI, 2021, July 09-11.

Dr. Vinita Sinha, Department of English presented a paper titled 'Silent Stories in Art: An Extension of Oral History,' at the International Oral History Association (IOHA) virtual conference on 2021, August 26.

Dr. Meenakshi Khanna, Department of History presented a paper at an online International Workshop organised by the Institute of Iranian Studies at the Austrian Academy of Sciences on the theme 'The 17th century in India: Events, Society, Thought & Art' held from 2021, April 07-10.

Dr. Aahana B. Chopra, presented a paper titled 'A Study on the Digital Social Lives of Children in India' at the 28th AMIC International Annual Conference on Science Communication on 2021, November 27.

Dr. Divya Mehta, Department of English presented her paper titled 'Worlding the Historical: (Post) colonial Historiography and its Debts at Conference organised by the American Comparative Literature Association (ACLA) on 2021, April 08.

Ms. Bithika Gorai presented her paper titled 'Exploring the Novelistic Genre in India with special reference to Bangla Mahabharata narratives in medieval period at the Conference organised by the REVA University Bangalore, ISPELL and Liverpool Joh Moores University, Liverpool, England, 2021, August 30-31.

National/International MoUs Signed

Balipara Trust and Frontier Foundation, Chintan Environmental Research and Action Group, The President and Fellows of Middlebury College, Middlebury College, Vermont, USA, Greenobin Recycling Private Limited.

Placement Details

129

Number of Companies visited for Campus Recruitment

42

Extension and Outreach Activities

The College, as part of its ISR and Community Outreach program, organised a Webinar series on 'Post Covid Care – Physical Health and Mental Health'.

The Department of B.A Program's community outreach program on mental health 'Project



PARWAAZ' organized a workshop on Suicide Prevention, as well as one on coping with career related anxieties and future apprehensions.

The Department of Psychology held a Mental Health Awareness week, with webinars, workshops and lectures. It has organized a 36-hour online Certificate Course on Peer Facilitator Training, which is ongoing. The highlight of this course is that all the resource persons are alumnae of the Department of Psychology, working with mental health.

The NSS unit of IP College conducted significant activities under their program 'Fight Against Covid'. Volunteers were required to translate an advisory provided by the Health Ministry of India, on home isolation for COVID-19 patients, in their own regional languages, in order to make the information more accessible to different populations of India, resulting in translations from Hindi and Pahadi, to Tamil and Assamese.

The College received 356 applications for financial assistance and waivers. With the support of the Governing Body, financial relief in the form of full fee waivers was provided to BPL students, and Fee Concession, instalment payments, and other kinds of assistance, was extended to each and every student who had applied under the distress situation of the pandemic. As special assistance, full fee waiver was given to an Afghan student to continue her education in consideration of the ongoing strife in Afghanistan. The College also provided laptops to all EWS students who requisitioned the same.

Project 'Dhyan', the Community Outreach Program of the Department of Geography, was nominated by University of Delhi for RISE U21. IPCW was the only college to be nominated in this international competition for sustainability and social innovation and finished amongst the 55 finalists.

Library Development

The College Library consists of 96534 books. A total of 399 books were added in the Library (Main Accession Register) during 2020 – 2021. Total number of E-Resources (CD/DVDs) is 349. The Library subscribes for 87 Academic Journals, 25 Magazines. Library tasks initiated and performed during the year include, Processing of bills of procured library documents, maintenance and upkeep of library documents and library building against termite and dust. New Membership, renewal and issue of e-library clearance to library users. Updating of library portal/website with all necessary links and in-house digitized university question papers. Issuing of User-

ID and password to students and faculty to facilitate remote-access of NLIST/DULS e-resources. Also, acknowledgement of E-Delivery requests from Visually Impaired students and other library users.

Issue and return of library books under Close-Access-Environment by adhering to COVID- 19 guidelines. Issue and return of books under Inter-Library-Loan from DELNET (31 books). Stock taking of library documents completed in time.

In addition, the organization of and participation in webinars/workshops/meetings/lectures by the Librarian with the Library committee under the aegis of IQAC.

Library Extended Services include Punjabi, Bengali, Hindi, Sanskrit and English Book shelved in the Translation and Translation Studies Centre maintained by the Library Staff. Special services to differently-abled users provided in the EOC/Enabling Unit with the vision of providing library services under one roof to visually impaired students. Museum and Archives Learning Resource Centre-Library facilitates access to visitors, researchers and members of the college community.

Faculty Strength

176

Financial Allocation and Utilization

Fund Allocated: Rs. 42,34,70,000/-

Fund Utilized: Rs. 45,69,60,000/-

INSTITUTE OF HOME ECONOMICS



Brief History

The Institute of Home Economics (IHE) is a constituent college of the University of Delhi. Situated in the heart of South Delhi, it is a premier institute imparting education to women. Established in the year 1961 with a two-year diploma course in Home Science, it became a part of the University of Delhi in 1969. The college celebrated its Silver Jubilee in 1986 and the foundation stone of the new building was laid in 1987 by the then President Giani Zail Singh. In 2011, the college celebrated its Golden Jubilee with a series of national workshops, seminars and an oration by former President Dr. APJ Abdul Kalam. Over the years, the Institute has grown tremendously. Beginning with just 80 students, today it has a strength of 1900 students, tutored by almost 100 faculty members and about 125 non-teaching, administrative and auxiliary staff. The college offers a bouquet of courses, including seven undergraduate courses in Home Science (Pass and Hons), Microbiology, Biochemistry, Food Technology, Journalism and Elementary Education and four post-graduate programmes in the domains of Food and Nutrition, as well as Fabric and Apparel Science. The college also offers a Ph.D. programme in Home Science. Of the many achievements of the college, the most important ones during the last few years include NAAC 'A' certification, FIST Grant (2016-2021) from Department of Science and Technology and the Star College Scheme grant from Department of Biotechnology.

Major Activities and Achievements

Despite facing the challenges imposed by the COVID-19 pandemic, Institute of Home Economics conducted several activities, such as webinars, workshops, trainings, competitions, internships, visits etc. throughout the year besides regular academic activities. Eminent educationists, practitioners, government officers, heads of organisations were invited to interact with students and staff in both online and offline mode. A number of International and National days like International Cancer Day, World Malaria Day, International Literacy Day, Hindi Diwas, National Nutrition Month, Poshan Pakhwada, World food Day, International Women's Day, Children's Day, World Social Justice Day, International Day for Disaster Reduction, etc. were celebrated by organizing various activities. Certificate courses on "The Art and Techniques of Podcasting" and "Event Management" in blended/offline mode were also organized.

The Annual Cultural Fest, FERIA-2022 was a three-day event held in a dual mode in which competitions such as creative writing, poetry, debate, treasure hunt, fashion show, business plan presentation, classical and western dance, mime making, singing and calligraphy etc. were organized. The college celebrated Azadi ka Amrit Mahotsav by hosting various events and webinars with great enthusiasm.

The college took many initiatives to develop new ways of making the campus eco-friendly. In order to reduce its carbon footprint and become more ecologically conscious, the college has installed 22 solar lights on its



campus as a sustainable alternative to standard street lights.

The college has also greatly improved its green cover by increasing the quantity of potted plants, constructing a herb garden, and establishing its own seed bank. On campus, there are over 100 plant species, including 16 types of medicinal herbs. The institutional success story of the Institute of Home Economics was showcased in the monthly Swachhta Action Plan Implementation Program of February 2022, organized by Mahatma Gandhi National Council of Rural Education, Hyderabad. The college was recognized for its successful implementation of Project "SORT: Segregation of Organic Waste for its Treatment & Recycling Phase II" and active active participation in the nation-wide campaign, 'Nadi ko Jano' - Know Your Rivers Campaign. It also received recognition from the NGO 'Umeed - A Drop of Home' for participation in Stationary Donation drive conducted by NSS IHE volunteers.

The students of the college participated in an International Exchange event titled "Let's Talk Together! SDGs through International Exchange - Think, Discuss & Act Globally". They created and presented a documentary titled 'Hunger - A Lost War?' and Team India comprising of our students won the "Best Presentation Award" at the event.

Honours/Distinctions

Prof. (Dr.) Geeta Trilok-Kumar: Special Appreciation Award by the University of Delhi in the 'College Principals in service' category Ms. Shivali Sahni received the University Medal for securing First Position in M.Sc. Fabric and Apparel Science.

Ms. Palak Nagpal was awarded Swachhta Saarthi Fellowship (SSF) 2021 under Waste to Wealth Mission, spearheaded by The Office of the Principal Scientific Adviser to the Government of India, housed at Invest India.

Ms. Sejal Bajaj received 2nd Prize in Green Art Challenge, Harit-Prem Bharat Mahotsav 2021 organised by Prem Jain Memorial Trust.

Ms. Anchita Paul received 2nd Prize in the Millet Recipe Competition organized by National Institute of Food Technology, Entrepreneurship and Management, Thanjavur.

Dr. Seema Puri: 11th Rajammal P Devadas Memorial Award by the Nutrition Society of India and Nutrition

Leadership Excellence Award by NIFTEM and Ministry of Food Processing, GOI.

Dr. Sunita Aggarwal: Best Teacher Award (Delhi State) by the Microbiologists Society, India.

Students with Distinctions

Name of the Students	Class
M.Sc.	

Fabric and Apparel Science
B.Sc. Home Science (Pass)

B.Sc. Home Science (Pass)

B.Sc. (Honours) Food
Technology

Ms. Syed Muskan has got 10 articles published in a regional newspaper 'Rising Kashmir'.
B.A.

(Honour
Journalism)

Publications

Arora, P., & Aeri, B.T. (2021). Association between high pre-pregnancy body mass index and antenatal depression: A study among pregnant women of upper socio-economic strata in North-West Delhi, India. *Clinical Epidemiology and Global Health*, 11, 100-787.

Bhat, Z.I., Naseem, A., Kumar. B., Ponnusamy, K., Tiwari, R.R., Sharma G.D., & Rizvi, M.M.A. (2021). Association of PARK-2 non-synonyms polymorphisms and them in-silico validation among North Indian colorectal patients. *Journal of Gastrointestinal Cancer*.

Chaudhary, N., Dangi, P., Chaudhary, V., Dewan, A., Sharma S.P., Poonia, A., & Kumar M. (2021). A review on instant controlled pressure drop technology – a strategic tool for extraction of bioactive compounds. *International Journal of Food Science & Technology*.

Chaudhary, N., Viridi, A.S., Dangi, P., Khatkar, B.S., Mohanty, A.K., & Singh N. (2022). Protein, thermal and functional properties of α -, γ - and ω -gliadins of wheat and their effect on bread making characteristics. *Food Hydrocolloids*, 124(Part A), 107-212.

Iqbal, M. A., Siddiqui, S., Ur Rehman, A., Siddiqui, F.A., Singh P., Kumar B., & Saluja, D. (2021). Multiomics integrative analysis reveals antagonistic roles of CBX2 and CBX7 in metabolic reprogramming of breast cancer. *Molecular Oncology*, 15(5), 1450-1465.

Malik, A., Gusain, Y., Pathak, R. & Trilok-Kumar G. (2021). Food Consumption Pattern of Adolescents in Delhi-NCR Born Full Term with Low Birth Weight with Reference to the New Estimated Average Requirement. *Journal of Clinical and Diagnostic Research*, 15(6), 23-28.

Jain, P., & Gupta, C. (2021). Sustainable journey of handmade paper from past to present: A review. *Problemy Ekorozwoju- Problems of Sustainable Development Journal of The European Academy of Science and Arts, Salzburg, Austria*, 16(2), 233-244.

Sen, A., Nigam, A. & Vachher, M. (2022). Role of Polypeptide Inflammatory Biomarkers in the Diagnosis and Monitoring of COVID-19. *International Journal of Peptide Research and Therapeutics*, 28(2), 59.

Singh T., Nigam, A. & Kapila, R. (2022). Analyzing the Use of Medicinal Herbs During the First Wave and Second Wave of COVID-19. *Proceedings of the National Academy of Sciences, India. Section B. Biological Sciences*, 92(1), 219-222.

Vachher, M., Sen, A., Kapila, R., & Nigam, A. (2021). Microbial therapeutic enzymes: A promising area of biopharmaceuticals. *Current Research in Biotechnology*, 3(NA), 195-208.

Research Projects

Bill and Melinda Gates Foundation (BMGF) through Biotechnology Industry Research Assistance Council (BIRAC), 2019-21 / 3 years, Healthy Birth, Growth and Development Knowledge Integration (HBGDKI) Initiative, 5.3410.

ICSSR, 2020-22 / 2 years, Examining Exclusion of Community-School Axis: An Ethnographic Study of a Lower Class Urban Settlement in South Delhi, 9.1600.

IIHS, Bangalore, 2021-22 / 1 year, Education, Margins and City: Examining the Linkages through an Ethnographic Exploration, 8.0300.

Medical Research Council, Global Health Nutrition, UK, 2021-24/ 3 years, Long-term health after severe acute malnutrition (SAM): the role of the Pancreas- (SAMP), 149.2898.

The Wellcome Trust UK/ DBT India Alliance, 2018/ 5 years, to improve understanding of interactions among intra-uterine growth retardation, early growth, gut permeability, body fat and risk of chronic disease in low birth children, 429.2197.

Seminars Organized

Dr. Amit Mittal, Prof. (Management) & Dean (Doctoral Research Centre, CBS), Chitkara University, Punjab, Literature Review and Defining the Research Problem, Literature Review and Defining the Research Problem, 01 April 2021.

Prof. Colin Hill, Prof., University College Cork, Ireland, Probiotics: Alternative medicine or an evidence-based alternative? Probiotics, 07 October 2021.

Prof. J. S. Viridi, Former Prof., Department of Microbiology, University of Delhi, Biowaste and its management, Biowaste and its management, 15 November 2021.

Prof. Shashwati Goswami, Prof., Indian Institute of Mass Communication, Ethical Challenges of Journalism, Ethical Challenges of Journalism, 28 October 2021.

Dr. Shobha Udipi, Honorary Director, Integrative Nutrition and Ayurceuticals, Medical Research Centre-Kasturba Health Society, Mumbai, the way ahead for good health: Can Ayurveda be our lamp shedding its light for the 21st century? Ayurveda and Nutrition, 21 September 2021.

Conferences Organized

E-Summit-2021 on "Entrepreneurship- Sensing Opportunities & Building Resilience", 23 October 2021, ISHRAE, AEPL, ABS Airtech, Astberg Ventilation.

International Virtual Symposium "Recent Trends in Brain Research: Unlocking the Mysteries", 22 March 2022, Institute of Home Economics, under the aegis of 'DBT Star College Scheme' in collaboration with International Brain Research Organization Asia Pacific



Regional Committee (IBRO-APRC) & Indian Academy of Neurosciences (IAN, Delhi-NCR Chapter).

National Symposium on “Ethics in Social Science Research and Publication”, 09 April 2021, Institute of Home Economics.

Seminar/Conference Presentations

A. Mishra, Chanchal and B. Kaur their paper on “Occupational Health Hazards in Small Scale Garment Manufacturing Units” at International Conference on Fashion Apparel and Textile organized by Amity School of Fashion Technology, Noida, 2021, November 17-16.

Chanchal, Bhupinder Kaur and Shefali Singh presented research on “Healthcare and Safety Facilities in Knitting Units” at International Conference on Multidisciplinary Approaches in Humanities, Management and Sciences, 2021, April 30.

Gauri Bhagat, Urvashi Lomas, Bhupender Kumar and Taruna Arora presented “Assessment of the various iodine detection methods in biological samples” at International Virtual Conference on Plant Physiology and Biochemistry, 2022, January 19.

Jyoti Dalal presented her research work “Reflections on the Intersection of Violence, Exclusion and Identity” at 11th International CESI Conference on Mapping Education in Times of Covid-19, 2021, December 17-19.

M. Imran Parray presented the paper on “Between ‘Colonial’ Governmentality and ‘Oriental’ Despotism: Metaphor, Satire, and Humour in Early Twentieth-Century Kashmir” at Speaking as the ‘Other’: Calliope International Conference, Department of Cultures, Faculty of Arts, University of Helsinki, Finland, 2021, May 11.

Neeti Vaid and Bableen Kaur presented their research work on “Digital Literacy: A Tool for Women Empowerment during COVID-19 Pandemic” at National Webinar on ‘Socio- Economic-Political Implications of COVID-19 on Women in India’ sponsored by ICSSR, organised by Kalindi College, University of Delhi, 2021, June 10-11.

Pratima Singh presented “The Complexity of SARS-CoV-2 Virus Transmission in the Indoor Environment at Public Facilities” at Webinar on “IAQ factors responsible for COVID transmission”, 2021, August 10.

Ruchi Mittal and A. Ahuja presented “Exploring Mathematical Task Designed by Pre-service Teachers” at 14th International Congress on Mathematical Education, Shanghai, 2021, July 11-18.

Savita Aggarwal and Jagriti Kher presented their research “Gender-based Risk Assessment to Climate Change: Quantification at Sub- National Level in India” at GENERATE Workshop Decolonizing Gender & Climate Change in the Global South organized by UK Research & Innovation, University of LEEDS on 2022, February 24.

Suneeta Mishra, presented her paper on “Metaphorical Extensions of the Color Term kaala ‘black’ in Hindi: A cultural-cognitive view” at Cultural Linguistics International Conference (CLIC) 2021, Budapest, 2021, June 16-18.

National/International MoUs Signed

Under Vidya Vistar scheme of the University, Institute of Home Economics has signed an MOU with Government Zirtiri Residential Science College, Aizawl, Mizoram.

Placement Details

12

2.66%

Number of Companies visited for campus recruitment

Many reputed organizations in the field of graphic design, education, food and nutrition, and business development activities approached the college via mail. These were - FISCI (Food Industry Capacity Skill Initiative), College to Corporate, Labdox, Burger Singh Vardhan Consulting Engineers, Unacademy, Sea Lord Entertainment, Value Jobs Consulting, Career Munch, Ideate, Choice Monk Techno Solutions, Pathways School, etc.

Extension and Outreach Activities

Through its community outreach activities, the college has consistently attempted to comprehend and interact with issues of regional and national



significance. The environment committee, the National Service Scheme (NSS), students' societies and departments of the college are the multiple platforms through which our students engage in raising awareness and trying to address the local concerns of the community.

As part of their social responsibility, food and nutrition and food technology students regularly engage in community outreach activities to inform community members how to improve their nutritional status and develop healthy lifestyles. In 2021-22, interactive sessions in online and offline mode were conducted for school/college students, women, and beneficiaries of ICDS scheme and NGOs on topics such as "Understanding PCOS & its Reversal through a Healthy Lifestyle", "Combating Adolescent Obesity", "Healthy Gut for a Healthy Life", "Food Safety: Everyone's Business", "Infant and Young Child Feeding" and "Food Adulteration". A combination of traditional and modern methods of communication were used for conducting these sessions.

The final year students of B.Sc. Home Science (Pass & Honours) were introduced to the 'Each One Enable One' programme. Under this programme, each student selects one subject/learner (children/adult) from a community, who could be illiterate, semi-literate and drop out from the underprivileged section of the society. The students are required to complete 120 Hours in which they are supposed to impart basic literacy in 3R's (as defined in National Literacy Mission) namely; Reading, Writing and Arithmetic. Along with this, students impart digital skills to their learners. Due to the ongoing COVID-19 pandemic, students selected their own family members or close relatives to continue the process of imparting education and learning, and provided hands-on training on digital literacy to their learners.

An online event titled "Kahani Unsuni" was organized for children aged 11-15 years to celebrate Children's Day. About 25-30 children from the NGO Gyandeeep participated in this storytelling event.

Community outreach activities carried out by student volunteers of NSS included Donation Drives on Books, Food and Grains, Stationary, and other essential items such as face masks and sanitizers, Anti-Tobacco Rally, Plastic Free Campaign, and Plog Run involving picking up plastics and other wastes from the surrounding

areas such as Mayfair Garden and Hauz Khas while jogging. #LetsTalkPeriod and #MenstruationMatters activity was organised wherein the volunteers distributed sanitary napkins and other menstrual hygiene items to the marginalized and poor women and adolescent girls. Blood Donation Camp was organized in collaboration with "Indian Red Cross Society" in which more than 90 individuals participated including NSS volunteers, college students, teaching and non-teaching staff.

Library Development

The library at Institute of Home Economics, University of Delhi, has a collection of 25738 resource materials which includes textbooks, reference books, thesis and back volumes of journals. It caters to the needs of over 1500 students, research scholars and faculty members. The library circulation services are fully automated using KOHA software. The library has two reading halls with a seating capacity of eighty students.

During the financial year 2021-2022, the library acquired 111 new books worth Rs. 1,14,658. In addition to books, the library also provides e-resources to its faculty members, research scholars and students which are subscribed by Delhi University Library System (DULS). E- resources include e-databases, e-books, e-journals subscribed by DULS and e-Shod Sindhu. College also has a subscription to N-LIST. Library provides remote access service to its faculty members, research scholars and post-graduate students (DULS remote access platform). Library orientation programs were organized for the first and second-year students in on-line and physical mode to acquaint the students with library resources. M.Sc. students were also oriented to accessing e-resources subscribed by DULS. In the past one-year library has been providing plagiarism check services to faculty members and research scholars using URKUND.

Faculty Strength

89

Financial Allocation and Utilization

Fund Allocated: Rs. 209,8,00,000/-

Fund Utilized: Rs. 31,87,11,610/-

INSTITUTE OF HUMAN BEHAVIOR & ALLIED SCIENCES



Brief History

IHBAS was earlier known as Hospital for Mental Diseases (HMD) which was established in 1966. In 1993, the erstwhile HMD was converted to Institute of Human Behaviour and Allied Sciences in compliance with the directives of the Hon'able Supreme court in response to public interest litigation in 1993. The Institute is an autonomous body registered under the Societies Act 1860, funded jointly by Ministry of Health and Family welfare, Government of India and Government of NCT Delhi. Minister of Health, Govt. of NCT Delhi is the President and Chief Secretary, Govt. of NCT Delhi is the Chairman of the Executive Council of the Institute. In 2000, as a part of transformation of IHBAS to teaching and research institute, the post graduate courses were streamlined with faculties joining in major clinical and supportive departments. In the next five years the focus was on strengthening the existing infrastructure and patient care services. Standard operating procedures were defined and implemented to ensure the uniformity of care. The mission is to advance mental and neurological health of population by practicing evidence based multidisciplinary approach that are novel, adaptive and ethical and conduct research of high standard and develop human resource in these fields.

Major Activities and Achievements

Our Institute continuously looks for ways to upgrade its facilities for the patients' care and comfort. Since the advent of COVID-19 pandemic, IHBAS established a Preventive Isolation Facility (PIF) to isolate patients with suspected COVID-19 or patients with atypical symptoms. Homeless destitute patients were given preference for admission in Preventive Isolation facility (PIF). Sample collection centre was established in OPD premises for COVID-19 RTPCR and lineages were set for sample processing. Besides basic clinical services, 24X7 Emergency services telemedicine facilities, Skype counselling services and crisis support and counselling needs were also made available at IHBAS & the general public were encouraged to avail these facilities. IHBAS has ensured adequate supplies of essential PPE, N95 masks, surgical masks, sanitisers, hand rub, face shields, goggles, gloves, head caps, shoe covers during this pandemic. IHBAS provided mental health care to the children from several child protection homes, homeless children brought by police, children who are addicted to substance, children in conflict with law. Mobile Mental Health Unit (MMHU) Service Network of Delhi has been expanded from 02 Units to a total of 11 Units. It is an innovative and specialized service to bridge the treatment gap in mental health services. Geriatric-Psychiatric OPD for elderly patients with psychological problems has also been started. The information about the hospital services during COVID-19 crisis has been put up on IHBAS website & also being brought out in newspaper for wider public dissemination.

Honours/Distinctions

Dr. R K Dhamija was conferred the prestigious national award for outstanding efforts in science and technology communication in electronic medium for 2021 on 28 February 2022.

Dr. Suman received prestigious WSO ANGELS AWARDS Q2 2021 "PLATINUM STATUS" from World Stroke Organization for stroke services.

Dr. Nishtha Chawla and Dr. Mahadev Singh Sen were conferred Bhagwat Award for best research paper in early career, 74th Annual National Conference of Indian Psychiatric Society (ANCIPS) 24 to 26 March 2022, Vishakhapatnam, Kerala, India.

Dr. Arvind Arya received "Medal of Excellence" particularly for "Resuscitation & Life support trainings in COVID pandemic" in Award Ceremony during Annual Day & Conference of IMAEDB on 15 April 2021.

Publications

Dr. Arvind Arya received "Medal of Excellence" particularly for "Resuscitation & Life support trainings in COVID pandemic" in Award Ceremony during Annual Day & Conference of IMAEDB on 15 April 2021. (2021). Clinical profile and outcome of non-COVID strokes during pandemic and the pre pandemic period: COVID-Stroke Study Group (CSSG) India. *J Neurol Sci*, 428(-), 117583.

Bapat P, Kushwaha S, R K, Gunasekaran A, Seth V. (2022). Relapsing-remitting subacute sclerosing panencephalitis: A case report. *J Med Virol*, 94(7) (-), 2933-2935.

Talwar P, Kushwaha S, Rawat C, Kaur H, Srivastava A, Agarwal R, Chandna P, Tucci P, Saso L, Kukreti R. (2021). Validating a Genomic Convergence and Network Analysis Approach Using Association Analysis of Identified Candidate Genes in Alzheimer's Disease. *Front Genet*, 12, 722221.

Seth V, Kushwaha S, Gupta, C, Bapat P, R K. (2021). Epilepsia partialis continua as the presenting feature of anti-NMDA receptor encephalitis in a young male. *Neurol Sci*, 42(9), 3911-3913.

Khurana S, Gourie-Devi M, Sharma S, Kushwaha S. (2021). Burden of Stroke in India During 1960 to 2018:

A Systematic Review and Meta-Analysis of Community Based Surveys. *Neurol India*, 69(3), 547-559.

Anthony A, Maheshwari S, Kushwaha S, Patel P, Gunasekaran A, Chaturvedi M, Singh S. (2021). Pseudo-Myotonic Reaction and Pseudo-Polyneuropathy Type Sensory Disturbances in Chronic Cervical Compressive Myelopathy. *Neurol India*, 69(6), 1867-1868.

Pradhan S, Bansal R, Das A, Pardasani V, Malhotra HS, Kushwaha S, Mishra, VN. (2022). Osteo-Cutaneous Trophic Changes in Complex Regional Pain Syndrome and their Reversal with Steroids. *Neurol India*, 70(3), 1119-1124.

Sharma S, Kapoor K, Nasare N, Bhardhwaj A, Kushwaha S. (2022). Development of a Trigger Tool to Identify Adverse Events and Harm in a Neuropsychiatry Setting. *J Patient Saf*, e343-e350.

Tripathi CB, Gangania M, Kushwaha S, Agarwal R. (2021). Evidence-Based Discriminant Analysis: A New Insight into Iron Profile for the Diagnosis of Parkinson's Disease. *Ann Indian Acad Neurol*, 24(2), 234-238.

Talwar P, Kushwaha S, Chaturvedi M, Mahajan V. (2021). Systematic Review of Different Neuroimaging Correlates in Mild Cognitive Impairment and Alzheimer's Disease. *Clin Neuroradiol*, 31(4), 953-967.

Research Projects

Indian Council of Medical Research (ICMR), 2019-2022, Determination of efficacy of 9 months, 12 months and 18 months of antitubercular treatment in patients of tuberculous Meningitis – A randomized controlled non-inferiority trial, Rs. 10 Lakhs.

Department of Science and Technology (DST) - Govt. of India, 2021-2023, "Mapping of cognitive pathways in Indian Ageing population", Rs. 92 Lakhs.

Indian Council of Medical Research (ICMR), 2022-2024, Fever, hyperglycemia, swallowing and hypertension management in acute stroke: A cluster randomized controlled trial (Indian Quality Improvement in Stroke Care study), Rs. 17,85,250/-



Indian Council of Medical Research (ICMR), 2022-2025, STENOSIS: Longterm Single versus Dual Antiplatelet Therapy in Patients with Ischemic Stroke due to Intracranial Atherosclerotic Disease: A Randomized Trial, Rs. 5,37,969/-

Indian Council of Medical Research (ICMR), 2022-2027, Indian Multiple Sclerosis and Allied Demyelinating Disorders Registry and Research Network., Rs. 2,47,200/-

Seminars Organized

Dr. Naveen Grover, Asst Prof. Clinical Psychology IHBAS, Single case studies, Psychotherapy, 9 March 2022.

Dr. Sangeeta Sharma Prof. Neuropsychopharmacology IHBAS, Antimicrobial Stewardships-interventions and action, Certificate course on Antimicrobial Stewardship, 13 September 2021.

Dr. Renu Gupta, Asst. Prof. Microbiology IHBAS, Infection Prevention and Control, Diagnostic Stewardship and Assessing AMS programs, Certificate course on Antimicrobial Stewardship, 15 September 2021.

Dr. Pravin Yannawar, Asst. Prof. Psychiatric social work IHBAS, Counselling Skills in Epidemic and Post Covid Era: case based illustrations, Sensitization for mental health in Epidemic and Post Covid Era, 28 August 2021.

Dr. Arvind Arya, Asst. Prof. Anaesthesia IHBAS, Resuscitation during COVID pandemic, Resuscitation protocol during COVID pandemic, 10 November 2021.

Conferences Organized

Training and Review Workshop of the NAC-NET sites, on 29 September 2021, World Health organization and National centre for disease control, Delhi.

National Training of Trainers to Strengthen Infection Prevention & Control, 25 November 2021, World Health organization and National centre for disease control, Delhi.

Advanced cardiac life support Course, 17 November 2021, Govt. of NCT Delhi.

A conference on Rational use of Oxygen and Oxygen therapy, 10 December 2021, Govt. of NCT Delhi.

Seminar/Conference Presentations

Chaturvedi S presented in the session 'Case Based Learning'. AOCN-NPSICON 2021, 5th Annual National Conference of Asia Oceanian Society of Neuropathology (AOCN) Congress with Neuropathology Society of India (NPSICON 2021), 2021, September 24-26.

Pant I presented in the session 'Case Based Learning'. AOCN-NPSICON 2021, 5th Annual National Conference of Asia Oceanian Society of Neuropathology (AOCN) Congress with Neuropathology Society of India (NPSICON 2021), 2021, September 24-26.

Dr. Purna Sharma Delivered an invited talk on "Integrating somatic therapies in traditional CBT as a trauma informed approach" at the International conference for cognitive behavioral interventions-ICCB November 2021.

Singh Ravinder (2022). Presented a paper "Trajectory of Lived Experiences from Anthropology to Medical Anthropology", on 5 January 2022 at 8.00 pm (virtual mode) in International Symposium on Auto-ethnography and Narratives (ISAN), 2022, January 03-05 organised by IAANI, Bready University, Illinois, USA.

Singh Ravinder (2021). Presented a paper on Anthropology of Care in Neurological patients in Panel 47.1 Anthropology, Health and Differences: Between Agency and Power Relations, Thursday, 2021, November 11 at 7.30pm during the IUAES Inter Congress-2021(Virtual Mode), Mexico.

Dr. Deepak Kumar-Poster presentation titled Amantadine use in paediatric catatonia - a case series at Annual Conference of Indian Psychiatric Society (ANCIPS) at Vishakhapatnam in March 2022.

Dr. Renu Gupta, Speaker and panelist for WHO symposium on Antimicrobial Resistance: "Role of Microbiologist in translating global and national priorities at the local level" in Annual conference of Indian Association of Medical Microbiologists



(MICROCON-2021) held at Guwahati, Assam from 2021, December 22-23.

Dr. Mahadev Singh Sen-Presented paper on “A comparative study of sexual behaviour, dysfunction, satisfaction, relationship and sexual quality of life amongst treatment naïve and abstinent men with Opiod dependence syndrome Annual Conference of Indian Psychiatric Society (ANCIPS) at Vishakhapatnam in March 2022.

Dr. Aparna Goyal- Poster presentation: Awareness and challenges in Psychiatric advance directives among mental health professionals in WASP Asia Pacific Hybrid Congress 2021 held from 2021, September 16-18. September at New Delhi.

Gupta, A, Dwivedi T. E-Poster presentation entitled “Improving blood transfusion by curbing ‘near miss’errors in transfusion chain at a blood storage centre of a tertiary care hospital in virtual 9th TRANSMEDCON held from, 2021, December 17-19.

Extension and Outreach Activities

IHBAS as apex neuropsychiatry institute has, since its inception in 1993, strived to expand the patient care services beyond the hospital-based care to community.

Various kinds of community-based initiative being under taken by IHBAS which included Community Outreach Services under District Mental Health Programme, Community Outreach Initiatives for Homeless Population, Community Awareness Activities Liaison with User and Carer Groups. In addition, efforts at Communitization for in-patient at IHBAS Mobile Mental Health Unit (MMHU).

Library Development

As a part of library development, 383 books were added. The library subscribes to eighty-one Foreign journals and thirty-eight Indian journals. Internet facility is provided to the students and faculty. Twenty e-journal Karger packages of e-resources and 43 e-books included. Online journals were made available to the users under NMLERMED. WHO Resources are also available.

Faculty Strength

37

Financial Allocation and Utilization

Fund Allocated: Rs. 1,32,00,00,000/-

Fund Utilized: Rs. 1,15,19,00,000/-

JANKI DEVI MEMORIAL COLLEGE



Brief History

Janki Devi Memorial College (JDMC) aims to provide quality education to young women and empower them to become self-reliant and contribute meaningfully to the society. In 1959, Shri VKRV Rao, the then Vice-Chancellor of Delhi University appealed to the wealthy philanthropists of the city to come forward to open girls' colleges in Delhi. It was then, founded in the same year by the eminent Gandhian Shri Brij Krishan Chandiwala who had no children, donated all his inherited wealth to the family trust Shri Banarsidas Chandiwala Sewa Smarak Society which in turn funded the establishment of JDMC in memory of his late mother Smt. Janki Devi. The founder, Bhaiji, built this college with single-minded aim of empowering women. Today JDMC is one of the most distinctive institutions of DU. It offers education in liberal arts, social sciences, mathematics and commerce and also offers short-term add-on courses.

The college offers great facilities, good infrastructure and dedicated administration of college premises and affairs. It also has a beautiful hostel for 105 outstation students, which was inaugurated by the former Honorable President of India, Late Shri Pranab Mukherjee. The hostel also houses crèche facilities for all who may require them for their infants.

Major Activities and Achievements

The College was awarded the Green District Champion Certificate for the year 2021-22. The institution has successfully elevated the Swachhta Action Plan (SAP), adopted and implemented best practices in the areas of sanitation, hygiene, waste, water, energy and greenery management JDMC has been awarded the

Swachhta Action Plan Certificate recognizing it as SAP Institution. The College has successfully formed the SAP Committee and constituted the working groups for implementing the SAP.

JDMC received a special Certification of Recognition as a Sustainable Campus by the Mahatma Gandhi National Council of Rural Education, Ministry of Education, GOI. JDMC entered into a collaboration with Mahatma Gandhi Govt. College, Andaman under Vidya Vistar Scheme of Delhi University.

Journal - An interdisciplinary, bilingual, peer - reviewed e-journal - Perspectives - was launched in an online event. This issue had contributions from Sh. M. Venkaiah Naidu, Vice-President of India, among notable others.

Placements - 65 students directly placed in various companies through the Career Opportunity Cell. 279 students were placed as interns in various companies.

Research Projects - JDMC-IQAC Research Centre has facilitated 16 research projects (55 student-faculty research projects; 31 student research projects (all Ongoing and/or completed) in 2021-22.

Honours/Distinctions

Department of Economics Dr. Trisha Jolly Awarded a Ph.D. degree on 18 December 2021, by Amity School of Economics, Amity University, Noida, Uttar Pradesh, for her dissertation titled, 'Determinants of Inflationary Expectations: Insights from Recent Indian Scenario'.

Dr. Puja Pal Awarded a Ph.D. degree on 15 July 2021 by Jawaharlal Nehru University, New Delhi for her dissertation titled, 'Employment Policy & Labour Market Outcomes in India since the Early 1980s: An Assessment'.



Department of English Prof. Swati Pal Awarded the Letter of Appreciation for 'Swacchta Activities in College' 2021-2022.

Dr. Indu Jain Awarded a Bursary to present a paper at the International Federation for Theatre Research in Ireland in the month of July 2022 and was Awarded Eric Auerbach Fellowship (2 Months) in collaboration with the University of Cologne (15 May - 15 July 2022).

Department of Environmental Sciences Dr. Deepak Rawat Appointed as the Nodal Officer for 'Swachh Action Plan Institution' by Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, India (20 December 2021). Additionally, he won the COVID-19 Psychological Research Recovery Award 2021 of 2500 pounds in June 2021 by the British Psychological Society, UK to conduct research work on bioremediation potential of microalgae. The project was carried out in collaboration with the University College London, UK and Department of Environmental studies, University of Delhi.

Department of History Dr. Saumya Gupta, Member, Editorial Board of Perspectives: Peer-reviewed bilingual interdisciplinary journal of Janki Devi Memorial College.

Dr. Manisha Sharma received an International Award for Digital Education by Sri Paramhans Education and Research Trust, New Delhi (27 February 2022).

Dr. Ritesh Kumar Jaiswal Awarded his Ph.D. Degree in February 2022 by the Department of History, University of Delhi, for his dissertation titled, 'Aspects of Indian Labour Migration to Ceylon, Malaya and Burma: A Study of the Kangani and Maistry System (c. 1880-1940).

Department of Human Development and Family Empowerment Ms. Nirmala Muralidhar Empanelled as an Academic counselor for the Masters Course in Counselling and Family Therapy (MSCCFT) in IGNOU (31 January 2020 to December, 2021); Awarded Dr. Sarvepalli Radhakrishnan Excellence Award 2021 in Human Development on National Teacher's Day by Center for Professional Advancement, India (05 September 2021). Felicitated with Teacher's Award for Excellence 2021 in the category of 'Community Outreach and Sensitization' by Love Care Foundation (05 September 2021).

Department of Music Dr. Prerna Arora Appointed Member, Doctoral Research Committee - Department of Music, Delhi University (03 July 2021 – 03 December 2021 and 11 February 2022).

Dr. Gurinder H. Singh Appointed as Subject Expert for Ph.D. DRC of Vocal Department, Shree Arjunlal Hirani College of Journalism and Performing Arts, Rajkot (04 December 2021).

Department of Physical Education Dr. Abha Jain Elected as Convenor of the Executive Committee, Football Delhi (10 March 2022).

Department of Political Science Prof. Rajshree Chandra's book, Competing Nationalisms: The Sacred and Political Life of Jagat Narain Lal (Penguin 2021) was launched by JDMC in collaboration with Centre for the Study of Developing Societies (CSDS) under the aegis of Azadi ka Amrit Mahotsav on 15 January 2022). She was interviewed by Business World on the book Competing Nationalisms: The Sacred and Political Life of Jagat Narain Lal (18 November 2021). She was also awarded the IWM (Institute of Human Sciences, Vienna) visiting fellowship for a visit in May-June 2022.

Dr. Md. Zubeer Ahmed was awarded his Ph.D. degree in September, 2021 by School of International Studies, Jawaharlal Nehru University, New Delhi, for his dissertation titled 'Political Dynamics of Conflict and State in Iraq 1921-68'.

Dr. Debahuti Brahmachari was awarded a Ph.D. degree on 05 July 2021, by Centre for the Study of Law and Governance, Jawaharlal Nehru University, New Delhi for her dissertation titled, 'Maternal Mortality, MDGs and Health Governance.'

Department of Sociology Dr. Rajyalakshmi was the member, syllabus committee for Senior Secondary Level, Sikkim Board (2021).



Students with Distinctions

Name of Students	Class
Kashvi Chandok (Received- Youth Digital Champions Award (Received special mention from the VC, Delhi University on Twitter for Researcher and Independent Journalist on issues of Trans- National Migration Women's Rights and Climate Change)	B.A. (Hons.) English III Year
Soniya Sharma (Secured 1st Position in District Championship organized by District Taekwondo Association, Jaipur)	B. A. (Prog.) III Year
Pooja Dua (Best Short Film, AD, 'The Screams' organized by Tagore International Film Festival)	B. A. (Hons.) English III Year
Torunima Roy (Received Nritya Mani Award in Cuttack Mahotsava organized by Ministry of Culture, Govt. of Odisha)	B.A. (Hons.) History II Year

Publications

Bhardwaj, Ruby. (2021). Risk, causation and containment of Covid-19 pandemic in India: a sociological interpretation. *International Review of Sociology*, 32(1), 10-28.

Chandra, Rajshree. (2021). The Inscription of Law in Life: Intellectual Property and the Commodification of Life. *Journal of Indian Law and Society*, 12(1), 1-21.

Chandra, Rajshree. (2021). The Inscription of Technology in Life: Biotechnology and the Changing Architecture of Property and Rights. *Journal of Indian Law and Society*, 12(2), 1-22.

Gupta, Madhu. (2021). Challenges of Project Leader and Teamwork in Hybrid Work Culture. *International Journal of Education, Modern Management, Applied Science & Social Science*, 3(4), 188-192.

Gupta, Madhu, and Manisha Sinha. (2021). The Impact of Covid-19 on the Pattern of Consumption Expenditure. *International Journal of Creative Research Thoughts- IJCRT*, 9(12), 282-290.

Ishaka, Riho and Saumya Gupta,. (2021). Food, Space and Power in South Asia (Special Issue). *International Journal of South Asian Studies*, 11, 1-3.

Kaur, Navpreet and Kaur, Aman. (2021). Capital, Covid-19 and the Agrarian Question in Punjab. *Journal of Agrarian Change*, 21(3), 638-650.

Kohli, Teena, and Suman Panwar. (2022). Characterizations of Wilson Systems Using Roots of Polynomials. *Results in Mathematics*, 77(2), 1-9.

Nagpal, Payal and Shyamala A. Narayan, (2021). *India. Journal of Commonwealth Literature (JCL)*, 56(4), 592-626.

Rawal, Tanuja. (2021). Bhagwad Gita ke Madhyam se Vaishvik Samasyaon ka Nirakaran. *Jyotirved Prasthanam*, 10(4), 10-14.

Journals

Prof. Swati Pal, Prof. Sandhya Garg Ms. Vandana Madan, Dr. Saumya Gupta, and Dr. Tara Sheemar. (2022). Perspectives- A Peer Reviewed Bilingual, *Interdisciplinary E Journal. Annual*, II, 1-308.

Research Projects

Major Project, Indian Council of Social Science Research (ICSSR), 2019-2021, Ethos of Delhi State- A Gender Inclusive Governance, Rs. 8 Lakhs.

British Phycological Society, UK; University College London, UK; Department of Environmental Studies, University of Delhi, 2021, Iron-Dependent Mutualism between Chlorella Sorokiniana and Ralstonia Pickettii Forms: The Basis for a Self-Sustainable Bioremediation System, Rs. 2.5 Lakhs.

Institute of Eminence, University of Delhi; Department of Environmental Studies, University of Delhi, 2021, Environmental Fate of Textile Dye Based on its Partitioning in Sediment- Water Phases, Rs. 3 Lakhs.



The JDMC-Research Center, 2021, Human Capital - Impact Assessment of Amended Maternity Benefits Act: 2017, Rs. 30,000/-.

The JDMC-Research Center, 2021, The Awareness of Underage Crime and Juvenile Rights: A Study of 11th and 12th standard students of Delhi, Rs. 34,000/-

Seminars Organized

Shri Atul Kothari, Rashtriya Sachiv, Shiksha Sanskriti Utthan Nyas, National Education Policy 2021: Opportunities and Challenges in Implementation, NEP, 28 August 2021.

Ven. Prof. Lengala Siriniwasa Thero, Dean-Faculty of Language Studies & Head- Sanskrit Department, Buddhist & Pali University of Srilanka, Influence of Brahmi Script on Scripts of South Asian Languages, Brahmi Script, 09 February 2022.

Dr. Rajan Kuman, Associate Prof., Center for Russian and Central Asian Studies, JNU), Dynamics of Russia-Ukraine Conflict, Russia-Ukraine Conflict, 24 March 2022.

Dr. Ramachandra Guha, Padma Bhushan, Historian, Columnist, Writer, Memories of Indian Environmentalists, People in Environment, 18 October 2022.

Dr. Shreya Sinha, Lecturer of International Development, University of Reading, India's Political Economy and the Agrarian Crisis, Agriculture and Development, 15 November 2021

Conferences Organized

Circulations, Mediations, Negotiations: New Perspectives on Translation from South Asia, 02 March 2022, IACLALS and JDMC.

Tribes: Learning and Unlearning Tribal Culture, 09 December 2021, Janki Devi Memorial College.

Human Resource Management: Paradigm Shift and Innovative Practices, 04 March 2022, JDMC and Commerce Association.

समकालीन रचनाएँ एवं रचनाकार, 30 October 2021, साहित्य संचय शोध संस्थान

Health, Happiness and Well-being: A Journey through Yoga, 27 August 2021, Indian Council of Philosophical Research, New Delhi Seminar/Conference Presentations.

Dr. Indu Jain presented a paper titled, 'Theatre Ecologies: Environment, Sustainability and Politics', at International Federation for Theatre Research, an International Conference (online), organized by University of Galway (12 July 2021).

Dr. Jayanti P. Sahoo Presented a paper titled, 'VasudhaivaKutumbakam with Special Reference to Spiritualism of Advaita Vedanta and Buddhism,' in the Indian Council of Philosophical Research Sponsored International Webinar, organized by Department of Philosophy, Kishore Bharati Bhagini Nivedita College, Behela, Kolkata (18 February 2022).

Dr. Madhu Gupta, presented a paper titled, 'Team work - New Challenges for Project Leaders,' at 13th International Conference on Industry 4.0 & Key Drivers of Sustainable Global Business Practices (ICSGBP) (Hybrid Mode) in association with AIBPM, Indonesia (8-10 January 2022).

Dr. Manisha S. Agnihotri presented a paper titled, 'DaraShukoh: A True and Tolerant Practitioner of Inter-Faith Studies' at International Conference on 'Inter-Faith Studies in Mughal Times: From Akbar to DaraShukoh', organized by the Department of History, Aligarh Muslim University (14-16 March 2022).

Dr. Navpreet Kaur presented a paper titled, 'Resisting the Neoliberal Project in India: Punjab and the Struggle against Corporate Encroachment into Agriculture,' at WAPE 15th Forum, Shanghai International Studies University, China (17-18 December 2021) (with C. Saratchand).

Dr. Renuka Singh Presented paper titled, 'Empowerment of Women through Political Participation and Representation in India: Farce or Reality?' in (Online) International Conference on Gender Studies, 'Gender and Power' organized by



London Centre for Interdisciplinary Research, London (26-27 February 2022).

Dr. Ruby Bhardwaj presented a paper titled, 'Therapeutic Eclectics: A Study of Contradictions and Co-optations of Naturopathy and Allopathy in India' on the panel Progress or Co-optation: Critical Reflections on Increasing Integration of Complementary and Alternative Medicine in Hospital or Biomedical Clinical Setting (Panel I of II) on November 19, 2021 in online International Conference on the theme Truth and Responsibility organized by the American Anthropological Association, Baltimore (17-21 November 2021).

Dr. SanjuktaNaskar presented a paper, 'Leṭō Folk Form in the Making of a Revolutionary: KaziNazrul Isla,' on September 6, 2021 at 18th ISFN Congress (online) Encountering Emotions in Folk Narrative and Folklife (5-8 September 2021).

Dr. Saumya Gupta, presented a paper titled, 'Building New Delhi: Imperial Vision and Colonial Contestations', at National Webinar on 'Archaeological and Historical Manifestations of Changing Cities of Delhi' Kalindi College, University of Delhi (19 February 2022).

Ms. Vandana Madan Presented a paper titled, 'What Role Can Educational Institutions Play?', at a National Webinar on 'Digital Divide in Education During Covid-19 and Strategies for Inclusion', organized by Women Power Connect and Friedrich Ebert Stiftung, New Delhi (4 May 2021).

National/International MoUs Signed

Mahatma Gandhi Govt. College (Punducherry University), Mayabunder, Andaman, Andaman & Nicobar Islands Vidya Vistar Scheme of Delhi University.

Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi to conduct a Faculty Development Program on- Hindi Sahitya: ShodhPravidhiyan and Chunautiyan Alfalah School of Medical Sciences and Research Centre, Faridabad to conduct first aid and safety measures training.

Janki Devi Vocational Centre to enhance capacity building and entrepreneurship skills of students.

Janki Devi Vocational Centre to conduct an add on course in French.

Aditi Mahavidyalaya, University of Delhi to conduct a certificate course on decoding disability in children.

WinVinaya Foundation to build capacity for deepening diversity and inclusion.

TNS India Foundation to conduct employability training, career counselling and job placements.

Institute of Advanced Sciences, Dartmouth, MA, USA to conduct add on course on Prosperity through Philosophy, Practice and Principles.

Teaching Learning Centre, Ramanujan College, University of Delhi to conduct a 7-day training session for teaching and non-teaching staff for enhancing administrative efficiency in HEIs.

Other Inter-Institutional Collaboration

Janki Devi Memorial College collaborated with Mahatma Gandhi Govt. College, Mayabunder, Andaman and Nicobar Islands under VidyaVistar Scheme.

Placement Details

73

Number of Companies visited for campus recruitment
12

Extension and Outreach Activities

The Center for Extension and Outreach Activities (CEO-A), under the aegis of JDMC-IQAC, in collaboration with Department of HDFE, organized the sessions for "Creating Awareness on Glaucoma" on the occasion of the World Glaucoma Awareness Week, "Sensitization on Retinoblastoma" on the occasion of World Cancer Day and International Childhood Cancer Day and "Disability Awareness Orientation" programme in collaboration with WinVinaya Foundation.

CEO-A and HDFE celebrated the "Joy of Giving Week" from 02 October 2021 to 08 October 2021. This year the Department of HDFE was able to reach out to children in various places (Noida, Bharatpur, Srinagar, Gurugram, Baraut, Rohtak, Purnea, Ambikapur,



Chhattisgarh) and make this a Pan India initiative. Activities of Joy of Giving included distributing stationery items, masks, soaps, lunch boxes and biscuits etc. Further, the HDFE in collaboration with CEO-A helped the organization, Family of Disabled by purchasing pencils made by them and then distributing them in various other NGOs that had the requirement for the same, during the Joy of Giving Week. In addition, the Department of HDFE in collaboration with GirlupArdhya organized awareness session and workshop titled “Let’s Talk about Periods”, “Menstruation and Mental Health” on 09 July and 23 August 2021 respectively.

The CEO-A and Women’s Development Center (WDC) in association with Sirona Hygiene Foundation organized a session on Sustainable Menstrual hygiene on 26 August 2021. The speaker of this session was Dr. Diksha S Chadha, MD Preventive Medicine.

The CEO-A organized online workshops on Demystifying Admission Process in DU on 4 and 5 August and 28 and 30 July 2021 to inform the students about the available courses in DU and to clear the queries of the students regarding admissions. The students from schools like DPS, Numaligarh (Assam); NutanVidyaMandir Sr. Sec School, Vasundhara (Ghaziabad); GSKV Avantika 1, RPVV Sector 11, Rohini; GGSSS Avantika Sector 1, Rohini, SKV, Pocket IV, MayurVihar, Phase 1; Ramjas Girls Sr. Sec. School, Daryaganj and Govt. Sarvodaya Co- ed. Vidyalaya, Sector 8, Rohini; DTEA Schools (7 branches); Bal Bharati Public School, Rohini attended the workshops.

The JDMC-IQAC CEO-A organized a fundraiser for the purchase of an Oxygen- Concentrator for a Delhi based NGO, Children of the World, working for children who are vulnerable, abandoned and destitute, on 23 July 2021. This fundraising outreach was crowd-sourced from the college community.

The National Cadet Corps (NCC) and CEO-A collaborated for the events like 30 Days, 30 Ways, Green Diwali, Clean India Campaign, SwacchtaPakhwada Drive, International Plastic Bag Free Day to awareness on a healthy, green and clean environment.

Further, the World Health Day was celebrated by NCC and CEO-A on 07 April 2021 and a JDMC NCC Covid Help Desk/task force was created; whereby as volunteers 63 cadets took on the challenge to provide services in the form of verification of hospital beds, oxygen cylinders, medicines, food etc. during the second wave of Covid-19 pandemic in April 2021.

The National Service Scheme (NSS), JDMC in collaboration with CEO-A, on the day of International Women’s Day, 08 March 2022 organized a “Cloth Donation Drive” for the people of the adopted slum, Anand Parbat, Shadipur. Further, the NSS, JDMC in association with Vrikshit Foundation organized Yamuna Cleanliness Drive on 10 April 2021 as a part of “AzadikaMahotsav”.

The NSS initiated the NEEV Project in collaboration with Kalaakar Trust. As a part of the project, it started an online education initiative from 25 October 2021 (ongoing). The aim of the project has been to provide free education to the children living in the adopted slum situated at Anand Parbat, Shadipur. Under the programme 73 volunteers conduct classes via whatsapp, Google Meet or zoom teaching subjects like Maths, Science, Social Studies, Spoken English, Hindi and also awareness on current topic. Also, as a part of the NEEV project, a “Books and Stationery Donation Drive” was organized on JDMC college campus for the needy children. In addition, a session on “Health and Hygiene” was organized for the children living in the slum near Shadipur.

Library Development

The library constantly endeavors to make its services available and updated, in sync with the instructional program of the college. JDMC Library is fully computerized using Web based Libsys Software (an integrated Library management system), where all the housekeeping jobs are performed through this software. The database of books and journals available is updated on a day-to-day basis and several terminals are provided for students and teachers to search online documents. Internet access is also provided to the users. The library now has 25 laptops with broadband internet facilities to enable access to resources. All this is provided in spacious and comfortable conditions with adequate lighting and air

conditioning. In order to provide equal access to our visually challenged users, the library has installed screen reading software, Scanner with editing S/w, braille books are issued to such students and talking books. List of E-resources was put up on the college website on a regular basis. During the pandemic, the college library extended all its services and resources virtually to its members and tried its best to provide uninterrupted information.

Faculty Strength

144

Financial Allocation and Utilization

Fund Allocated: Rs. 45,54,00,000/-

Fund Utilized: Rs. 43,52,00,000/-

JESUS AND MARY COLLEGE



Brief History

Jesus and Mary College, a constituent college of the University of Delhi, was established by the Congregation of Jesus and Mary in 1968. Initially, the College started offering English (Hons) and B.A.(Pass) Course with an enrolment of 116 students. Within five to six years, students could choose from many more options of Honours Courses, including Economics, Political Science, Hindi, Psychology and B. Com Pass Course. In the year 1977, the B. Com Honours Course was introduced. A centre for the Non-Collegiate Women's Education Board (NCWEB) was opened in the college in the year 1975 while an Indira Gandhi National Open University (IGNOU) Centre was started in 1988. In 1994, JMC pioneered in introducing the Bachelor of Elementary Education (B.El.Ed.), a four-year course. JMC became the first college in the University to start a Placement Cell in 1998. In 2016 JMC became one of the three colleges at Delhi University to introduce two professional degree programmes- B. Voc Healthcare Management and B. Voc Retail Management & IT, sponsored by UGC under PMKVYI. In 2017-18 JMC

celebrated its Golden jubilee, the inaugural function of the yearlong celebrations had the Hon'ble President of India, Shri Ram Nath Kovind as the Chief Guest.

Major Activities and Achievements

The College was awarded an "A+" grade in the second cycle of the NAAC in November 2021.

The College hosted an International Conference on Evolving Business Strategies in Transforming Global Environment in Association with IMS Ghaziabad Online via zoom on 20th and 21 January 2022.

Honours/Distinctions

Akansha Agarwal, Department: Economics, Honors: Research for Impact Fellowship for the certified track of the MITx Designing and Running Randomized Evaluations course, J-PAL South Asia.

Dr. Devika Mittal, Department: Sociology Distinction: Ph.D. Dissertation won the Specialist Accolade at the ninth edition (2021) of the ICAS Book Prize an initiative of the International Convention of Asian Scholars (ICAS). Link: <https://www.iias.asia/the>



newsletter/article/ibp-2021-english-language-edition-social-sciences.

Dr. Divya Agarwal, Department: B.A. Programme (Environmental Science), Honors: Climate Coordinator on successful implementation of COP+26 Climate Action Program by Indian Astrobiology Research Foundation (organised by IUCN), Distinction: Climate Coordinator.

Dr. Pavitra Bhardwaj, Department: Computer Science Honors: was selected as a nominee for 2021 United States State Department, USA, Study of the U.S. Institutes (SUSIs) on Youth, Workforce Development, and Closing the Skills Gap on 2021-07-01.

Students with Distinctions

Name of Students with Class

Additi Pandey, secured an overall CGPA of 9.595 B.Sc. (Hons.) Mathematics.

Purty Kapoor secured an overall CGPA of 9.554 B.Sc. (Hons.) Mathematics.

Harshita Tomar secured the First Position in Taekwondo in Inter-University competition.

Laxmi Kumari secured the First Position in Judo in Inter-University competition BA. Prog (Economics-entrepreneurship) B.A(Hons.) Hindi

Riya Khanna secured an overall CGPA of 9.270 BA (Hons.) Economics

Publications

Dr. Anshi Goel, Prof. Vanita Tripathi, & Dr. Megha Agarwal. (2021). Is Information Risk Priced in Indian Stock Market? Finance India, XXXV (4).

Ms. Aruna Bajantri. (2022). Teachers' Unions in Maharashtra, a study of structure, dynamics and leadership. Reflections on Educational Practices, Thematics Studies in the Teaching Profession, TLM, Curriculum and Assessment, 18-36.

D. Agarwal, A. K. Gupta, (2021). Utilizing corporate social responsibility as financial investment opportunity in conserving local environment: Towards sustainable Business. Edited Volume: Financial Intelligence in Human Resource Management, (ISBN: 9781003083870), 206-221.

D. Agarwal, D. Sharma. (2021). Food processing waste to biofuel: A sustainable approach.

Edited Volume: Sustainable Food Management, (ISBN: 9789811589669).

DR. NILIMA CHITGOPEKAR. (2021). Shakti: An Exploration of the Divine Feminine. Book published by DK Penguin Random House.

Kaushik, P., Jena, S.P.K. (2021). Evaluation of P.E.A.B.L.S. for enhancing behavioral and cognitive skills among students with learning difficulty. Education India: A Quarterly Refereed Journal of Dialogues on Education, 2(10), 126-138.

Megha Jacob Naveen Joseph Thomas. (2021). Dynamics of Finances of Private Higher Educational Institutions in India, National Institute of Educational Planning and Administration (NIEPA), (Occasional Paper 57).

Prof. Reena Marwah & Lailufar Yasmin. (2021). Japan's Quad: More than a Mechanism for Dialogue. Journal of Ocean Studies, 29(2), 141-153.

Shiva Kapoor and C. S. Lalitha. (2022).: Continuity and closedness of constraint and solution set mappings in unified parametric semi-infinite vector optimization. Journal of Mathematical Analysis and Applications, 506(2), MR4315560.

Sharma C., Sony, R., & Mathew, M. (2021). Integrated Healthcare Delivery and Telemedicine: Existing Legal Impediments in India. Legal Issues In the digital age, 2(3), 98- 125.

Journals

Dr. Sandra Joseph, Principal JMC. The JMC Review. Annual.

Research Projects

SIDBI, 2021, Research for Impact Fellowship for the certified track of the MITx Designing and Running Randomized Evaluations course, J-PAL South Asia, Title: An Assessment study on community guarantee/mutual credit guarantee scheme.



Seminars Organized

Dr. Arushi Sethi, Dr. Daksh Sethi, Dr. Sharan Sodhi, IVF specialist, Advanced laproscopic surgeon, Nutritionist, Awareness program on obesity and PCOD, Health Awareness, 29 March 2022.

Mr. Chandrashekhar, Author TEDx- How to launch your own business, Entrepreneurial, 21 October 2021.

Pravin Sawhney, Editor of FORCE, UN in the age of disruption, UN Day, 22 October 2021.

Dr. Shewli Kumar Social Work Educator and Associate Prof. at the School of Social Work, TISS Mumbai, Conflict Zones and the role of Women Human Rights Defenders in India, Guest Lecture, 27 August 2021.

Prof. Henry Giroux, MC Master University Chair for scholarship in the Public Interest & The Paulo Freire Distinguished Scholar in Critical Pedagogy, Politics, Critical Pedagogy, and Hope in the Present Times, Critical Pedagogy and Developing Social and Collective Resistance to Subvert the Forces of Capitalism and Preserving Democracy, 24 February 2022.

Conferences Organized

International Conference on Evolving Business Strategies in a Transforming Global Environment, 20 January 2022.

Seminar/Conference Presentations

International Conference on “Evolving Business Strategies in a Transforming Global Environment, Title of Paper / Poster: Discussant for Technical Session on Energy, Environment and Sustainable Development, Faculty Name: Dr. Mahima Varma, Date: 2022, January 20.

National Open Educational E Resources Two-week Refresher Course in Current Studies through online mode organised by HRDC-GNDU, Amritsar State/University 18 January 2022, January 18 Faculty Name: Dr. Pavitra Bhardwaj as a Resource Person.

12th International Convention of Asia Scholars-International Institute for Asian Studies, Leiden, Netherlands, Title of Paper / Poster: Adivasi- Bodo

Conflict in Assam: A Burden of History, Faculty Name: Ms Bipasha Rosy Lakra, Date: 2021, August 26.

26th European Conference on South Asian Studies. Vienna, Austria, Title of Paper / Poster: Peasant Populism and Right-Wing Politics: A Case Study from Gadwal, Telangana, South India, Faculty Name: Dr. Jessy Philip, Date: 2021, July 29.

7th International Hybrid Conference on Second Language Studies (ICSLS), Title of Paper / Poster: Examining Studies on Negative Feedback from a Sociocultural Framework: A Review, Faculty Name: Ms. Asha Sundaram, Date: 2021, June 05.

Memory in Transition: Intersections, Contestations, Futures organized by the Indian Institute of Science Education and Research, Bhopal, Title of Paper / Poster: ‘Rescuing Kumari Lajjawati from the Archive: The Turn to Memory in History- writing’, Faculty Name: DR. RICHA RAJ, Date: 2022, March 03.

National Skill Workshop, Title of Paper / Poster: Alignment of Secondary Education to Higher Education, Faculty Name: Sunita Narain, Date: 2022, January 18.

International Studies Conference, Nepal Institute for International Cooperation and Engagement (NIICE), Nepal, Title of Paper / Poster: China’s BRI diplomacy: A comparison of Sri Lanka and Thailand, Faculty Name: Prof. Reena Marwah, Date: 2021, August 29.

21st Science Council of Asia (SCA) Conference organized by Indian Council of Social Science Research (ICSSR), Title of Paper / Poster: Emerging Technology in Retail Management, Faculty Name: Ms Priya Dahiya, Date: 2022, March 17.

International Seminar on wetlands and mangroves, Title of Paper / Poster: Role of wetlands in economy, Faculty Name: Divya Agarwal, Date: 2022, March 24

National/International MoUs Signed

The College signed an MoU with the Institute for Indian and South-West Asian Studies, Vietnam Academy of Social Studies in December 2021.



Other Inter-Institutional Collaboration

The College signed an MoU with Skill Labs Financial Lab cum Incubation Centre on 30 March 2022. SkillLabs is a government-recognized start-up, approved by the Department of Promotion of Industry and Internal Trade (DPIIT).

The College also signed an MoU with CSSA NGO for setting up of Covid Care Centre in the College.

Placement Details

103

42%.

Number of Companies visited for campus recruitment

155

Extension and Outreach Activities

Humane Corps, the NCC-JMC Covid Care Initiative, 2021. During the peak of the pandemic in Delhi, April-June 2021, NCC cadets of Jesus and Mary College took to the online initiative of becoming intermediaries between the service providers and those in need of medical services. The cadets provided personally verified leads of the service providers whom they were able to contact on time, prominently providing leads for patients in Delhi and in some cases arranged information to patients in other states as well. Apart from this initiative, the cadets also collaborated with Icrewsystems Company for lead verification all over India.

NSS Unit of Jesus and Mary College in collaboration with other colleges under NSS, Delhi University joined the Anti-COVID Task Force. 40 NSS-JMC volunteers came forward to extend support, of which 14 were immediately involved in providing and collating information about the emergency and essential services required for dealing with COVID-19 including

Hospital beds, Oxygen supplies, and Ambulance and Consultancy services, Medicines as well as Food Resources.

JMCEP (JESUS AND MARY COLLEGE EDUCATIONAL PROGRAMME) collaborated with Childrenwise to uplift and empower those who are underprivileged and differently-abled by providing them with education. Additionally, project Aashray is JMCEP's homegrown initiative which was introduced during the pandemic year where volunteers took charge of teaching the children of their domestic help. JMCEP's second collaboration with SMCT (Siddharth Memorial Charitable Trust) is a mentorship program that is a year-long tie-up. It focuses on skill development and overall personality enhancement. JMCEP in collaboration with NGO Social Vision organized a donation drive that aimed at helping underprivileged families set up a new shelter for themselves after they suffered losses due to the pandemic.

Library Development

Library Development in 2021-22 involved with creation of more Space for readers with social distancing. The Library purchased 5 new Intel i5 Computers for users and staff. It added one more internet lease line connection for users for accessing E-resources without an interception. All OPAC systems were upgraded with Windows 11 OS with an i5 processor for a smooth user experience.

Faculty Strength

Permanent: 58

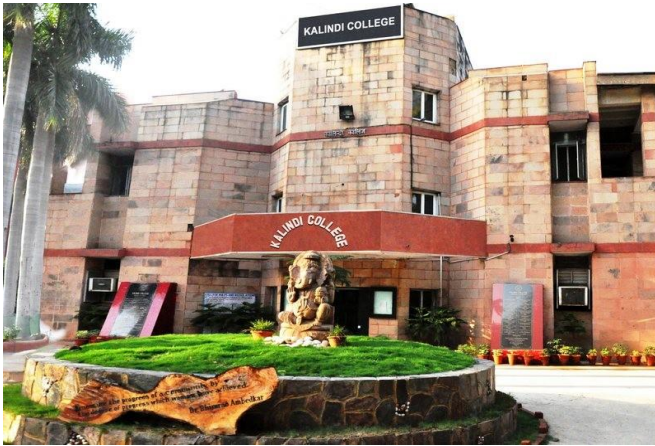
Adhoc: 69(including 6 against Leave Vacancy)

Financial Allocation and Utilization

Fund Allocated: Rs. 41,40,00,000/-

Fund Utilized: Rs. 42,56,13,000/-

KALINDI COLLEGE



Brief History

Kalindi College was established in 1967 with an objective to provide higher education to young women. Accredited 'A' grade by NAAC, Kalindi College has emerged as one of the leading premier institutions of higher education in the University of Delhi. In its 54 year journey the college has demonstrated its commitment in fostering an academically stimulating environment, thereby facilitating transformative educational experiences for its students. With the motto of 'Gyanam Shilam Dharmashchair Bhushanam' that emphasizes on three key virtues of human life- Knowledge, modesty and sense of duty – the college aims to empower its students through holistic education. Our Principal, Dr. Naina Hasija, has consistently worked towards facilitating a space for academic excellence by encouraging students to develop an outlook for academic critical enquiry, civic awareness and build a sound moral foundation.

Kalindi College aims at scaling greater heights and offers several intellectually stimulating and creatively gratifying opportunities to its students through various co-curricular activities such as cultural events, dramatic society events, academic workshops, talks, seminars and debates, where the rigours of academic and creative impulses coalesce. The enriching and transformative learning experiences enable students to express, explore and evolve themselves for an empowered, enlightened and inclusive development. A nourishing environment aided by a combination of

competent infrastructure and a dedicated teaching faculty assists our students in actualizing their potentialities and, in the process, achieve the highest accolades in academics, sports and other extra-curricular activities. Besides the various courses offered in Humanities, Commerce and Science disciplines, the college also offers coveted professional degree courses in Computer Science and Journalism, and add-on courses such as Foreign languages to meet the requirements of a fast-evolving global world. With a team of around 201 well qualified, distinguished dynamic teaching faculty members who have been actively engaged in academic pursuits in addition to institutional responsibilities and an 84- member efficient and cooperative administrative/technical/support staff, the college aims to provide quality education and holistic development to its over 3791 regular students and approximately 437 Non-collegiate students. The college takes pride in its excellent infrastructure and is persistently striving to expand it. Our vision is to make Kalindi College an institution of academic excellence, achieving its rightful place on the national and global educational map.

Honours/Distinctions

Prof. Pushpa Bindal Award- Honored with "Distinguished Teachers Award" by Lions Club Capital Greens in 2021.



Prof. Rachana Kumar Award- Honored with “Distinguished Teachers Award” by Lions Club Capital Greens in 2021

Dr. Reshu Chaudhary-Ph.D. Degree Awarded, dated- 24 January 2022.

Prof. Ruchi Tyagi - Appointed as University Representative of Jagadguru Ramanandacharya Rajasthan Sanskrit University, Jaipur, Rajasthan In the Management Committee of Tank Shiksha Niketan, T.T. College, Ajmer for a period of three years from 2020-21.

DR. SANGITA DHAL Ministry of Culture, Government of India, New Delhi, received Letter of Acknowledgement from The Ministry of Culture, Government of India for providing valuable inputs and information regarding historical places and unsung heroes of Delhi to commemorate Azadi Ka Amrit Mahotsav.

Conferences Organized

Revisiting Gandhian Perspectives on Development: Reflections on Culture, Society and Politics’, 03 September 2021, Indian Council for Cultural Relations.

Gender Sensitisation Amongst Youth, 29 November 2021, Kalindi College.

“Gender, culture and the everyday experience, 27 October 2021, Kalindi College.

“Rewiring your Genetics: From Genetics to Epigenetics”, 15 January 2022, Kalindi College.

Seminar/Conference Presentations

Anita Verma- Presented Paper in 3rd International Finance Conference IFC 2022 on “Technology as an Innovation Facilitator for Digital Payments in The Millennial Generation” held on 2022, March 29-30 at Centre for Management Studies (CMS), Jamia Millia Islamia.

Monica Zutshi- Presented paper entitled “Magic Realist Truths: An Attempt to Rescue Gabriel Garcia Marquez’s Chronicle of a Death Foretold from Eurocentric Readings” at the 7th JGU International Conference (Online) organised by the English Literary Society, O.P. Jindal Global University on 2021, July 23-25.

Prof. Pushpa Bindal- Triranjita Srivastava Pushpa Bindal, Ayasha Malik, Prachi Kadiyan, Srishti Choudhary,

Sweetey and Anshu (2021), "Numerical Computation Using SCILAB – GUI An Application Software", pp. 113, e-Proceedings of 15th International Conference of IMBIC on "Mathematical Sciences for Advancement of Science and Technology" (MSAST 2021), held on 2021, December 21-23.

Prof. Rachana Kumar- “Enhanced gas sensing performance on surface functionalization of single walled carbon nanotubes, In International Conference on “Continuity, Consistency and Innovation in Applied Sciences and Humanities” (ICCIASH 2021) organized by Department of Science and Humanities of St. Martin’s Engineering College, Dhulapally, Secunderabad, Telangana, India on 2021, July 29-30. Paper ID: 201.

Prof. Rachana Kumar- “Analytical modeling of Adsorption kinetics of pristine and SnO₂ functionalized Carbon nanotubes”, In International Conference on “Energy and Advanced Materials “(ICEAM-2021) organized by Department of Physics and Materials Science and Engineering, Jaypee Institute of Information Technology, Noida, UP from 2021, October 21-23. Paper ID: ABMRRAM26.

Prof. Rachana Kumar- “Rate kinetics and dynamic response of functionalized gas sensor for NO₂ adsorption”, In International Conference(online) on “Recent Advances in Functional materials RAFM-22”, organized by Department of Physics, ARSD College, University of Delhi, 2022, March 14-16. Paper ID- OT 82.

Dr. Rajni- Presented a research paper titled “Impact of Human Resource Practices on Knowledge Management: An Empirical Analysis” at 5th International Conference 2021 (Virtual) on the topic “Challenges, Opportunities in Technology and Innovative Management Practices-A Futuristic Approach till 2050” organized by Ideal Institute of Management and Technology, Delhi on, 2021, August 26-27.

Dr. Seema Gupta, - Presented paper in 2nd Online International Conference on “Continuity, Consistency and Innovation in Applied Sciences and Humanities” (ICCIASH 2021) organized by Department of Science and Humanities of St. Martin’s Engineering College,



Dhulapally, Secunderabad, Telangana, India on 2021, July 29-30.

Dr. Sudha Gulati- Presented a poster entitled as “Impact of top metal electrodes on current conduction in WO₃ thin films” in online international conference on “Energy & Advanced Materials (ICEAM- 2021)” Organised by Department of Physics and Materials Science and Engineering, Jaypee Institute of information Technology, Noida, Uttar Pradesh, India held from 2021, October 21-23.

Extension and Outreach Activities

Webinar on Time Management 22 February 2022 was organized by the Social Responsibility Cell of Kalindi College which was based on the topic “Time Management”. The speaker of the webinar was Mr. Amit Poddar, who is a graduate from Sri Venkateshwara College and pursued MBA from Indian Institute of Planning and Management. The honourable speaker spoke about time and money where he explained how time is like a bank. He also talked about stress management, Expectation Management, Goal Vs Dream, Realistic Goals and how we should Plan and Strategize our tasks and know our priorities. During the webinar, attendees shared their opinions and gave responses to the questions asked by the speaker as well as other students. The webinar had a discussion regarding David Allen’s interview of 2001 where he beautifully explained about time management. He stated that the term time management was a mislabeled problem and what we really manage is not the time but our activities during that time. Attendees during the webinar were made aware about the importance of a schedule and on how to set their priorities. The webinar concluded with the queries of students which were answered by the speaker.

SEBI-Financial Awareness Program (for teaching and non-teaching staff) 16 March 2022 was organized by the Social Responsibility Cell of Kalindi College which was based on “SEBI Financial Awareness Program”. The speaker of the event was Ms. Jyoti Kapoor, who is a CS Professional and a SEBI Smart Trainer. She has more than 10 years of experience with various leading media houses and publication like Network 18, India Express, Media Transasia at a senior role, in her last profile she was General Manager, Sales &Marketing at Network 18, Mumbai. The event was started with the lamp

lighting. The honorable speaker lectured about 'SEBI Financial Awareness,' explaining two phrases that most people are unfamiliar with: savings and investing. "Saving" was "introduced when we were in our mother's womb," she said. She explained that 'pay yourself first' because the future is unknown, and she used the example of Covid-19, which taught us to stay within bounds. She then went on to discuss SEBI's functions and relevance, as well as nine modules and the necessity of using a SEBI-registered broker. She said that there are different platforms for diversifying a portfolio, but there are four main assets to grow: Gold, FDs, LICs, and post offices. She also discussed mutual funds. They, like the Metro system, appear transparent. She also explained the concept of mutual funds. In addition, she explained mutual fund types, categories, procedures, and how to check risk with the Risk-O-Meter. She concluded with the quote 'Early You Start Better for Your Future'.

ENACTUS KALINDI has been active since 2017 and strives to erase social concerns and empower the downtrodden. Enactus Kalindi in association with the Social Responsibility Cell of Kalindi College launched its first initiative- Project Rehmat. Project Rehmat is an initiative to identify and rehabilitate manual scavengers, uplifting them towards an improved lifestyle and helping them break the discriminatory caste hierarchies. In 2019, Enactus Kalindi initiated Project Weran, with an aim to reduce the food wastage and uplift the marginalized women as well as farmers. In 2021, Enactus Kalindi came up with Project Rahee to fight with global warming with innovative products that aims to upcycle the toxic waste ending up in the landfills. Over the years, Enactus Kalindi has received both national and global recognition for its innovative and sustainable approach to solving major climate as well as social issues.

On 5 February 2022, Enactus Kalindi in association with Sachhi Saheli on Menstrual Awareness and Hygiene Day, took part in the Red Dot Campaign and urged people to practice proper disposal of their menstrual waste. On 6 February 2022, Enactus Kalindi introduced a new variant of Afza Jams, in strawberry flavor.

On 18 February 2022, Enactus Kalindi conducted a field visit to the community in Lado Sarai. The members of the team interacted with the women in the community and enquired about their experiences of the pandemic and how it affected their lives. On 8 March 2022,



International Women's Day, Enactus Kalindi conducted a social campaign to celebrate the efforts of women who are changing the world and breaking social biases. Enactus Kalindi participated in the Enactus World Cup's Race to Feed the Planet and Project Weran made it to the Top 12 Projects out of 80 teams participating globally in the Race. Enactus Kalindi participated in Daksha- Annual Case Study Competition conducted by IIT Delhi. On 16 April 2022, Enactus Kalindi participated in the B-Plan Competition conducted by Enactus SGGSCC. It also participated in ENNOVATE- a Marketing Competition conducted by Enactus CVS.

On the 5 May 2022, Enactus Kalindi participated in the Open Mic, Case Study and Treasure Hunt Competition conducted by Enactus ADGITM. On the 6 May 2022, the team participated in the B plan competition conducted by Enactus ADGITM. In May 2022, Enactus Kalindi added two new products- Amla Candies and Raw Mango Chutneys to its range of sustainable food items, Afza. Further more, on the 5 June 2022, students from Enactus Kalindi went to several shops in Karol Bagh to market Afza products and interacted with small businesses in the process. On 6 June 2022, students under Project Rahee made proto-types of Bio-Bricks, aiming to upcycle the waste from landfills. On 9 June 2022, Enactus Kalindi's Project Weran conducted a field trip to Lado Sarai to start the production of Afza products with the help of the target community. In the month of June, team rahee undertook an initiative to recycle old clothes by making scrunchies with the help of women of an underprivileged community who lost their livelihood in the pandemic. In the month of June, Team conducted an activity wherein planters were made using recyclable tyres in the college. On 5 July 2022, Project Weran received mentorship from Kyle Trudell, ADM on improving and scaling the project.

Connecting Dreams Foundation (CDF) provides the youth with an opportunity to bring about a sustainable and scalable change. CDF works along the lines of 17 Sustainable Development Goals (SDGs) as defined by the United Nations. CDF, through its changemaker network uses entrepreneurial action to empower people to improve their livelihoods in an economically, socially and environmentally sustainable way, thus, converting their dreams into reality. The Kalindi Chapter of CDF has been active since September 2017. Our major projects have so far been Unnati, Yukta, Masoom, Dream Library and Project Kilkari which has

been pioneered by our very own chapter and successfully has branched in multiple other chapters under CDF india. Currently, only Kilkari is active as the other projects are on hold until further instructions from CDF india. Project Kilkari' aims to bridge the gap between streets and schools by connecting underprivileged children. It also aims to decrease the alarming dropout rates by conducting Kilkari Pathshala sessions 4 days a week and targets SDG Goal 4: Quality Education as well as Goal 5: Gender Equality. This project was first started by Kalindi College and since then has been taken by different colleges. All the colleges contributed exceptionally well on their part.

Various colleges have taken up this initiative to make learning fun and informative for students.

Since the starting of the pandemic, we switched our pathsalas to online mode for the safety of both our students and volunteers. However, this session we have instead adapted into a hybrid method, letting the students decide for their convenience. Classes in physical mode as well as online classes were also provided. One to one classis was also provided for students with special needs. With these wonderful students we had the honor of celebrating a few events including; Painting competition on Republic Day; Essay writing competition on Rakhsha Bandhan.

On January '22 CDF Kalindi organized a webinar – Haq Se Period, in collaboration with Girl up kranti with the aim of educating about menstrual hygiene, myths regarding periods and PCOD/PCOS. The webinar was graced by Ms. Sanchi Gajghate, a renowned life skill educator and social activist who has been the recipient of multiple awards including the Gungaurav Puraskar (2013), the Prernaratna Puraskar (2014), the Youth Inspirators Award (2018). At the end of the seminar, all the active participants were given certificates alike. On January 15th, an orientation was organized, to educate freshers regarding our foundation, the fundamental truths we follow, the projects we have created to help the community around.

Library Development

The library resources have been enhanced during the year 2021-22 and the total collection of the library reached up to 86,427 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 51

magazines/journals and 13 newspapers in English and Hindi languages on different areas of interest for its readers.

The library has a web center for access of 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, Delnet and DULS (for faculty members and Post Graduate students) ID is also provided by the library. A large number of Open Access Print Journals, E Books and E Journals, previous year question papers and link for useful educational resources are available on college website. Journal Content Alert Service is also provided to faculty members through email and is uploaded on college website also. Two Information

Kiosk has been added to the library. The library is also promoting Green initiative and thus procuring recycled material in lieu of library waste paper. Facility of E Books for print disabled student is provided through DU Braille library and Sugamaya Pustakalaya and screen reading software i.e. NVDA and Hindi OCR are available in library.

Faculty Strength

190

Financial Allocation and Utilization

(a.) Rs. 46,25,89,803/-

(b.) Rs. 46,25,89,803/-

KAMALA NEHRU COLLEGE



Brief history

Kamala Nehru College was established on 20 July, 1964. At that time, it was known as 'Government College for Women' and was located in Defence Colony. The College initially offered courses only in humanities but later the commerce stream was added. The college began the early years of its journey under the guidance of the founder Principal Dr. K.K. Gorowara. When the college was started, it only had sixteen staff members and 209 students passed out in the first batch in 1968. The College Magazine 'Swati' was launched in the academic year 1965-66. In 1966-67, the College was renamed as 'Modern College for Women' and in 1967-68 the College Magazine acquired a new name 'Apoorva'. On 21 November 1972, the foundation stone for a new building was laid at Hauz Khas (at present

August Kranti Marg) by then President Shri V.V. Giri. The college was given a new name and it became Kamala Nehru College. In 1974, on the occasion of Founder's Day, Mrs. Indira Gandhi visited the new building, unveiled the plaque and planted saplings.

The college has a beautiful auditorium which was built through sincere contribution made by the staff and students through fund raising campaigns. It was inaugurated on 17 December, 1991 by the then Vice-President Shankar Dayal Sharma. Today, the college has well maintained computer laboratories, sports ground, gymnasium and eco-friendly classrooms (bamboo rooms apart from the main building). The library is well stacked and has a separate audio-visual section. The

college is differently-abled friendly and is under constant CCTV surveillance. The Placement Cell, NSS, NSO, NCC and Counselling Cell function for the overall wellbeing of the students. Kamala Nehru College has several extra-curricular societies that cover the whole gamut of personality development aspects by providing plural avenues to students for self-discovery. All departments and the societies have their annual newsletters/magazines and the college comes up with its journal 'Akademos' (An Annual Miscellany of Liberal Arts and Scholarship, ISSN 2231-0584) each year.

Major Activities and Achievements

In our efforts towards making the college campus a barrier-free and accessible space, Kamala Nehru College with Assistech Lab (IIT-Delhi) has accomplished the initiative of internal navigation within college campus. Kamala Nehru College will be the first academic/educational institution in India to have an inclusive and accessible indoor navigation system in the direction of promoting digital accessibility for the visually challenged stakeholders with such a technology solution of global standards. It is a matter of pride to announce that 2021 has been a landmark year in which a total of 160 much awaited promotions were awarded to the teaching faculty across Academic Levels 11,12,13A and 14, including. Further, under the NIRF – National Institutional Ranking Framework, the college has climbed many notches up with an All India College Level Ranking of 33 in the year 2021 as compared to 43 in 2020. Under the UGC 'Paramarsh' NAAC Mentorship scheme, Kamala Nehru College as the Mentor institution is committed to its four Mentees for their NAAC accreditation by 2022. Under the OBC infrastructural expansion, the auspicious event of the Foundation Stone laying of the New Academic Block was held on 31 January 2022, with Prof. Yogesh Singh Hon'ble Vice Chancellor, University of Delhi as the Chief Guest. Two UGC approved Certificate Courses under National Skills Qualifications Framework (NSQF) namely, Certificate Course for Geographic Information System Mapping and Data Analysis, and Certificate Course in Tourism and Travel Automation have been completed successfully in 2021 with an encouraging result.

Honours/Distinctions

Dr. Carmel Christy was awarded the International Fellowship of the Urban Studies Foundation, Glasgow from March 2021- September 2021. As part of this, Dr. Christy worked on her second monograph at the International Institute for Asian Studies in Leiden, The Netherlands. Further, she was also awarded a Knowledge Mobilisation to study urban spaces by the Urban Studies Foundation, Glasgow. Dr. Sarita Sharma Associate Prof. in the Department of Sanskrit Kamala Nehru College has been awarded Innovative Prof. Award for Promotion of Sanskrit on the eve of International Women's Day 2021. Mr. Ramesh Aroli was awarded the Ph.D. degree for his research titled "Language of Politics and Identity in Popular Press: A Study of Kannada Tabloid Lankesh Patrike" from the Centre for Media Studies, Jawaharlal Nehru University, New Delhi. Ms. Anubha Yadav's books, titled, The Anger of Sainly Men (Fiction) and Scripting Bollywood were published by Patra Bharati and Women Unlimited (Kali for Women) respectively in 2021. Dr. Minakshi Sethy's book titled Bhakti: The Philosophy of Sri Chaitanya (1st Edition) was published by Atlantic Publishers and Distributors (P) LTD. in June 2021.

Students with Distinctions

Sejal Negi of B.A. Hons. Geography	BA	Hons
secured two gold medals in 800mts	Geography	
Girls-20 at 80th Delhi State Annual Athletics Championship held in January 2021 and 32nd North Zone Junior Athletics Championship 2020-21 held in March 2021.		
Nikita Choudhary of B.A. Programme	BA	
won a bronze medal in Janauray 2021 in the 80th Delhi State Annual Athletics Championship in 800M and 1500 M	Programme	
Kirti Gupta, of B.A. Programme	BA	
participated in World Cup Shotgun Championship held at Cairo Egypt in March 2021 and secured Trap Team Women silver medal	Programme	
Mehakpreet Kaur of B.A. Programme	Ba	
was judged as the All-Round Best at 60th Delhi State Gymnastic Championship held in November 2021, and also secured Gold Medal in Hoop, Ball and Clubs. She also won	Programme	



Silver Medal in Ribbon

Harpreet Kaur of B.Com. Hons. Ba
Secured a silver medal in Clubs at the Programme
60th Delhi State Gymnastic
Championship held in November
2021

Publications

Anubha Yadav. (2021). Para & Protima. Studies in South Asian Film & Media 2021, (2021).

Dr. Archana Prasad. (2021). Cities as Exclusionary Zones: Labour Migration and Creation of Precarious, Unidentifiable and Isolated community of Workers in Gurgaon. Social Action (2021).

P. Basu and Rupa Basu. (2021). Effectiveness of Online Teaching Offered by the Faculties of the Royal University of Bhutan - A Study from the Faculty Perspective. The Management Accountant, (2021).

Pratibha Tomar and Dr. Kalpana Bhakuni. (2021). ASHA WORKER'S AWARENESS AND RESPONSIBILITIES IN REPRODUCTIVE HEALTH SERVICES IN RURAL UTTAR PRADESH. The Deccan Geographer, (2021).

Dr. Sarita Sharma. (2021). Rivers in Valmiki Ramayana and Exploring Ecotourism Circuits in ancient India. Vyasasri, (2021).

Swapnil Verma. (2021). Fixed point via implicit contraction mapping on quasi-partial b- metric space. The Journal of Analysis, (2021).

Journals

Dr. Pravati Dalua. (2021). Akademos. Annual, 16(16), 319

Research Projects

UGC, 2019-21, PARAMARSH, IQAC, Rs. 27.78 Lakhs.

ICSSR, 2021, The meaning of Mahabharata in the Himalayas: Philosophical, Religious, Environmental and Cultural Materiality, Rs. 5 Lakhs.

The Urban Studies Foundation, Scotland, 2021, Protests and Urban Spaces, Rs. 4.19 Lakhs.

The Urban Studies Foundation, Scotland, 2021, Fading fore shore of Kochi - Fellowship, Rs. 12.15 Lakhs.

SPARC, Govt. of India, 2019-21, Major project - Yoga Consciousness in Mahabharata and Bhagvadgita: The Ethical value for Societal/ Political Well-Being, Rs. 73,23,215/-

Seminars Organized

Dr. Ishita Tiwary, Mel Hoppenheim School of Cinema, Concordia University, "Media, Technology and History", Media and History, 27 January 2021.

Prof. Nagaraj Rayaprolu, visiting Prof. at Trivandrum's Centre for Development Studies., "Post Covid Economic Growth Challenges", Impact of Covid, 25 February 2021.

Dr. V. S. Priya, Doctor from Kerala, "Declassifying My Life: Journey from Jinu to Priya.", KK Gorowara Lecture, 15 April 2021.

Dr. Ruchika Ramakrishnan, DU, "OBE: Simplification and Solution", OBE, 07 July 2021.

Prof. Sunder Sarukkai, Prof., Dr. Sarvepalli Radhakrishnan Memorial Lecture', Dr. Sarvapalli Radhakrishnan, 06 September 2021.

Conferences Organized

Enhancing Research Skills, 4-5 August 2021, 04 August 2021.

Intellectual Property Awareness Week, 16 December 2021, KNC.

National Conference - Investing in Our Water Future: Opportunities and Challenges 9-10 March 2021, 09 March 2021, Ministry of Jal shakti, KNC.
NEP 2020, 10-12 December 2021, 10 December 2021, KNC.

"SKILL ENHANCEMENT AND CAPACITY BUILDING FOR NON-TEACHING AND TEACHING STAFF" 22-28 January 2021, 22 January 2021, KNC.

Seminar/Conference Presentations

Anish Chakravarty research paper titled —Sexism in Language: A Phenomenological Perspective online at



the International Conference Power, (In) Equality and Cultures of Resistance: An Interdisciplinary Approach to Humanities and Social Sciences, organised by the School of Humanities and Social Sciences, Sharda University, Greater Noida, India on 2021, January 28-29.

Dr. Archana Ojha Invited as Distinguished Speaker in the Conference on Political Processes, Elections and Society in the America's at 2nd Young Scholars Conference(online) organized by Centre for Canada, America and Latin American Studies, School of International Studies, JNU. Gave lecture on Understanding the Relevance of Academic Research on Canada, U.S. and Latin America. 2021, October 04.

Dr. Jyoti Raghavan Dr. Jyoti Raghavan presented a paper at the Multidisciplinary National Conference on Investing in our Water Future: Opportunities and Challenges, held on 2021, March 09-10 organized by Kamala Nehru College, IQAC in collaboration 175 with National Water Mission, Ministry of Jal Shakti, Govt. of India.

Dr. Maitreeyi Kumari presented on Vedic Sahitya mein dhatuvijnan' in 3-Days National Seminar (2021, October 23-25) organized by Sanskrit Department, D.U. & Maharshi Sandipani Rashtriya Vedvidya Pratisthan, Ujjain.

Prof. Rajat Rani Arya, भखुं मव4ा- 25 ससत फय 2021, एक हदवसीम अ ययाटरीम फे ववनाय, फोगधस फाफा साहेफ टुड, े ाया आमोजजत, ववषम- 356/340/835 याजगाडने कॅरोनी, आरभ नगय, रखनऊ, ववषम- डॉ. बीभयाव अ फे डकय औय ननू ा नै4

Dr. Ritambhara Malviya Presented paper at the ISA 62nd Annual Convention. The Convention took place virtually from 2021, April 06-09 Author on Paper: Resistance to the Idea of the Empire: Rabindranath Tagore and the International Public Sphere.

Sanam Khanna presented at the IACLALS Annual Conference 2021, which was held online this year due to COVID 19 restrictions. The theme of the conference was Utopias and Dystopias in Our Times, and it was held

from 2021, March 17-20. During the conference, on 18 March, in session 5, as part of the panel on Dystopias of Children and Young Adults, she presented a paper titled Slave Minds, the Kathputli Coalition, and Agrarian Revolt: The Everyday of Dystopian Delhi in Almaru.

Dr. Seema Maheshwari Delivered a Lecture on Economic Dimensions of Media in the Context of Employability, organised by DDU Kaushal Kendra, University of Kashmir, on 2021, March 25.

Dr. Sarita Sharma delivered another invited lecture on Bhartiya Sanskriti Mein Yoga ka Mahattva organised by Government College for Women, Parade, Jammu on 2021, June 19.

Dr. Shubhra Sinha delivered a lecture entitled 'The Socio-Cultural World of Business Communities in Medieval India: A case study of Bihar' on 15 November 2021 in the Refresher Course on 'Revisiting the Indian Culture in History' (10-24 November 2021) organised by the UGC- Human Resource Development Centre, Dr. Harisingh Gour Vishwavidyalaya, SAGAR (MP).

National/International MoUs Signed

The Equal Opportunity Cell signed an MOU with Saksham Trust under which our volunteers assisted the organization in creating accessible reading material for print disabled. 28 volunteers participated in the project and each student edited 1200 pages.

Our college has signed a MOU of collaboration with Jawaharlal Nehru Mahavidyalaya Port Blair, Pondicherry University and Delhi University for sharing of teaching learning resources. Under the scheme two activities, one with the Commerce department and another with the Hindi department have already been conducted.

MOU was signed with Assistech Lab (IIT-Delhi) for internal navigation (within college campus) for visually challenged Divyangjan. All formalities from college have been completed and the project has started.

Other Inter-Institutional Collaboration



Workshop- Gain from Rain with INTACH and Tarun Bharat Sangh. Designing and Implementation of Indoor Navigation Assistance Solution to be implemented at Kamala Nehru College Campus with Assitech Lab, IIT Delhi

Student under Exchange Program (Inbound/Outbound)

Student faculty Exchange programme with Gargi College Workshops and Activities Under Vidya Vistaar Scheme with Jawaharlal Nehru Rajkeeya Mahavidyalaya, Port Blair.

Placement Details

Though the pandemic has continued to press the academic activities from physical to virtual space, Prospicio, the Placement Cell of Kamala Nehru College, has remained engaged in its regular functions and activities. The enhanced endeavours towards linking students at Kamala Nehru college with prospective career opportunities is exhibited through increased participation of the students in a variety of opportunities. With excellent career guidance sessions, internships, and placement drives, we were successful in providing a platform to the students to opt for the most suitable opportunity as per their aspirations and skills. This is evident from the Cell's upward trend in bringing better placements for students and setting new heights. An increase in the number of recruiters by 74% from 2019-20 to 2020-21 is evidence of the fact that the industry believes in the capability and excellence of the students of our institution. The session of 2020-21 brought 60+ recruiters from many renowned companies like ICICI Bank, Nestle, Willis Towers Watson, Byju's, KPMG, Wipro, Ernst & Young, etc. offering 20+ profiles with the average package of 4.2 LPA while the highest recruitment package awarded was by PrepOnline at 10 LPA. Moreover, the Cell also facilitates in increasing students' exposure to the professional workplace through various internship opportunities. The academic year 2020-21 received 80+ paid and unpaid internship opportunities in diverse sectors. The highest stipend offered was by WhiteHat Jr. at Rs. 12,000 and the average stipend was Rs. 7000. The cell offered 25+ profiles in companies, to name a few - Paytm, 1MG, Economics Times, Vista Rooms, POPxo, Decathlon, Hindustan Times, Lenskart among other prestigious companies. Besides this, the

Placement Cell organised the second edition of the annual internship fair - Phoenix 21 which was conducted virtually, with participation from over 35 companies. Over 400 prolific students across Delhi University successfully received an offer of internship through the fair. Furthermore, the Placement Cell actively worked towards upskilling its students by organizing 'Career Guidance' sessions. In August 2020, the Cell had the privilege to host Mr. Matteo Beccaria, International Recruitment Officer at University of Bristol in collaboration with SI-UK who shared his insights on the theme "How to Write an Impactful Statement of Purpose." In addition to this, the Cell also conducted sessions on topics such as 'Career Guidance Series' by Boston Consulting Group, "New Age Job Seekers & Self Branding" conducted by Ms. Akanksha Aggarwal, a KNC alumnus currently working at Google, CV and Resume Building session by Ms. Meghna Menon (HR Manager, Nestle), Corporate Training and Interview Skills by Ms. Isha Nagaich (Brand Manager, Jumbotail), Group Discussion and Personal Interviews conducted by Mr. Sunil Dua and finally, a seminar on Government and Banking Exams was conducted by Mr. Sukrut Bhusan. The Cell recognises that placements, internship opportunities and training programs are vital for college students to gain valuable skills, hands-on experience and knowledge. Indeed, the ethos of Prospicio - The Placement Cell has been to work towards providing the accomplished young women of Kamala Nehru College with ample opportunities to grow and establish a fruitful career for themselves. Number of Companies visited for campus recruitment 60 +.

Extension and Outreach Activities

NSS KNC resumed its session on 9 January 2021 with the #SayNotoSharpManja Campaign. The activity required volunteers to make a kite from organic thread and cotton yarn and a slogan on it to spread awareness on the harmful impact of using "manja" for flying kites. These kites were showcased on 14 January on the occasion of Makar Sankranti. NSS KNC volunteers took part in Toycathon'21 organised by the Ministry of Education, GOI from 18 January to 21 January. The volunteers participated in a number of teams and were required to design a blueprint for a toy that would promote the culture and heritage of India.



The #SayNotoSharpManja Campaign resumed on 26 January 2021 (Republic Day) and volunteers took to Instagram, Snapchat and WhatsApp to spread awareness on the dangerous impact manja can have on birds and other animals and prompted the use of cotton yarn by posting pictures of their kites on social media. NSS KNC volunteers along with Sacchi Saheli NGO took part in the Red Spot Campaign on 28 January 2021 to promote conversations around menstruation and encourage people to take part in conversations around female reproductive health to break the stigma and taboo around menstruation and periods in India. On 31 January 2021, a winter donation drive was organised by NSS KNC. The volunteers were asked to make donations containing essential items such as ration, masks and sanitisers along with warm clothing, blankets and covers to their neighbourhood or to an NGO.

NSS KNC organised a 4-day event from 11 to 14 February on the occasion of National Women's Day 2021. The event consisted of the following activities and the theme for them was "Being a Woman in India" -Poem Writing Event Posters/Art Making Event. A video of all NSS KNC volunteers talking about their experience as a woman in India. A Webinar on "Female Reproductive and Sexual Health" with Prathisandhi Foundation on 14 February 2021. This webinar spoke about about we need to know about female reproductive health, consensual sex and the methods of contraception available to women in India.

NSS KNC on the occasion of Road Safety Month organised a poster making competition on 20 February 2021. The theme for the same was - "Sadak Suraksha-Jeevan Raksha" The winners were Pratibha Priya, B.A (Hons) Sociology, 1st Year, Tania Chaudhary, B.A (Hons) Sociology, 2nd Year and Vanshika Jolly, B.A (Hons) Psychology, 1st Year.

NSS KNC volunteers attended a webinar on 24 February 2021 about water conservation in Delhi University. The webinar's central theme was the hashtag #catchtherain which brought focus to the importance of rain water harvesting all over delhi university. The panelists spoke of topics like water pollution, conservation and climate change which all connected to the need of the hour which is an active plan to conserve the planet and to get the youth involved. On 26 February 2021, Akshita Gupta, from BCom Hons 3rd Year, a volunteer of NSS KNC organised a workshop called "Awareness,

Acceptance and Adjustment – Growth for a better you." The hour-long session came as a much-needed break from the constant loop of toxic positivity and endless stream of work that we are tied up in these days. She addressed very relevant and relatable topics like how do we love ourselves, forgive and accept ourselves, know what we truly want and how do we move on from something that has really hurt or upset us.

For the occasion of International Women's Day 2021, NSS KNC organised a series of events from 4 to 9 March 2021. These included Paragraph writing event on the theme "Women in COVID", Thank you Notes to women who have inspired us and made us stronger, #ChoosetoChallenge pictures on Instagram, Snapchat and WhatsApp and Kahoot Quiz on Women's Trivia in honour of International Women's Day and Women's History Month.

For the month of May, NSS KNC volunteers worked towards COVID-19 relief and verified leads and resources for medical emergencies faced by citizens all over India due to the second wave. These updates were made on Instagram. 19 May to 27 May, NSS KNC volunteers took part in Week 10 and 11 of Yoga4Unity's one month of yoga celebration in the days leading up to International Yoga Day on 21 June. The volunteers attended webinars on the benefits of yoga in daily life and also took part in morning sessions where they would practice yoga with qualified yoga gurus.

On 15 June, Kamala Nehru College hosted a workshop on Gain from Rain on 14 of June, 2021 over Zoom which was attended by NSS KNC Volunteers. The session was addressed by Shri Rajendra Singh and Shri Manu Bhatnagar. Mr. Singh is the Chairman of the Tarun Bharat Sangh and has won numerous accolades for his continued efforts for water sustainability. Mr. Bhatnagar is the principal director of INATCH. Throughout the session, the speakers shared their knowledge and expertise on different ways of rainwater conservation, why it is necessary to conserve water for the prosperity of our planet, our environment and ourselves. The session also spoke about the neglect from the government and corporates to work towards protecting the environment and the vast dissatisfaction expressed by environmentalists.

On 21 June for the occasion of International Yoga Day, NSS KNC volunteers attended a workshop conducted by Priyamvada Tripathi, a certified Hatha yoga teacher and healer. She taught many aasanas which help in finding

balance between mind and body. The overall workshop was focused upon reliving mental and physical stress from the body. Ms Tripathi also encouraged volunteers to make simple goals everyday like not eating junk today, drinking more water, doing yoga for 15 minutes again in evening so that they can make a habit of living a healthier life.

On 29 August 2021, NSS KNC organized a short essay writing competition on the theme “My Favorite Sportsperson” on the occasion of NATIONAL SPORTS DAY. All volunteers were asked to send a short essay based on the theme describing how a particular sportsperson has been an encouragement and inspiration in their lives with a word limit of 100-150 words. Out of all 19 volunteers who participated, 3 best writings were selected and posted on our official Instagram page.

To commemorate Teacher's Day, NSS KNC organized a thanking note event on 5 September, 2021. All volunteers were asked to send a note of thanks to their favourite teacher from school or college and send a screenshot of it. We received a number (21) of lovely thanking notes from the volunteers which were really heart-warming and full of gratitude. NSS KNC organized a fun live quiz for its volunteers, stepping on the theme of Mental Health. The quiz was conducted on the platform Kahoot. A total of 17 volunteers joined out of which three winners were announced according to their performance. NSS KNC organized a collage making competition on the topic “My Ideal World” on 22 September.

As a part of NSS DAY, KNC NSS organized a mono-acting/monologue scriptwriting competition for its volunteers on 22 September 2021. The mono acting\ scripts would revolve around either an act between oneself and one's ideal self or an act displaying the conflict between one's shoulder angels (negative vs positive side or demon vs angel side). All volunteers were required to send the mono acting videos with minimum lengths of 3 mins and a maximum of 10 minutes. As for the monologue script the word limit was made 100-200. A total of 11 entries from volunteers were recorded, from amongst which 3 winners were selected and posted on our official Instagram page.

As a part of NSS DAY, KNC NSS organized a plantation drive for all NSS volunteers. All volunteers were required to plant a sapling and send videos of doing the

same. This event was organized to instil a sense of love and affection toward the conservation of today's endangered environment. A total of 13 video clips were received from the volunteers. On NSS DAY, 24 September 2021, KNC NSS organized a webinar in collaboration with Breakthrough India on a Stand-up Session. The session was made open to all volunteers and also other KNC students. The special guest\speaker invited was Bisma Javed, a Gender- Sensitive Trainer who is active in spreading awareness on gender equality, gender sensitivity and women's rights. She is also an award recipient of the “Rising Woman Award 2021”. It was a very interactive session that highlighted the issues of women rights and circled the 5 strategies on what to do if one experiences or witness's street harassment. The speaker laid stress on how helpful it would be for someone if we reached out a hand in need and led the audience through various ways on how to intervene in street harassment in a very calm manner. A total of 22 people participated in this webinar and made it a great success.

On the occasion of Gandhi Jayanti on 2 October, NSS KNC organized a debate competition where all volunteers were asked to send a write-up on either for or against the motion. The topics for the debate were; “Should truth be spoken in all situations?” “In this world of war and terrorism, can we practice Ahimsa?” “Love is the only way to rescue humanity”. Best 3 writings were posted on our official Instagram page: 1. Rupal Gaur 2. Karishma Surana 3. Bhargavi Singh. On the occasion of Lal Bahadur Shastri's birthday on 2nd October, NSS KNC organized an event directed to bring out creativity among everyone. All volunteers were asked to collect at least 5 facts of Lal Bahadur Shastri and depict those creativities in the form of a collage, reel or poster. The event took place on the theme, Let Your Creativity Pour.

On the occasion of Swachhta Diwas on 5 October, NSS KNC organized a cleaning drive where all volunteers were asked to send a short video of cleaning their surroundings. The event was organized on the theme, Let's make the world a better place to live in. the event was organized to promote cleanliness and instill the idea that maintaining a clean environment is very important for the better health of all humans, where we received a number of beautiful responses.

On the occasion of Indian air Force Day on 8 October, NSS KNC organized events where Volunteers were



required to send a list of achievements of the IAF. Volunteers were asked to send a picture of them saluting. The event was organized to instill a sense of bravery and reminisce the glorious day when the first operational squadron came into being. On the occasion of World mental health day on 10 October, NSS KNC organized a slogan writing competition keeping in mind the mental stress all students face during the time of admission. All volunteers were asked to send a slogan on the theme, Admission Anxiety.

On the occasion of the International Day of Girl Child, NSS KNC organized an event where all volunteers were asked to write a paragraph of about 120-200 words on the methods and ideas, they would implement to decrease the gender digital divide prevailing in the world. On the occasion of Global Handwashing Day on 15 October, NSS KNC organized a small event where all volunteers were asked to send a picture of them washing their hands along with a caption of 50-70 words, highlighting the importance of washing hands in current times.

Permission obtained from the Head of the Institution for organizing a series of events for Diwali on the theme "R Diwali" by NSS Kamala Nehru College. The event took place for four days; 1 – 4 November with one task per day, with Day 1 had tasks related to Reduce and Recycle; Day 2 had tasks related to Refusal to use of crackers; Day 3 for Reusing Competition and Day 4 for Refuel.

On the occasion of "World Kindness Day" an event was organized by NSS, KNC to commemorate the day, where the volunteers were asked to feed the stray animals. On the occasion of 'International Day for Elimination of Violence against Women' NSS KNC held an event to commemorate the day. All volunteers were required to make a palm painting on the theme ' Elimination of Violence against Women'. The paintings submitted were posted on all social media handles with Women empowerment hashtags On the occasion of 'WORLD TOILET DAY' on 19 November 2021, NSS KNC put forth an event wherein all volunteers were asked to write a paragraph on their view on 'how to spread knowledge about basic sanitation to layman' in about 200-250 words.

With the beginning of the new session 2021-22, new opportunities open up in the NSS forum of our college for the newly admitted and second-year students. The NSS team organised a three-layered selection process

for the recruitment of volunteers. The first phase included a google form encompassing questions to check the basic understanding, getting an introduction and contributions by the applicants in the social sector at their level. The second phase included an orientation programme for the candidates selected in the first phase. The third phase also included a google form that was based on the orientation to check the candidate's alertness and focusing capabilities. After a week-long process of selecting, our team was welcomed with 75 new volunteers.

On the occasion of the National Youth Festival, NSS volunteers were asked to submit an essay on either 'India of My Dream-Vision @2047' or 'Unsung Local Heroes of Freedom Movement'. The language was flexible; volunteers were to write in English or Hindi. The maximum word limit for the essay was 300 words only. Such a task helped volunteers to gain up knowledge regarding local heroes and express their visions for a better India. We had received beautiful responses.

On the occasion of 'Local and Vocal' and 'Azadi ka Amrit Mahotsav', volunteers were asked to look for local handicrafts striving in the market since older times to uplift their art in today's machinery-dominated era. Further, they were asked to trace back the importance or role/use of the handicrafts dating back to the independence period. This task enabled them to look for different handicrafts in their neighbouring markets, in addition, coming across people and owners struggling from earlier times. We received a vibrant range of responses.

In an initiative of NSS KNC to produce a documentary and research paper on the theme "Searching for Street Talent on The Street" volunteers were asked to look for street performers within their locality asking a few questions and creating a video clip out of it to be incorporated in the documentary and research paper which is set to be produced and published at the earliest.

Library Development

The college Library is fully automated through (NETTLIB 3.0.3 Library Software) which is connected with one server and eleven clients of Local Area Network. This software is assisting to Library for their housekeeping operations such as acquisition cataloguing, circulation, OPAC, serial control, stock verification, etc. For

purchasing of books, Library received the recommendation form from the faculty and students, and checks their duplicate titles before order. The library has more than One Lakh collection 421 CDs and 771 DVDs. In addition, 75 Journals /Periodicals (60 in English and 15 in Hindi) and 11 Daily Newspapers (7 in English /4 in Hindi) are being subscribed.

On summer vacation Library check their stock taking and complete the weeding out process.

Library has done complete stock verification of books after four years. The library has a systematically arranged stack hall at the ground floor. On the first floor the Reference section. Sociology section, Physical Education section, Hindi novels, old bound periodicals, collection of eminent writer Dr. Anita Desai, Sanskrit and Punjabi literature, etc. are located on the second floor. The library has a systematically arranged stack hall at the ground floor. In Library the first floor has a separate research section for faculty members (fully air conditioned) which is equipped with 16 laptops, 2

desktops with one printer. On Second Floor the Eight computers are equipped with Internet facility so that the teachers and students may have access to electronic archives from the college premises which is provided by the University of Delhi, like Jstor, Project Muse etc. Library has the institutional membership with DELNET (Developing Library Network) from 2014, INFLIBNET and Urkund Plagiarism Software.

Library has enabling unit in which we have 78 braille books, one document scanner, two computers equipped with NVDA (Non-Visual Desktop Access), one lax machine a camera-based scanner and two angels. Library organised orientation and awareness program every year. The library has capacity of 300 seats for readers and has separate section for Audio Visual Collection.

Faculty Strength

156

KESHAV MAHAVIDYALAYA



Brief history

Keshav Mahavidyalaya is one of the youngest constituent colleges of the University of Delhi, established in 1994 by the Govt. of NCT of Delhi. The college has been awarded 15th Rank by MHRD's National Institutional Ranking Framework (NIRF) in 2017. The college has also been accredited Grade 'A' by NAAC i.e. National Assessment & Accreditation Council in 2016. It is fully funded by Govt. of NCT of Delhi. Despite being one of the youngest colleges of University of Delhi, Keshav Mahavidyalaya is considered one of the best off-campus co-ed colleges having carved a niche for itself by garnering University positions year after year.

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The college first started functioning from a school building in Keshavpuram, with just two courses i.e., B.Com. (H) and B.Sc. (Gen) with Computer Science. Gradually, courses like B.Sc. (H) Electronics, B.Sc. (Gen) Mathematical Science, PGDCA and B.Sc. (H) Computer Science were added. The new campus of the college at Pitampura, which stands on a sprawling campus of more than 10 acres, started functioning from academic session 2006-07 and courses like B.Sc. (H) Mathematics, B.Sc.(H) Physics, B.A. (H) Psychology and Bachelor of Business Studies (now Bachelor of Management Studies) were added.



Keshav Mahavidyalaya functions with a vision to be a premier institute that nurtures creativity amongst students and instills moral values along with quality education, to enable them to take on real life challenges with confidence. The college has reached great heights in a very short span of time, under the able guidance of its founder Principal Dr. K.P. Chinda and present Principal, Prof. Madhu Pruthi. The institution has consistently moved on the path of success and is acclaimed for its achievements, faculty, and infrastructure.

Major Activities and Achievements

Keshav Mahavidyalaya has a stellar record of 27 years in academic and extracurricular activities and is among the best known off-campus colleges under University of Delhi. The NAAC committee has again accredited the College as an 'A' grade (Cycle 2) institution in the year 2022. The college got 8th rank among Emerging Colleges overall in the India Today- All India Ranking Survey of Colleges, 2021. For BMS course the college was ranked 9th in the category of Emerging Colleges, 4th in the category of Colleges with Best Value for Money and 1st in the Category of Colleges with Lowest Fees. The Hon'able Vice-Chancellor of University of Delhi, Prof. P C Joshi, felicitated the Principals of the colleges in the Council Hall of the Vice regal Lodge. Our Principal Prof. Madhu Pruthi was also felicitated for the commendable achievement and the tireless efforts in upholding the academic excellence of the University. Promotion of faculty members of all stages – from Assistant Prof. to Prof. stage. A total of more than 50 promotions were done.

The Governing body members of the college provided full fee waiver to 14 students who lost their earning family members during the COVID pandemic. Further, the students of the college have been assisted by staff members of the college and various organizations like Bhai Veer Singh Study Circle, Aditya Birla Group, University of Delhi, Various state Governments, INSPIRE Scholarship and, other agencies in these trying times and the college is indeed thankful for the support extended by them.

The college was provided with a free Vaccination facility for COVID-19 for general public by the Government of NCT of Delhi. In association with District Magistrate, North-West and CDMO-North-West the facility became operational w.e.f 23rd June 2021. Hon'ble Acting Vice-

Chancellor Prof. P. C. Joshi along with Dean of Colleges Prof. Balaram Pani, Prof. Suman Kundu Director South Campus, Dr. Vikas Gupta, Registrar and Prof. J. P. Dubey University Representative GB had inaugurated the "Free COVID-19 Vaccination Centre". Continuing the service to society, the Centre is providing vaccination facility to all 18+ individuals from general public w.e.f 1st July 2021. The initiative of the college under the guidance of Principal, Prof. Madhu Pruthi and Teaching and Non-Teaching Staff and medical professionals managing the facility has rendered immense service to the society and has been appreciated by the visiting public and also lauded by the DU health centre. Consunza: The Counseling Cell of Department of Psychology has also provided counselling to students during COVID times. Consunza: The Counseling Cell of Department of Psychology. Free RT-PCR Testing Center for General Public became operational from Saturday, 22nd May 2021. A Youth Voter Centre was established at Keshav Mahavidyalaya from 23rd September 2021 to 30th September 2022 for registration and issuance of voter cards for youth who turned 18 and hence got eligible to vote. An online awareness session was also organized for college students on the occasion of National Constitution Day on 26th November 2021. To improve the online-teaching learning process, college purchased ZOOM online platform and was used for holding webinars for students, faculty, etc.

Honours/Distinctions

Dr. Harpreet Bhatia, Associate Prof. in Department of Psychology, is supervising research of four Ph.D. scholars and five M.A. dissertations. She also handled responsibility of Resource person for a FDP at Ramanujan College on the topic "IPSIT: Indian Framework for Blended Learning". She was also a resource person at Seminar on FEDP: Alcohol and Substance Abuse. She spoke on the topic "Academic and Counselling Experiences in Addiction" on 27 November, 2021; An online FDP on "Recent Trends in Communication, Design, and Technology" conducted by Birla Global University, Bhubaneswar, on 06 – 12 January 2022. Topic of the session was "Leading the Shift to Blended Learning: The Why, What and How" on 06 January 2022; A workshop on "Resilience as a Way of Life" on 8 April 2022 at Institute of Home Economics, University of Delhi. Dr. Bhatia Co-Authored a Book Qualitative Methods: A Practical Journey into Research.



Friends Publications, Delhi, India. ISBN - 978-93-92791-29-1 Dr. Bhatia was also invited as judge at the International Annual Festival, PSYC INSIGHT 2021, of Jai Hind College, Mumbai.

Prof. Priti Sehgal, Prof. in Department of Computer Science has guided two students to successful completion of their Ph.D.

Ms. Prerna Singh June 2022, Thesis entitled "Diagnosis of Dental Caries using Machine Intelligence".

Ms. Richa Gupta, February 2022, Thesis entitled: "Securing Iris Biometric System Against Replay and Database Attacks using Conventional and Deep Learning Approaches".

Prof. Vinita Jindal, Prof. in Department of Computer Science, was the Session chair for the IEEE 9th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2021). Conference was technically Co-Sponsored by IEEE UP Section (INDIA), IEEE held during 3-4 September 2021. She also acted as a Resource person for Refresher Course-NEP for two sessions from 12-26 September 2021 organized by TLC, Ramanujan College, University of Delhi under the aegis of PMMMNMTT; Online 30 hours Add-on Course on Information and Communications Technology (ICT) from 20 February 2022 – 27 March 2022, for three sessions organized by Department of CS under the aegis of IQAC, Swami Shraddhanand College, University of Delhi.

Students with Distinctions

S.No. Name of Students Class

1	Sakshi Bansal	BA (Hons) Psychology
2	Prateek	B.Sc. (Hons) Computer Science
3	Agam Gupta,	B.Sc. (Hons) Computer Science
4	Ankita Sharma	B.Sc. (Hons) Physics

Publications

Gupta, N., Jindal, V., Bedi, P. (2022). CSE-IDS: Using cost-sensitive deep learning and ensemble algorithms to handle class imbalance in network-based intrusion detection systems. *Computers & Security*, 112(2022), 102499.

Kaloiya, G. S., Kaur, T., Ranjan, P., Chopra, S., Sarkar, S., Kumari, A., & Bhatia, H. (Counselling and Behaviour Modification Techniques for the Management of Obesity in Postpartum and Midlife Women: A Practical Guide for Clinicians). *The Journal of Obstetrics and Gynecology of India*. *The Journal of Obstetrics and Gynecology of India*, 1(1), 1-7.

Kaur, T., Ranjan, P., Sarkar, S., Kaloiya, G. S., Khan, M., & Bhatia, H. (2022). Psychological interventions for medically unexplained physical symptoms: A systematic review and meta-analysis. *General Hospital Psychiatry*, 1(1), 1-5.

Kushwah, H., Anand, J. K., & Sachdeva, A. (2021). Enhancement of Optical Coupling Efficiency of Surface Plasmon Resonance Based Sensors. *IEEE Access*, 1(10), 879-892.

Kushwah, Himanshu, and Jagneet Kaur Anand. (2021). Performance optimization of bi-metallic surface plasmon resonance-based sensors with silicon layer using poynting vector analysis. *Optical and Quantum Electronics*, 53(10), 1-32.

Singh J. (2021). Electron-impact rotational excitation cross-sections and rate coefficients of molecular ion: HCO+. *Monthly Notices of the Royal Astronomical Society*, 504(1), 1531-1535.

Singh A., Arora, R., & Arora, S. (2022). Bilevel transportation problem in neutrosophic environment. *Computational and Applied Mathematics*, 1(41), 1-25.

Singh M. (2020). Alimentary meditations in select ancient Indian philosophical thought. *Indian Social Work*, Routledge India, 1(1), 173-183.

Research Projects

IOE, University of Delhi, 2021-22, Role and Usage of Customer Reviews in E-Commerce, Rs. 1,75,000/-



Patents Filed/Granted

Filed and Implementing Blockchain Technology in Automated Teller Machine (ATM) based Electronic Voting Machine.

Seminars Organized

Ankit Kawatra, Founder and Director of Zomato Feeding India, Social Startups, entrepreneurship, 05 October 2021.

Mr. Mohit Uniyal, Instructor and product engineer at Coding Blocks, Data Science Overview, Data Science, 09 October 2021.

Prof. P. C. Joshi, Vice Chancellor University of Delhi, Understanding and Embracing NEP: The way ahead, NEP, 30 July 2021.

Prof. P. C. Joshi, Prof. Balram Pani, Prof. Ruchi Das Vice-Chancellor, University of Delhi, Dean of Colleges, Dean Faculty of Mathematical Sciences, Creation and Development of MOOCs while Managing Online Classes, MOOC, 24 August 2021.

Mrs Punam Nagpal, Product Manager in CISCO (USA), Trends in Cybersecurity, Cybersecurity, 13 September 2021.

Seminar/Conference Presentations

Prof. Anju Arora, presented a paper entitled “Trends and compositional changes in capital flows and its economic impact in India” at International conference on Emerging Issues in Business and economic research organized by Rajdhani College, University of Delhi, 2021, December 17-18, Delhi.

Prof. Anju Arora, presented a paper entitled “Transformative Agenda for Foreign Students Enrolment in Higher Education in India” at One week (Online) Interdisciplinary.

Dr. Amanjot Sachdeva and Ms Astha Kanjlia presented a paper entitled “A Study of Perception of Women in Leadership Roles; Challenges and Covid 19 impact” in International Conference on Evolving Business Strategies in a Transforming Global Environment, organized by Department of Commerce, Jesus and

Mary College, University of Delhi on, 2022, January 20-21.

Alshikhe, Rania, and Vinita Jindal, “Dissecting Big Trajectory Data to Analyse Road Network Travel Efficiency”, ICMLA 2021: International Conference on Machine Learning and Applications, Copenhagen, Denmark, Part V, 2021, June 10 – 11.

Gupta, Neha, Vinita Jindal, and Punam Bedi (2021), “Encrypted Traffic Classification using eXtreme Gradient Boosting algorithm”, ICICC-2021, 2021, February 20-21. Delhi, Best Paper Awarded.

Gupta, N., Jindal V., Bedi P. (2022) Encrypted Traffic Classification Using Extreme Gradient Boosting Algorithm. International Conference on Innovative Computing and Communications.

Prof. Jagneet Kaur Anand and Mr. Himanshu Kushwah, presented a Paper as a Invited distinguished speaker in the virtual event - 3rd Advance Material Science World Congress held during March 21-23, 2022, Canada; Presented a Poster paper in the virtual conference “Frontier in Optics and Laser Science” organized by OPTICA (formally OSA) during 1-3 November 2021. USA; Received Best Paper Presentation award for one of the two conference papers presented in “World Engineering Conference on Contemporary Technologies-WECON 2022” organized by Chitkara University Punjab India, held during, 2022, May 20-21.

Prof. Ritu Arora, presented an online paper entitled “Fuzzy Programming for Bilevel Fractional/Quadratic Transportation Problem with Multi-choice Parameters” in International Conference AORBI 2021 from 17-19 December 2021, held in Indore, M.P. India under Operational Research Society of India. and Applications, Copenhagen, Denmark, Part V, June 10 November 2021, Rank: C conference, pg: 596-603.

Placement Details

51
21.25%

Number of Companies visited for campus recruitment

22



Extension and Outreach Activities

The NSS team for the session 2021-2022 comprising of NSS Programme Officer Dr. Richa Sharma and the four office bearers Ms. Mehar Gulati, B. A. (H) Psychology II Year President; Mr. Gaurav Kapri, B.Sc.(H) Physics II Year Vice President; Mr. Manish Kokila, B.M.S. II Year Secretary; Mr. Agam Gupta, B.Sc.(H) Computer Science II Year Treasurer and 95 motivated volunteers did their best efforts in conducting multiple activities related to social causes, community service and awareness drives in both physical and online modes. The session began with an awareness session- Remembering our Kargil Martyrs on the occasion of Kargil Diwas on 26 July, 2021. 75th Independence Day was celebrated on 15 August, 2021, under the aegis of Azadi ka Amrit Mahotsav, an initiative of the Government of India to celebrate and commemorate 75 years of independence of progressive India and the glorious history of its people, culture and achievements. Retd. Lt. Col. Rattanbir Singh Ji was invited as the Chief Guest for the event. Various drives like Indoor Cleanliness Drive, Plantation drive and Waste Segregation Drive were organized by the Unit. Project Voice for Voiceless commenced with the aim of working for the welfare of animals and birds and the unit organized interactive sessions and poster making competitions to make people aware about the cause. Apart from this the unit organized a workshop on Nest Building which was mentored by Mr. Rakesh Khatri (the Nest Man of India). Project Satark through its events like debate, quiz and survey, was successful in spreading awareness about the rights of an individual as a citizen of India. Vigilance Awareness Week that comprised a series of events including a Pledge Taking Ceremony, a Documentary Screening, a Quiz Competition and a Poster Making Competition was also organized by the Unit. The project Bhartiya took initiative of spreading awareness about various states of India and their cultural diversities through a webinar organized on Status of Tribes in India. The volunteers organized an event named Darpan in which informational videos were created and posters were designed about the myths, facts about menstruation and the hardships experienced by women during their menstruation cycle. The NSS unit has adopted a slum in the vicinity of the college. The project Aavashyak worked for the welfare of people living in the slum. Under this project an initiative was taken by the volunteers to educate

children on the online platform so that even during the pandemic the quality of education these students receive is maintained. To spread happiness, the volunteers distributed goodies to these children following the CAB (Covid Appropriate Behavior) guidelines which helped in establishing a bond between the volunteers and the children. Under the project Parya-Karm, volunteers worked towards building a healthy environment through its events like plantation drives, meme competitions and making informative videos.

The team of the project Nirog took an initiative to spread awareness about healthy living among the society. The members contributed extensively in spreading awareness about COVID-19 by conducting vaccination awareness drives specially for 18+, surveys and a webinar on busting myths about the vaccine.

The unit also organized a survey on the awareness about women's rights. It celebrated the World Navy Day under the project Bhartiya. The unit also organized various events like Hindi Diwas, Teachers Day, World Bamboo Day, webinars on Tobacco Free Environment, Disaster Risk Reduction Day and Breast Cancer awareness. The unit also organised events on various important occasions like Diwali, Children's Day and Gandhi Jayanti. Keeping in mind the importance of physical fitness, the unit organised Fit India Freedom Run on the occasion of World Health/Heart Day.

Project Voice for Voiceless worked to spread awareness about the welfare of animals and birds in several interactive ways. Quiz and poster making competition was held for Penguin Day and World Veterinary Day to spread awareness about penguins and importance of pet health respectively. Instagram posts and reels were made and posted on International Polar Bear Day, Save the Elephant Day, Justice for Animals Week, World Veterinary Day and Animals Rights Day to sensitize people towards animals and stop abuse against them. Events like Pashu Prem and Bird Feeder Event were held to ensure well-being of animals and birds. Under the Project Nirog awareness drives were held to address alarming issues and encourage healthy lifestyle and prevent illnesses that can be fatal.

Webinars and interactive sessions were held regarding Omicron Virus, Cervical Cancer, and World Bicycle Day. Instagram posts and reels were made to inform about physical health on International Day of Zero Tolerance for Female Genital Mutilation and World Kidney Day.



Ocular Event was held to discuss impacts of digital devices on eyes and ways to reduce eyestrain.

Poshan Pakhwada Week was an initiative to encourage healthy diet and fitness under which events like a quiz competition, myth busters about anaemia, reels about nutritious traditional food and healthy eating practices, awareness drive and a survey about diet was conducted.

The volunteers under Project Parya-Karm worked dedicatedly to create awareness towards environment and climate change. Survey was held on Ozone Layer Depletion and a poetry competition was held on World Water Day for recognizing water scarcity and encouraging judicious use of water in a creative way. A plantation drive was held in an effort to induce afforestation and a survey regarding the same was held on World Earth Day. For SVEEP, informative posts were posted on the social media handle of the unit to spread awareness about systematic voter's participation and electoral participation and necessity to vote as a responsible citizen.

Under Project Satark, awareness regarding prevalent social issues was addressed in a webinar held on World Day of Social Justice. Project volunteers also held awareness drives for the prevention of crimes by spreading awareness about duties and rights of people as citizens.

Under Project Bhartiya, the diversity of India's culture and its uniqueness is preserved. This project brought forward the Importance of Indian Ethnic Wear through Instagram posts. Another initiative taken up was "Beti Bachao, Beti Padhao". The project also organised a

Poster Making Competition on International Day for Biodiversity. Rabindranath Tagore Jayanti was celebrated in a very serene manner through Reel Making Competition. World Heritage Week was celebrated by organising a webinar and cleanliness drives. Quiz competition was held during Navy Day and also in memory of the Jallianwala Bagh Massacre. Open mic and documentary screening were held on National Women's Day. Shaheedi Diwas and National Army Day were also celebrated by remembering Chief of Defence Staff Gen. Bipin Rawat. In all, the NSS unit tried its best by contributing to community service and in fulfilling its motto of NSS- "Not me, but you".

Library Development

Under the able guidance of the Principal Prof. Madhu Pruthi, the College Library in association with the IQAC conducted various Library User Awareness Programs for students of all courses. The Librarian, Dr. Rittu Sethi, apprised the students about the various facilities, books, E-resources etc. provided by the College Library and gaining access to numerous online databases under the DU Open access system. Students queries regarding use of and access to Library resources were taken up and addressed by the Librarian.

Faculty Strength

100

Financial Allocation and Utilization

(a.) Rs. 25, 13, 75,608.82/-

(b.) Rs. 24, 65, 37,069.18/-

KIRORI MAL COLLEGE



Brief history

Kirori Mal College was established by American Jesuits in 1951 as Nirmala College in an evacuee building in Qutab Road, Old Delhi 1951. It shifted to its present campus in 1954 and began its first full-fledged functioning from the academic session 1956-57. Since its establishment, the college has focused on all around development of the students. As much as academics, the college is well known for its ECA societies, especially the dramatics society The Players. Over the last 68 years the college has produced numerous achievers across the field including, but not limited to, politicians, bureaucracy, media, films, entertainment, and sports. Some notable alumni of the college include Naveen Patnaik, Girija Prasad Koirala, Madan Lal Khurana, Masoud Khalili, Amitabh Bachchan, Satish Kaushik, Shakti Kapoor, Kulbhushan Kharbanda, Kabir Khan, Sushant Singh Vijay Raaz, Siddharth, Habib Faisal, Subir Malik, Sonam Sherpa, Sargun Mehta, Raghuvendra Singh Mrityunjay Singh Amrit Abhijat, K. K., Saeed Naqvi, Rajat Sharma Mohan Singh Kohli, Yogesh Kathuniya, Sharad Kumar Gaurav Bidhuri, and a number of others.

Major Activities and Achievements

Two academic research centres were established at KMC: Centre for Disability Research and Training Centre for Innovation and Social Enterprise. The college conducted 05 Faculty Development Programmes with the help of Mizoram University which houses the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching. KMC became the recipient of Paramarsh, the UGC Scheme for mentoring Naac Accreditation aspirant institutions to promote quality assurance in higher education. The college initiated a major repair and upgrade of college library, especially the 2nd floor,

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existing office space, and Sports facilities. The college Alumni Association, The Heritage Society of Kirori Mal College: The Official Network of Ex-Students' was duly registered under Societies Act, 1860. The college has been registered on the MSTC, the public sector unit responsible for disposal of ferrous, e-waste and miscellaneous wooden and steel scrap.

Honours/Distinctions

Dr. Anita Kamra Verma: 2021 "Teacher Excellence Award for Research and Teaching" by University of Delhi, Delhi.

Students with Distinctions

S.No.	Name of Students	Class
	PALAK SINGH	B.Sc. (H) Mathematics 1st Yr.
	JAYANT KUMAR GUPTA,	B.Sc. (H) Mathematics 2nd Yr.
	BHAVYA BATRA	B.Com.(H) 1st yr.
	RANJU B.	B.Sc.(H) Phy. 3rd Yr.
	GAURAV KUMAR KAUSHIK	B.Sc. (Prog.) Physical Science (with Comp. Sc.) 3rd Yr.

Publications

Joshi, Seema (2021). (2021). "Rising Importance of remote learning in India in the wake of COVID-19: Issues, challenges and way forward" . World Journal of Science Technology and Sustainable Development, 1(18), 44-63.

Lamichhane N, Sharma S, Parul, Anita K Verma, Roy I and Tapas Sen. (2021). Iron Oxide- Based Magneto-Optical Nanocomposites for in vivo Biomedical Applications. Biomedicines, 3(9), 288.



N. Ranjan, R. Singh I.P.S. Ahuja, R. Kumar D. Singh Anita K. Verma, D. Mittal. (2021). 3D printed scaffolds for tissue engineering applications: Mechanical, morphological, thermal, in- vitro and in-vivo investigations. *CIRP Journal of Manufacturing Science and Technology*, 32(0), 205-216.

Oberoi, R., Halsall, J. P., & Snowden, M. (2021). Reinventing social entrepreneurship leadership in the COVID-19 era: engaging with the new normal. *Entrepreneurship Education*, 2(4), 117-136.

Ravi Kant Tripathi, O. S. Panwar, Ishpal Rawal, C. K. Dixit, Arpit Verma, Priyanka Chaudhary, A. K. Srivastava and B. C. Yadav. (2021). Study of Variable Range Hopping Conduction Mechanism in Nanocrystalline carbon thin Films deposited by modified anodic jet carbon arc technique: Application to light-dependent resistors. *Journal of Materials Science: Materials in Electronics*, 0(32), 2535-2546.

Rishi Pal, Sneha Lata Goyal, Ishpal Rawal, Anil Kumar Gupta, Ruchi. (2021). Efficient energy storage performance of electrochemical supercapacitors based on polyaniline/graphene nanocomposite electrodes. *Journal of Physics and Chemistry of Solids*, 0(154).

Rishi Pal, Sneha Lata Goyal, Ishpal Rawal, Asha. (2021). Lightweight graphene encapsulated with polyaniline for excellent electromagnetic shielding performance in X-band (8.2–12.4GHz). *Materials Science and Engineering*, 270(B).

Snowden, M., Oberoi, R., & Halsall, J.. (2021). Reaffirming trust in social enterprise in the COVID-19 era: Ways forward. *Corporate Governance and Sustainability Review*, 1(5), 120- 130.

S. Pandey, N. Rai, A. Mahtab, D. Mittal, F.J. Ahmad, N. Sandal, Y R Neupane, Anita K Verma, S. Talegaonkar. (2021). Hyaluronate-functionalized hydroxyapatite nanoparticles laden with methotrexate and teriflunomide for the treatment of rheumatoid arthritis. *International Journal of Biological Macromolecules*, 171(0), 502-513.

Vipin Kumar Ishpal Rawal, Vinod Kumar. (2021). Fabrication of n- ZnO/p-Si⁺⁺ Hetero- junction Devices

for Hydrogen Detection: Effect of Annealing Temperature. *Silicon*, 0(0), 1- 13.

Research Projects

DST, 2, Women Empowerment Atlas, Rs. 11,03,455/-

ICSSR, 1, Pradhan Mantri Mudra Yojana, Rs. 1,20,000/-

ICSSR, 2, Community Discourse of Climate Change, Rs. 38,250/-

Seminars Organized

Dr. Mark D Symes, FRSC, School of Chemistry, University of Glasgow, UK, 'Powering the planet using Electrochemistry', atmospheric CO₂ and its effect on climate, 28 February 2022.

Dr. Ryan J. Trovitch, School of Molecular Sciences, Arizona State University, USA, Catalysis for Sustainable Chemistry, Green Chemistry and Catalysis., 28 January 2022.

Conferences Organized

Center for Disability Research & Training, 21 January 2022.

Chemistry Seminar, 01 January 2022, UGC.

Faculty Development Programme – NBHH 2021, 23 November 2021, Candidates.

Certificate Course in Hybrid Mode – Nano Biotechnology, 21 March 2022, Candidates.

Faculty Development Programme - Saksham, 30 September 2021, Candidates.

Seminar/Conference Presentations

Prof. Rajni Gupta, presented a paper in International Conference INSCR on "Edible mushroom from lab to field" held from 2021, November 17-20.

Dr. Renu Kathpalia Presented paper on "Use of Bio-Synthesized Silver Nitrate Nanoparticles to Enhance the Shelf Life of Gladiolus" In International Conference on Advances in Biochemistry, Agriculture & Biological Sciences, 2021, September 24-25.



Prof. Seema Joshi was invited for a Productivity -Talk on the topic “Human Capital for Economic Structural Change” by Asian Productivity Organization, Tokyo on, 2021, October 14.

Prof. Seema Joshi was invited for a talk on the topic “Why does gender equality and women’s empowerment matter for inclusive and sustainable growth?” in an International Conference on ‘Gender Equality Today for a sustainable tomorrow organized by WASD, U.K

Prof. Seema Parihar also presented three papers at 34th International Geographical Congress held in Istanbul, Turkey, 2021, August 16-20.

Dr. Usha Kulshreshtha was invited for Talk at International Conference on “Algebraic and Analytical Methods in Physics XVIII, Czech Technical University Prague, Trojanova Street- 13, Prague, (Lecture Hall 301), 2021, September 1-3.

National/International MoUs Signed

MoU signed with National Centre for Promotion of Employment for Disabled People for the promotion of Disability studies and research, organize FDPs, development of SWAYAM and MOOCs, signed in January 2022.

MoU signed with Mizoram University for identifying mutual collaboration opportunities towards FDPs and short-term training programs of Faculty Development Centre, signed on 24 March 2021.

MoU signed with SAKSHAM for implementation of programme on AAROHAN, signed on 21 July 2021.

Placement Details

162
70%

Number of Companies visited for campus recruitment

175, IT, Computer Software, EdTech, Banking, Consultancy Services, Audit companies, Apparel and Fashion, Health and Wellness, HR, Marketing, Publishing, Real Estate, Research, Retail, Trade and Logistics.

Library Development

A total of 1442 new titles were added to the collection of books, taking the total tally to 155609 titles. The number of books in the book bank now stands at 5974. Reading rooms and book stack rooms are being renovated. The construction of an entire new floor has been undertaken keeping in mind future needs of students and the Library.

Faculty Strength

237

Financial Allocation and Utilization

(a.) Rs. 77,45,00,000/-

(b.) Rs. 70,39,03,379/-

LADY IRWIN COLLEGE



Brief History

Lady Irwin College was founded in 1932, on the 11th day of the 11th month with 11 students from nine different regions across the country. It was the first Home Science college of India established, as was customary under the patronage of the then Vicereine, Lady Dorothy Irwin, the college is proud to have had illustrious founders including Annie Besant, Sarojini Naidu, Rajkumari Amrit Kaur, Kamaladevi Chattopadhyay, Sir Ganga Ram Kaula, Maharani Gwalior, Maharani Baroda and Margaret Cousins. The All India Women's Education Fund Association helped to lay a strong foundation for women's education till the college was transferred to the University of Delhi. The buildings designed by the architect Sir Walter George are now classified and protected as heritage sites.

Lady Irwin College has pioneered women's education, investing scientific emphasis on home and community life. It is indeed a matter of pride that the Father of the Nation Mahatma Gandhi through Correspondence with Rajkumari Amrit Kaur blessed the college with the motto "विद्याहीसेवा". True to the motto, the educational endeavour is to inculcate a spirit of "knowledge to serve" through carefully planned classroom and outreach experiences.

Major Activities and Achievements

The college was rated at A+ by NAAC in 2018 and held All India Rank among colleges at 21, 32, 24 and 16 by NIRF in 2019, 2020, 2021 and 2022 respectively. Lady Irwin College is recognized as State Level Technical

Institution (SLTI) for Delhi State for the Pradhan Mantri Formalisation of Micro Food Processing Enterprises (PMFME) Scheme under Atmanirbhar Bharat Abhiyan by Ministry of Food Processing Industries (MoFPI) GoI. College proudly has projects granted by UNICEF, Department of Biotechnology, Ministry of Science and Technology and Office of Commissioner of Industries, Government of Delhi. The college also has a functional Centre ROSHNI, Centre of Women Collectives led Social Action, A Technical Support Unit to National Rural Livelihood Mission, Ministry of Rural Development supported by UNICEF, India. It also has a MOU with Sector Skill Council: Food Industry Capacity & Skill Initiative (FICSI) for capacity building, training and job opportunities.

Honours/Distinctions

Prof. Anupa Siddhu Co-organiser at International Conference on "Delivery for Nutrition in India: Insight from implementation research" 15-18 September 2021 Co-host with IFPRI.

Inauguration of Solar Panels of Lady Irwin College by Hon. Chief Minister Arvind Kejriwal on 15 October 2021 with NDMC Chairperson.

Dr. Aparna Agarwal, Pradhan Mantri Formalisation of Micro Food Processing Enterprise Scheme (PMF ME) Flagship Scheme by MoFPI, GoI. Department of Food & Nutrition and Food Technology has been recognised as State Level Technical Institution (SLTI) for Delhi Govt.

An infrastructure development project, "Creation of Infrastructure facilities for Food Technology degree



course” funded by Office of Commissioner of Industries, Delhi Govt. for one Crore from 2019 to 2021. The project involved purchase of different analytical equipment for different laboratories of the Department. A research project, “Strengthening Life Science and Biotechnology Education Training at undergraduate level” funded by Department of Biotechnology, Ministry of Science and Technology.

Dr. Manpreet Chahal Participated as an expert in the Working Group Meeting (Online) organized by PSS Central Institute of Vocational Education, NCERT.

Prof. Manisha Sabharwal First prize to M.Sc. Dissertation student, Aishwarya Deorane at UGC STRIDE National Level-Virtual Research Paper Competition organised by UGC STRIDE Capacity Building Centre at Dr. BMN College of Home Science (Mumbai), on 10- 11June,2021. The research paper was titled, ‘Perceived stress and dietary choices during Covid 19 pandemic in men and women aged 25-35 years working as sales executives from home’.

Prof. Neena Bhatia Member, Expert Committee for Centre for Nutrition Research and Training under Division of Nutrition, ICMR, 2021 Member, Expert Committee to review the Project Proposals, Fellowships, Screening and Selection Committees in the Division of Nutrition, ICMR, GOI.

My Journey in the world of Indigo by Dr. Padmini Balaram, Textile Designer & Researcher, Prof. of Design at Silpa- Sadana, Visva- Bharati Textile Conservation: Infusing life, one colour at a time by Ms. Deepshikha Kalsi, Founder, Textile Conservation Studio. Member, TCRC.

Prof. Priti Joshi Board member and resource support for Early Childhood Education, KK Foundation, (a State level NGO) Faizabad, UP, June 2019 - present.

Prof. Seema Sekhri Editorial Board Member, International Journal of Home Economics Dr. Madhuri Nigam Designated Expert - One Planet Network, United Nations Environment Program Member, Advisory Board - World Apparel & Footwear Life Cycle Database, Quantis, Switzerland.

Dr. Sheetal Chopra Member, Editorial Board, National Journal of Environment and Scientific Research since July 2021.

Prof. Simmi Bhagat moderated three public lectures organised by Textiles and Clothing Research Centre in April June 2021. Traditional Aal Dyeing and Handloom

weaving of Kotpad by Prof. Sudha Dhingra, Textile Design Department, NIFT, Delhi and Member, TCRC.

Students with Distinctions

Harveen Kaur won Anupa Sahi Siddhu Gold Medal for excellence for her doctoral work in Lady Irwin College.

S. Shilpa Nair received Sumitra Gurudutt Gold Medal for 1st Position in B.Ed. (Home Science)

Snigdha Homro receive B. Tara Bai Award for 1st Position in M.Sc. Food & Nutrition Final

Vinaya Gupta, won Sanjam Randhawa Award for 1st Position in M.Sc. Fabricand Apparel Science –II

Tanya Jaingot Child Development Alumin Award for 1st Position in M.Sc. Human Development and Childhood Studies II

Publications

Chaturvedi, S. Bhatia, N. Vikram, NK. Madhusudhan, K.S., Pandey, RM. (2021). Association of lifestyle and metabolic risk factors with grades of fatty liver in non-diabetic NAFLD patients. International Journal of Applied Research and Review, 6(6), 37-47.

Dhasmana, R., Rupa, T.G., Goel, S., Sabharwal, M. (2022). Plastic Waste Management in the times of Pandemic: A Review. International Journal of Engineering Research & Technology (IJERT), 11(2), 163-167.

Gupta, S., Rastogi D. & Mathur R. (2021). An assessment of environment friendly methods of khadi manufacturing. Indian Journal of History of Science, 56(1),49 - 59.

Joshi, P. (2021). Partnering with Indigenous communities to develop an equitable early childhood education curriculum in Odisha, India. Asia-Pacific Journal of Research in Early Childhood Education, 1(15), 9-27.

Juneja, S., Kumar A. (2021). Factors influencing Community Healthcare Worker’s adoption of mobile health technology (mhealth): A case of sangini



supportive supervision (sangini)app, Uttar Pradesh, India. Indian Journal of Community Health,3(33),519-522.

Krishnan, A., Balan, S., & Khanna, A. (2021). Developing Communication Tools for Creating Awareness on COVID-19 Pandemic Among School Going Children (6-12YEARS). Journal of Scientific Research, 4(65), 18-22.

Makhija, S., Upadhyay, R. (2021). Availability of food commodities through urban agricultural practices: a study in Delhi. International Journal of Scientific and Engineering Research, 6(12), ISSN 2229-5518.

Princy R., and Chopra, S. (2021). Extraction and Characterization of Inherently Antimicrobial Fibres from Aerial Roots of Banyan Tree. Journal of Natural Fibers.

Singh C., Mital, M., Gupta, P., & Syal, M. (2022). Skill Development in India: Need, Opportunities, and Challenges. International Research Journal of Management Sociology & Humanities, 13(2), 53-61.

Thakur, S.& Mathur, P. (2021). Nutrition knowledge and its relation with dietary behavior in children. And adolescents: a systematic review. International Journal of Adolescent Medicine and Health.

Research Projects

DBT Star Project, 2020-2023 (Ongoing), DBT star college scheme, Rs. 25,00,000/-

Office of Commissioner of Industries, Delhi Govt., 2021 (Ongoing), PMFME Scheme, Rs. 7,61,500/-

DST/SHRI projects, 2019-2022(Ongoing), scientific phenomenon behind the degradation and conservation of work printed textiles of Rajasthan and formulation of conservation of procedures and storage and cleaning of DST/SHRI projects, Rs. 20,00,000/-

MHRD under NIDI scheme, 2019-2026 (Ongoing), Design Innovation Center, Lady Irwin College, Rs. 50,00,000/-

UNICEF, India, September 2018-2023 (Ongoing), Roshni, Centre for Women Collective Led Social Action, Rs. 1,07,64,382/-

Seminars Organized

Mr.A.K. Tripathi and Mr. Raghav Aggarwal, Director General, NISE, MNRE. Director Strategy & Business Development, Rotomag., Green Energy, Green Energy, 05 June 2021.

Dr. Deepti Gupta, Prof., Department of Textile and Fibre Engineering, IIT Delhi, Garment Production: Moving Towards Digitalization, 17th Sanjam Randhawa Memorial Lecture, 30 April 2021.

Dr. Neerja Sharma Senior Consultant, HDCS, Lady Irwin College, learning from the Field: Working with and Supporting Adolescents in Different Contexts, 03 June 2021.

Prof. Keshavan Niranjan, Prof. of Food Bioprocessing, Department of Food and Nutritional Sciences, University of Reading, Reading, UK, Creating Bubble containing Food Structures, Creating Bubble containing Food Structures, 22 June 2021.

Dr. Rico Lie, Wageningen University and Research, The Netherlands, ICTs for Rural Learning, Raushni Deshpande Memorial Oration, 01 April 2021.

Conferences Organized

Gender and Education organized on 26 November 2021, Indian Oil Corporation Limited (IOCL).

Seminar/Conference Presentations

Florence, D. (2021). Significance of Baha festival among Santhal of Jharkhand 2021, December 09 paper presented in national seminar on "Learning and Unlearning Tribal Culture."

Jain R., Goomer, S. (2021). Effect of Particle size, barrel temperature on physical properties and limiting amino acids in extruded snack" in International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETY), organized by University of Georgia, USA and Tezpur University, India, 2021.



Kapoor S. (2021). Co-speaker Changing Children's world: A review of current perspectives, risks and protective factors Unfolding the potential of women and girls: enhancing the potentials exponentially for one and All National Conference, UGC funded.

Konwar D. (2021). Paper presented "Cash Transfers for Social Equality- Experience in India" at XVI International Conference on Public Policy and Management, organized by IIM, Bangalore, 2021, August 24.

Mathur, P. (2021). Panelist for discussion on 'Efficacy and Safety of Micronutrient Supplementation' at the two-day Virtual International Conference on Role of Micronutrients: Immunity and Health, organised by Manav Rachna International Institute of Research and Studies, Faculty of Allied Health Sciences on, 2021, June 19.

Mathur, P. (2021). Presented paper on Nutrition and Lifestyle during Covid 19 during the training program for Covid19 Medical Volunteers organized by MAMTA Health Institute for Mother and Child, on 2021, June 23.

Mathur, P. (2021). Presented paper on Public Health Aspects of Food Safety for the Masters in Public Health students of Public Health Foundation of India, Indian Institute of Public Health on 2021, June 03.

National/International MoUs Signed

Lady Irwin College has a MOU with Sector Skill Council: Food Industry Capacity & Skill Initiative (FICSI) for capacity building, training and job opportunities.

Other Inter-Institutional Collaboration

Several faculty members continue to support and are actively engaged with the Boards of Studies of several universities in the country, SCERT, NCERT and CBSE. The faculty of the college actively participates in consultations to government and nongovernmental organizations, national and international, such as the UN, regarding policy and planning for higher education in general, and the specializations of Home Science in

particular. College participates in many programmes of the ministries of Health, Education, Women & Child and Renewable Energy.

Placement Details

37 Masters, 12 B.Ed.

Extension and Outreach Activities

As this was a pandemic year, the students did not go physically for trips. However, some virtual trips were organized for them. Under the PMFME Scheme, as State Level Technical Institution, Faculty were trained in different domains as National Level Master Trainers and a 3-day District Level Resource Person Training was conducted in the month of June, 2021.

Frontline workers of Railway Children India, an NGO were trained on Infant and Young Child Nutrition by Prof. Pulkit Mathur, Prof. Manisha Sabharwal and Prof.Lalita Vermain March-April 2021.

An interactive Workshop on "Nutrition from locally available food for adolescent and school children" was conducted on 7 April 2021 by Dr. Neha Bakshi.

Prof.Lalita Verma sensitized Aganwadi workers at Department of Women and Child Welfare about "Nutritional Requirements during first 1000 days".

Library Development

22 documents (books and dissertations) and 71 journals were added to the library collection. However, access to numerous e-journals and e-books were provided remotely via DULS and N-List. Library offered webinars for students and faculty on the topics 'Plagiarism: What is it? And how to avoid it?' and on 'Reference Management Tools'.

Faculty Strength

103

Financial Allocation and Utilization

(a.) Rs. 77,18,465/-

(b.) Rs. 77,18,465 /-

LADY SHRI RAM COLLEGE FOR WOMEN



Brief History

LSR embarked upon its journey in 1956 when India was still a young state with a tenuous economy and a fragile and unequal social structure. Women's education was seen as central to the project of democratic transformation. Sir Shri Ram reflected the mood of the times when he established the college to encourage women to aspire towards excellence and socially sensitive leadership. Dr. Bharat Ram with his keen interest in education took the college to newer heights of excellence, to be followed by Mr. Arun Bharat Ram whose commitment to creative experiments in education is well known. As a constituent college of the University of Delhi, LSR has been recognised as a pioneer in women's higher education. The college is recognised under sections 2 (f) and 12 (B) of the UGC Act and is funded through the UGC's grants-in-aid. It is primarily an undergraduate college focusing on liberal arts and social sciences that gradually opened up to other disciplines as well. In addition, the college offers a post-graduate diploma in Conflict Transformation and Peacebuilding. The consistent efforts made by the college in fostering excellence has given LSR a position of pre-eminence as has been established by various respected national surveys.

Major Activities and Achievements

The Mukarji Memorial Debate, hosted by St. Stephen's College, is India's one of the most prestigious debate tournaments. At the 73rd edition of this tournament

held from 9 to 11 April 2021, a team comprising LSR students and alumni won the rolling trophy.

Asian Undergraduate Summit (AUS)-LSR a hosted the AUS on 2 June 2021 as Overseas Host University (OHU) in collaboration with National University of Singapore. The chosen theme was "Education as India's path to inclusive and equitable growth. Dilemmas and solutions". Over 11 Asian countries with 22 partner universities participated.

Annual Day Celebrations 2021- LSR celebrated its Annual Day on 29 June 2021. The function was held in the on-line mode in view of the pandemic situation.

Celebrating International Women's Day 2022: On the occasion of International Women's Day 2022, NSS LSR hosted a Round Table Discussion as a celebration of women's social, economic, cultural and political achievements, and discuss how they are a necessity in today's world.

Matribhasha Divas: Celebrating India's Linguistic Richness- On 21 February 2022, IQAC-LSR, celebrated the Matribhasha Divas, honoring the rich linguistic diversity of our country. The event was conducted online on Zoom and it saw over 160 people in attendance.

Honours/Distinctions

Dr. Meenakshi Pahuja (Assistant Prof.) received the Esther Williams Excellence Award 2022 in Physical Education by (IMRF) International Multidisciplinary Research Foundation.



Excellence Awards & International Day of Education Awards being Conferred on 26 January 2022

Dr. Meenakshi Pahuja (Assistant Prof.) received the Nishtha Women Achiever Award (National Award) 2022 awarded by NGO award Nishtha on 8 March 2022, New Delhi

Dr. Meenakshi Pahuja (Assistant Prof.) received the Women Icon Global Awards by Holistic Health Treatment & Training organization on 26 March 2022, New Delhi

Dr. Vartika Nanda- DEPT OF JOURNALISM- 2022: International acclaim: Dr. Vartika Nanda featured in an exclusive documentary by BRUT India, titled 'Sound of Reform in Panipat Jail'. This documentary is based on her work in bringing radio in the jails of Haryana. Her Tinka Tinka Foundation has conceived, conceptualised and trained inmates to work as Radio Jockeys for jail radios in Haryana. This has helped immensely especially during Covid-19. In 2022, she has conceived and is the voice behind Kissa Khaki Ka- first podcast by any police department in India. These weekly podcasts are scripted and voiced by her. Dr. Vartika Nanda featured on the main page story of Dainik Tribune on Navratri, 'Khamosh Aakash Ko Vaani Deteen Vartika'. She was honored by Delhi Police on the occasion of International Women's Day'22.

In 2021, Vartika Nanda became the author and storyteller for Tinka Prison Radio podcasts on YouTube. These are the only podcasts in India dedicated to prison reforms, providing an outlet to voices from prisons. Nanda introduced, conceptualised and executed prison radio in the state of Haryana. First prison radio was inaugurated in District Jail Panipat in 2021 by Shri Ranjit Singh Jail Minister, Shri Rajeev Arora (IAS), ACS, Home & Health and Shri K. Selvaraj, DG, Prisons.

Introduced prison radio in the state of Uttarakhand. Dr. Vandana Suraj Bhan- Dept of Sanskrit-President, Global Sanskrit Forum, Delhi Region.

Students with Distinctions

Name of Students

Vishwakriti Singh-Got First Prize in Graduate and Post graduate Level Sanskrit Stotra Recitation Competition organized by Delhi Shikshak Sangh

Class- Sanskrit Honours Year –III

Niti Goyanka-Got *1st Prize* in India Quiz by Birla Institute of Technology, Ranchi (350+ participation)
Class- Political Science Honours Year-III

Mahima Yadav-Received Trophy from prime minister Mr. Narendra Modi for NCC
Class- B. El. Ed. Year II

Agrima Gupta, -Cargill Global Scholar, Cohort 10 (Cargill Global Scholars Program (CGSP) is an international program, organized by the Institute of International Education for selecting undergraduate students in India, Brazil, Russia, China, Indonesia and the USA with exceptional leadership potential. She is one of the 10 scholars selected from India, awarded a scholarship of \$ 5000.

Class- Psychology Honours Year I

Rozi-Got 3rd Position in (5000M) Open Delhi State Athletics Championship
Class-Hindi Honours Year III

Publications

Dr. Bhavneet Kaur. (2021-22). Bhavneet Kaur [PDF] from ias.ac.in On sensitivity of the stability of equilibrium points with respect to the perturbations. Journal of Astrophysics and Astronomy, 42(1), 1-13.

Dr. Jyoti Darbari. (2021-22). Structural model for analysis of key performance indicators for sustainable manufacturer–supplier collaboration: A grey-decision-making trial and evaluation laboratory-based approach. Business Strategy and the Environment, 30(4), 1702-1722.

Jyoti Dhingra Darbari. (2021-22). Sustainable performance measurement of Indian retail chain using two-stage network DEA. Annals of Operations Research, 315(2), 1477-1515.

Dr. Jonaki Ghosh. (2021-22). Exploring the Nine-Point Circle: Conjecture making and proof using dynamic geometry software. At Right Angles, (9), 59-65.



Dr. Kanika Ahuja. (2021-22). Fear, xenophobia and collectivism as predictors of well-being during Coronavirus disease 2019: An empirical study from India. *International Journal of Social Psychiatry*, 67(1), 46-53.

Dr. Kanika Ahuja. (2021-22). Scanning the Virus - a study of dimensions of stress and coping with Covid 19. *Current Psychology*, na(na), 1-11.

Dr. Megha Dhillon. (2021-22). Acceptability and preliminary efficacy of a school-based body image intervention in urban India: a pilot randomised controlled trial. *Body Image*, 37(NA), 282- 290.

Dr. Nitin Tanwar. (2021-22). "Growth in Area and Production under Organic Farming in India", *Economic Affairs*, 66(5), 1-7.

Dr. Parul Bansal. (2021-22). Big and Small stories from India in the covid-19 plot- directions for a post coronial psychology. *Integrative Psychological & Behavioural Sciences*, 55(1), 47-72.

Dr. V Ravi. (2021-22). Hypertension during pregnancy and risk of stillbirth: challenges in a developing country. *The Journal of Maternal-Fetal & Neonatal Medicine*, 34(23), 3915-3921.

Journals

Dr. Kanika Ahuja Dr. Megha Dhillon. (2021-22). *The Learning Curve*. Annual, 11(NA), 76

Arushi Arora. (2021-22). *Ecolloquial*. Annual, 8(NA), 225

Arkopriya Pal Meher Nandrajog. (2021-22). *Jabberwock*. Annual, NA(NA), 84

Rajeshwari Umachagi Dhanashree Valunjkar. (2021-22). *Tejas*. Annual, 5, 77.

Ayushi Jain Kanika Shokeen. (2021-22). *Sabab*. Annual, 6, 86.

Dr. Jyoti Darbari, Dr. bhavneet Kaur, Dr. Sucheta Nayak, Dr. Monika Singh. (2021-22). *Éclat*. Annual, 13, 144
Nanda H Yusra Zainuddin. (2021-22). *Noesis*. Annual.

Sociology Students Union. (2021-22). *EXPERIENTIAL JOURNAL*. Annual, 68.

Research Projects

Delhi University institute of eminence Faculty Research Program, November 2021-June 2022, War and Representations, 1,50,000

Ministry of Home Affairs, 3rd phase – from October 2021- Ongoing, Jiyo Parsi Programme, A Central Sector Scheme for Reversing Decline in the Parsi population., 4 CRORE

Seminars Organized

Dr. Rajesh Singh University Librarian, Delhi university Library System, Information skills for 21st Century, 24 December 2021

Prof. Shashi Prabha Kumar Dean of Sri Shankaracharya Sanskriti Mahavidyalaya, MP, Dean of Sri Shankaracharya Sanskriti Mahavidyalaya, MP, Matribasha Divas, 21 February 2022

Dr. Ramnath Jha, Prof. of Sanskrit and Indic Studies, JNU, Prof. of Sanskrit and Indic Studies, JNU, Indian Knowledge Tradition, 7 December 2021

Ms. Nivedita Hatibaruah, Chevening Scholar pursuing a Master of Public Policy at the LSE, UK, Chevening Scholar pursuing a Master of Public Policy at the LSE, UK, "Making Headway after Graduation: A talk session on Masters- India and Abroad", 30 October 2021

Ms. Pragya Nopany, Experiential Learning Expert | Master Trainer at CBSE, National Science Day, 28 February 2022

Conferences Organized

Maazi-o-Mustaqbi, 23 April'21, Funding from LSR

Alethia - Art & Philosophy, 22 April 2021, Funding from LSR Vagarth, 24 February 2022, Funding from LSR

Zeitgeist- 'Different Strokes: Sculpting the New Contours of Psychology in the Post Pandemic World', 12 March 2022, Funding from LSR

SEHAR' 22, on 25 March 2022, Funding from LSR

Seminar/Conference Presentations

Bassi, T. (2022) Digital Gender Divide during the Pandemic: Some Explorations', at the ICSSR sponsored Seminar on 'Information Communication Technologies and Society: Emerging Prospects and Challenges', at Punjabi University, Patiala, on 2022, March 30 (Hybrid mode).

Bassi, T. (2022) 'COVID-19 and Gender Gap in Education: An Exploratory Study through Experiences of Student-teachers, at the Comparative Education Society of India (CESI), 11th Annual Conference (Online), 'Mapping Education in Times of Covid 19', on 2021, December 19. New Delhi.

Chopra, S. (2021). 'Strengthening Physics Teachers' Pedagogical Content Knowledge through Explorations with Agent-based Modelling' at an International Conference on Teaching, Learning and Education organized by Cape Comorin Trust held from 2021, May 06-08.

Dhillon, M. (2022) "Pandemic and Parenting in Urban India: A Qualitative Investigation of Parents' views on the Impact of Lockdowns on Children." Paper presented at the 57th National and 26th International Conference of the Indian Academy of Applied Psychology, organised jointly by the Department of Clinical Psychology and Department of Psychology, Mizoram University from 2022, January 27-29.

Ghosh, J.B. (2021). Mathematical Knowledge for Teaching of Calculus: An Exploratory study of Secondary School Teachers' mathematical thinking related to calculus, at the International Congress on Mathematical Education (ICME – 14) held at Shanghai, China, in hybrid mode from 2021, July 11-17.

Hamid, W. (2022). "Lost in Translation: Border, Language and Translation" for the International Conference on "Discours de haine et traduction" (Hate Speech in Translation/Discurso d'odio e traduzione) organized by University of Calabria, The Do.Ri.F. (Documentation and Research Center for French Language Teaching at the Italian Universities), I-Land (Identity, Language, Diversity) Interuniversity Research Centre online from 2022, March 10-12.

Hamid, W. (2021). "Postcard from Kashmir: The Beloved Witness of Poetry" for the Second International Conference on "Memory and Past in South Asia" organized by the South Asia Research Center, Soka University, Japan online from 2021, November 26-27.

Kaul R. (2022). 'A Robust Parameter Estimation Approach', at the UGC-Sponsored Two Day National Conference on "Advanced Statistics and Applied Sciences – 2022 (ASAS – 2022)", from 2022, March 30-31.

Minocha, A. (2022). "Print Cultures and Language Formations: A Comparative Perspective," paper presented on 6th March 2022 at the International Conference "Comparative Literature: Frames, Methods, and Practice" organized by SNTD University, Pune and Calcutta Comparatists, 2022, March 04-06.

Singh M. (2021). Grand Xp spaces and generalised duality, at the 87th Annual Conference of The Indian Mathematical Society, organized Online by the MGM University, Aurangabad, Maharashtra, 2021, December 04-07 (International Meet).

National/International MoUs Signed

With Sciences Po, Middlebury, La Trobe, Monash, Bath, NUS, Fukoka, Ontario and Macquaire

Other Inter-Institutional Collaboration

Dr. Wafa Hamid Co-conceptualised, organised and moderated "The Agha Shahid Ali Memorial Even" (Conversation and Panel Discussion) in collaboration with The Cambridge Postcolonial and Related Literatures research group, Cambridge University, 7 February 2022.

Dr. Shernaz Cama- Honorary Research Fellow, College of Humanities, University of Exeter & Member, International Advisory Group of the European Research Council Project – "Multimedia Yasna", SOAS

Student under Exchange Program (Inbound/Outbound)

1 student from National University of Singapore for one semester.



Placement Details

231
36%

Number of Companies visited for campus recruitment
150

Extension and Outreach Activities

NSS-LSR kicked off its new academic year with a commemorative set of sessions on Kargil Vijay Diwas with two honorable speakers. Our first session was held on 24 July 2021 with Mr. Vishal Batra as our esteemed speaker and the second session was held on 25 July 2021 and we had the honor of hosting Major DP Singh a Kargil War Veteran.

August also saw an interactive set of sessions on the WHATs, IFs and HOWs of the Pandemic. The first session was conducted on 14 August 2021 with renowned virologists- Gagandeep Kaur and the second session on 16 August 2021 with virologist Shahid Jameel. The sessions were extremely informative in nature.

September marked NSS-LSR's annual event KALA on the 18th of September based on the theme: 'Jashn-e-Riwayat', translated to Let's rejoice in tradition. This event consisted of a myriad of activities for all the children associated with our organization to enjoy and participate in.

NSS-LSR also conducted a speaker session with Mr. Devendra Kumar Gupta, on Shattering the Glass Ceiling: Stories of Triumph, Struggle and Passion. He is the founder of Ladli Foundation

which is associated with Delhi Police and other departments of the Govt. of India. He is a national award winner, and in the session, shared with us his work towards making a difference in the society. The session was conducted on Zoom and started with a great inspirational story of his life. Despite being born in the slums and left to fend for himself and his younger sister when he was 2 years old, he did not give up and decided to provide dignity, work and life to lakhs of underprivileged slum girls.

We also had a speaker session with the esteemed Smt. Maneka Gandhi on 'Animal Rights: Digging Deeper into the WHATs, IFs and HOWs on 22nd October. In the first part of the session, Ms. Gandhi shared her perspectives on animal rights and in the

second part, volunteers asked questions from the speaker. The session was quite interactive and insightful.

The same month saw the National Youth Voter Registration Drive (as mandated by ECI) to increase youth participation in the easy Indian electoral process. 100+ unregistered voters were registered on the Election Commission of India portal.

February marked the Pawfect Valentines Week for our 'pawfect' friends. This included feeding stray animals, Zoophoria quiz, Do's and Don'ts workshop, card making and photography competition and Live and let live awareness session.

In April, NSS-LSR hosted its annual event NEXUS on the 16 April, the theme for which was "Aiding the Ailing Healthcare Sector of India: Concerns and Challenges". It included several kids' corner events, 4 competitive events and 2 panel discussions. The first Panel Discussion was on the theme 'Female Fettle: Concerns and the Way Forward'. The aim was to shed light on the health problems faced by women which are often downplayed, and the disparity that exists in their treatment. The event started with the moderators - Megha, Reva and Himanshi - addressing the gathering. The panelists included remarkable personalities – Dr. Deeksha Singh Dr. Shehla Jamal, Ms. Uttara Seshu and Dr. Manjula Anagani. After a short break from the first Panel Discussion of Nexus'22 which was held in the morning, the evening of 16 April, 2022, commenced with a very insightful Panel Discussion on the topic 'Overarching Policy Landscape in India with reference to the Healthcare Sector.' The moderators introduced the theme of nexus as well as the topic of discussion and welcomed the 4 panelists - Ms. Roosa Tikkanen, Dr. Vikas Bajpai, Dr. Garima Gupta, Kapila and Dr. Nemthianngai Guite.

The Voluntary Agency Placement Programme (VAPP) provides a safe space for students to engage with various socio-economic issues and thought-provoking discussions, opportunities to volunteer and intern with NGOs to explore the possibilities of alternate careers in development sector.

VAPP began its activities in 2021-22 with a session on 'Emotional Freedom Technique' in collaboration with the Offbeat Support Foundation on 30th September 2022, where the trainer, Ms. Preeta Pradhan



demonstrated how to use fingertips to stimulate energy points in the body.

VAPP organized a virtual field trip on 23 November 2021 to Udayan Care NGO which aimed at taking a glimpse into the lives of girls who have been enabled to achieve heights of success through Udayan Care's flagship programme - Udayan Shalini Fellowship. Another event was a session on 'Women in Civil Services Then v/s Now' with Ms. Garima Panwar, I.A.S, Assistant Commissioner Office, Bidar and Ms. Ira Singhal, I.A.S, Deputy Commissioner, Revenue Department on 15 January 2022. Through the session started with the journeys of the speakers, the challenges women faced earlier and how these challenges have changed over the time considering the pandemic. VAPP also conducted an informative session on 'Gandhi Fellowship' in collaboration with the Gandhi Fellowship Program. Gandhi Fellowship is a 2-year full time transformational youth leadership program offered by Piramal Foundation. It was held on 20 January 2022 Afterwards, on 15 February 2022 there was a session on 'Special Education in India' with Ms Riya Rastogi, a special educator. VAPP released various editions of monthly magazine "PULSE" and the newsletter "INSIGHT" on the social development sector covering a variety of issues. VAPP has also circulated 25+ internship and volunteering opportunities with the student body in the development and social sector providing them a chance to explore alternate careers. In Environment week, VAPP decorated its soft-board on the topic "Eco-Warriors of India ". VAPP also took an initiative of thanking the gardeners of LSR for their immense hard work and contribution collecting thankful messages for gardeners from the student body and hung them on trees. In Umang 2022, VAPP had put up HASTHKALA: Embroidery workshop stall wherein coordinators taught basic embroidery designs to participants. This was aimed at revival of the lost art of embroidery. More than 50 students participated in the workshop and created their own designs. The workshop enhanced the knowledge and creativity of students. The session ended with a mellifluous evening, in collaboration with Dhvani, Indian Music Society of LSR. The rejuvenating musical session "RAAG" was held on 14 April 2022 in collaboration with Rhythm of Life, an NGO working with underprivileged children with the aim of nurturing them into confident independent

adults through a specially designed curriculum ABC (Activities Based Curriculum).

Library Development

The Lady Shri Ram College has one of the largest libraries in terms of space and collection in Delhi University with over 140000 (approx.) books. The LSR Library has special collection on

Gandhiana, Women Empowerment, Environmental studies and Personality development books under REACH collection. 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 subscribes to NLIST (National Library and Information Services Infrastructure for Scholarly Content) which provides access to e-resources to its members. The library provides various services such as reference service, circulation service, question bank, syllabus bank, Audio service for visually challenged persons, book bank service, and Open access to book shelves. The library is computerized and books are bar-coded and made easily accessible through OPAC (Online Public Access Catalogue). With the fast-growing collection, both in digital and print form using the state-of-the-art facilities, the Library is contributing to the College academic mission of becoming a world class Learning Resource Centre.

To commemorate 'Azadi ka Amrit Mahotsav (75 Years of Independence)' Library organized a series of events such as A webinar on 'Information Skills for 21st Century' organized by Lady Shri Ram College Library in collaboration with IQAC on 24 December 2021. Chairperson for the webinar was Principal Prof. Dr. Suman Sharma. The resource person for the webinar was Dr. Rajesh Singh University of Delhi Librarian and Coordinator for the same was Dr. A. P. Yadav. The webinar was attended by around 400 participants. In the end there was a question/answer session. The webinar was found very useful by the participants and they highly appreciated it.

For the purpose of Exhibitions and Book Display, the Library organized one-week poster exhibition and book display in 2022 to commemorate 'DU Centenary year' and 'Indian freedom movement from 17th Century to 1947'. The exhibition and book display were



inaugurated by the Principal Prof. Dr. Suman Sharma and they were highly appreciated by the Faculty members and the students. The exhibition was visited by around 2000 visitors. Visitors gave positive comments regarding the exhibition in the visitor register.

Library organized a one-week poster exhibition and book display in 2022 to commemorate the '150th birth anniversary of Sri Aurobindo Ghosh'. The exhibition and book display were inaugurated by the Principal Prof. Dr. Suman Sharma. The poster exhibition displayed the spiritual and yogic works of Sri Aurobindo and her spiritual partner "The Mother" Mirra Alfassa. The books in the exhibition displayed both the works written by Sri Aurobindo and The Mother and the books written on them. The exhibition was highly appreciated by the Faculty members and the students. The exhibition was visited by around 1000 visitors. Visitors gave positive

comments regarding the exhibition in the visitor register.

The library has replaced the automation software from Libsys (commercial software) to Open source software KOHA. Koha is an open-source integrated library system (ILS), used worldwide by public, academic and special libraries. It has been installed in the library with Web OPAC to access library collections easily from anywhere around the globe. Installation & Configuration of Mysql database, mail server, Apache server with KOHA LMS was done along with data migration from Libsys to Koha

Faculty Strength

163

Financial Allocation and Utilization

(a.) Rs. 46,59,93,339/-

(b.) Rs. 49,57,26,000/-

LAKSHMIBAI COLLEGE

Brief History

Lakshmibai College has taken steady strides in the direction of tapping the full human potential of all the stakeholders of the institution to provide high quality education and build upon the foundational, critical and creative capacities of its students. In keeping with the mandate of the New Education Policy, the college has ensured an optimal learning environment and support for students. Every department, committee and society of the college has striven to provide opportunities, access and fora to make learning more inclusive, experiential and holistic, thereby addressing what the NEP refers to as "the developmental imperative of our country."

In a unique balance that the College tries to maintain between the claims of tradition and modernity, it has tapped into the rich heritage of country's culture by building upon India's thought and philosophy that clearly states that it is only through the acquisition of knowledge that complete realisation and liberation of self is possible. The College has embarked upon several projects, partnerships and collaborations in order to expand the pool of resources available to our students with a view to both preserving the cultural legacy of us

country while also harnessing the stupendous potential of technology.

Major Activities and Achievements

In the last one year the college undertook multiple community outreach initiatives to combat Covid-19 which include a 100 bed Covid facility, an ambulance and vaccination centre. Rural courtyard, Gokul, also Go-Cool, was constructed on the lines of a sustainable village model. As part of the green initiatives, the college has built a pond ecosystem to recharge ground water and enrich the aquatic biodiversity. Knowledge Creation Cell, was formed with a view to empower Bhartiya Knowledge Systems. College also entered into two international collaborations with Trinity College, London and Indo-American Green University. Apart from this, the college also entered into collaboration with Five state universities under Vidya Vistar scheme. Several students from the college participated and won accolades at national level in various sports categories like Judo, Volleyball, Shooting and Kabaddi.



Honours/Distinctions

Prof. Pratyush Vatsala awarded with Dr. APJ Abdul Kalam National Dedication Award in the Field of Higher Education on 7 March 2022 at Hansraj College, University of Delhi.

Prof. Anita Malhotra served as a member of several academic and research institution and as an Expert Member on FSSAI panels. She has been guiding six Ph.D. Scholars. She is also an Executive Member of Nutrition Society of India and has been a Peer Reviewer for an Elsevier Journal.

Prof. Lata Sharma is recognized as research supervisor by Department of Commerce, Delhi School of Economics, University of Delhi.

Prof. Alka Harneja recognised as supervisor for Ph.D./ M.Phil. courses as per the approval of Board of Research Studies (B.R.S.), Faculty of Commerce and Business, University of Delhi in November 2021 and was conferred with Acharya Award 2021, which is a recognition to exemplary educators of the Nation on Teachers Day for commendable contribution in the field of education by Experience Japan, Haryana India.

Dr. Ambuj Tripathi conferred with National Education Excellence Award 2021 in Development Politics, International Multidisciplinary Research Foundation (IMRF) which was registered with Government of India, NITI Aayog and NGO Darpan.

Dr. L.R.S Lakshmi conferred with International Research Excellence Award in Modern Indian History in December 2021 from the Centre for Professional Advancement, Vijayawada.

Dr. Sabrina Sareen awarded with International Education Excellence Award 2021 in appreciation of teaching and research excellence in Home Science, conferred on 18 December 2021 by Centre for Professional Advancement, registered under NITI Aayog, Government of India and was also awarded Best Oral Presentation Award for her research paper.

Ms. Ojaswini Hooda was awarded with Elli Köngäs-Maranda Student Prize for 2021 instituted by American Folklore Society.

Students with Distinction

Ms Anchal Kumari, Ms Chavi Kumar Ms Poorvi Arora and Ms Smriti Shah are college toppers with a CGPA score of 9.05.

Ms Abha Pundir is a college topper with a CGPA score of 9.

Ms. Vanshika Yadav participated in the 64th National Shooting Championship in Pistol Event and qualified for Indian team trials.

Ms. Tammana participated in 64th National Shooting Championship held at Bhopal and qualified for Indian team trials in 3 events, namely, 50m 3 position, 50m prone position and 10m air-rifle.

Ms. Aakanksha secured 2nd position in the 40th Junior National Shooting Volleyball Championship at Maharashtra.

Publications

Malhotra, D. (2021). Designing and Conducting Randomized Controlled Trials: Basic Concepts for Educating Early Researchers in the Field of Clinical Nutrition. *Cureus* 9. 13(8): e17036.

Malhotra, D. (2021). Gluten Content in Labeled and Unlabeled Gluten-Free Food Products Used by Patients with Celiac Disease. *European Journal of Clinical Nutrition*. 75(8):1245-1253.

Malhotra, D. (2022). Executive Summary of Evidence and Consensus-Based Clinical Practice Guidelines for Management of Obesity and Overweight. *Midlife Women: An AIIMS-DST initiative. Diabetes Metab Syndr*. 12;16(3):102426.

Malhotra, D. (2021). Impact of Corona Virus Disease 2019 Pandemic on Adherence to Gluten-Free Diet in Indian Patients with Celiac Disease. *Indian J Gastroenterol* 40(6):613-620.

Harneja, D. (2021). Corporate Social Responsibility: A Need for Holistic Approach by Indian Companies. *International Journal of Management, IT & Engineering*. 11(6): 2249-0558.



Zafir, D. (2022). Upending Gender Dynamics: Feminist Touch-up of Titus Andronicus in The Hungry” in Jigyasa H Sondhi and Himadri Roy (Eds) Author to Auteur: Theories and Film Adaptations. Worldview Publications.

Sareen, D. (2022). Natural Black Dyeing: A Sustainable Way Ahead. Natural Volatiles & Essential Oils Journal. 8(4): 14255-14268.

Uma, D. (2021). Differences and Similarities: A Study of Pattern of Disease Related Mortality in Middle-Aged Females of South Africa and India. International Journal of African Studies. 1(4): 25-41.

Tripathi, D. (2022). Dalit Movement in Karnataka: Current Challenges and Intersectional Aspects. Journal of Humanities and Education Development. 4(1): 2581-8651.

Hooda, O. (2021). Performing the ‘Maternal’ Body. Sanglap: Journal of Literary and Cultural Inquiry 7(2): 1-25.

Research Projects

National Project Implementation Unit (NPIU) sponsored project entitled, ‘Computational Techniques solving PDEs with Appliance Engineering Problems’ from June 2019 to September 2020. Sanctioned amount = Rs. 3,48,000/-.

Department of Science and Technology (DST-SEED) sponsored project entitled, ‘Development and Evaluation of a Women-centric Comprehensive Weight Management Module’ for the period 2020-21. Sanctioned Amount Rs. 34,28,560/-.

Indian Council of Social Science Research (ICSSR) sponsored project entitled, “Political Ethos of Delhi - Making a Case for Gender Inclusive Governance’ for the period 2020-21. Sanctioned Amount Rs. 8,00,000/-.

Seminar/Conference Presentations

Ms. Deebea Zafir presented a paper entitled, ‘The Burden of Childhood: The Dalit Child in Sheoraj Singh Bechain’s My Childhood on My Shoulders,’ at the two-day International Conference on Child and Childhood:

Imagineries in India and Other Asian Children Literature and Film organized by the Department of English and Cultural Studies, CHRIST (Deemed to be University) Bannerghatta Road Campus, Bangalore on 2021, November 11-12.

Ms. Deebea Zafir presented a paper entitled, ‘Caste Blindness and Dalit Vision: The Blind Tau in Sheoraj Singh Bechain’s My Childhood on My Shoulders’ in the five-day 2nd IDSC International E-Conference on Disability: Resistance, Disruption and Transgression organized by Indian Disability Studies Collective (IDSC) from 29 November to 3 December 2021 in collaboration with Guru Angad Dev Teaching Learning Centre, SGBT Khalsa College and Centre for Disability Research and Training, Kirori Mal College, University of Delhi under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT) Ministry of Education.

Ms. Deebea Zafir presented a paper entitled, ‘Dalit Literature and Productive Crisis in the Humanities’ at the Graduate Research Meet 2021 on Humanities and Social Sciences in an Age of Crisis held on 2021, November 11-12 organized by the Department of Humanities and Social Sciences, Indian Institute of Technology, Guwahati.

Dr. Sabrina Sareen presented research paper entitled, ‘Sustainable Menstrual Practices through Development of Reusable Sanitary Napkins’, in an International Interdisciplinary e- Conference on Sustainable future for humanity: The New Learning Curve, organised by Maitreyi College, University of Delhi on 2022, February 24.

Dr. Nirmal Shahid presented a paper entitled, ‘Punjabi Sahitak Roopakar: Adhyan ate Adhyapan’, organized by Mata Sundari College on 2021, September 20.

Dr. Ambuj Tripathi presented a paper entitled, ‘Intersectionality’, at an International Multidisciplinary Conference 2022 organised online by International Research and Development Centre for Publication (IRDCP) on 2022, January 21-22.

Dr. Tripti Deo presented a paper entitled, ‘Matters of the Household among the Charans of Western

Rajasthan', at the 1st International Conference organized by Asiatic Society for Social Science Research on the 2022, January 07-09.

Ms. Ojaswini Hooda presented a paper entitled, 'Emotional Economy of Migration: Women's Perspectives on Male Outmigration in Folk Singing Tradition of Haryana' at the American Folklore Society Congress held during the month of October 2021.

Dr. Dolly V Muanching presented a paper entitled, 'Voicing Terror and Fear: Revisiting Writings from Northeast India', at the 3rd International Interdisciplinary Online Conference on Memory, Guilt and Shame organized at Poland on 2021, October 21-22.

Ms. Avantika Chamoli presented a paper entitled, 'Representation and Ramification of Migration in the Folk and Popular Songs of Garhwal', during the American Folklore Society Congress in the month of October 2021.

Other Inter-Institutional Collaboration

Collage has initiated collaborations with:
Indo- American Green University Network
Trinity College, London

Collaborations under Vidya Vistar Scheme, University of Delhi:
Patkai Christian College, Dimapur, Nagaland.
Dibrugarh Hanumanbax Surajmall Kanoi College (DHSK)
Dibrugarh University, Assam.

Collaborations with Prestigious Colleges from other States:
Shri Guru Ram Rai PG College Dehradun, Uttarakhand.
K.S. Saket P.G. College, Ayodhya, Uttar Pradesh, RML
Awadh University
Barrackpore Rastraguru Surendranath College, affiliated under the West Bengal State University.

Financial Allocation and Utilization

Grant sanctioned = Rs. 44,83,20,000/-
Grant utilized = Rs. 42,67,80,400/-

MAHARAJA AGRASEN COLLEGE



Brief history

Maharaja Agrasen College was established in August 1994 as a constituent college of the University of Delhi. Initially named Co-Educational College, it was later rechristened as Maharaja Agrasen College, after a great Indian ruler. Catering to the educational demands of the thickly populated East Delhi, the college commenced its journey with 220 students enrolled in

the two most popular courses: B.A. (Pass) and B. Com (Hons) in a part of a school building, without adequate water and electricity. In 2010, the College shifted to a spacious state of the art infrastructure spread over 10 acres and offers 10 courses across 15 departments to nearly 2400 students and attracts the student intelligentsia from various parts of the country. Its'



phenomenal growth has been recognized in its assessment and accreditation by NAAC with Grade 'A' in 2016 and All India Rank 52 by NIRF. The college is well equipped with a wi-fi enabled campus, two conference rooms, five smart hybrid classrooms equipped with state-of-the-art multi-media teaching aids, a 750-seater auditorium, a contemporary ICT and media lab, sports ground, well equipped library and Laboratories along with a 58 seat- girls hostel. The college takes pride in its community outreach programs like Project ABHI and Akshar.

Major Activities and Achievements

The major activities undertaken by the college included the setting up of five Smart classrooms, which allowed our pedagogical system to align with the future. To nurture the vision of healthy practices and healthy living, the Vivekananda Study Circle designed Yoga workshops for teachers, and Sports Committee of our college inaugurated the cycling club. This year also saw the inauguration of Maharaja Agrasen Cup - an Inter College/University Sports Tournament, which registered our vision to nurture a healthy mind, spirit, and body. The college also engaged in participatory and experiential forms of learning like, collaborations with Baroji village under the Agrasen Baroji Help Initiative ("ABHI"). A two-day National Student Academic Congress was organized on the topic "Power of Education" where pedagogical systems of the past and the present were critically investigated. The NCC 2 GDDN - Girls Wing continued to provide a training ground for our cadets in 2021 to become empowered and to participate in numerous socially relevant causes and campaigns. Several career advancements of our teaching faculty— 4 faculty members were promoted from Stage I to Stage II, 14 from Stage II to Stage III, 15 to the level of Associate Prof., and 17 faculty members became Prof.s.

Honours/Distinctions

Prof. Maneesha Pachori, College Lecturer Award, by Directorate of Higher Education, Delhi Government

Students with Distinctions

Name of Students	Class
Mridula	B.A (Hons.)
Sharma	English III yr
Prachi	B.A (Hons.)
Rastogi	Journalism IIIyr

Geetika Jain Saxena. (2021). Robust and Secure Digital Image Watermarking Technique Using Arnold Transform and Memristive Chaotic Oscillators. IEEE Access, 9(NA), 72465-72483.

Geetika Jain Saxena and Amit Pundir. (2022)., Cyber-Physical Systems Enabled Transport Networks in Smart Cities: Challenges and Enabling Technologies of the New Mobility Era. IEEE Access, 10(NA), 16350-16364.

Vandana Kumari. (2021). TCAD Based Investigation of Single Event Transient Effect in Double Channel Algan/Gan HEMT. IEEE Transactions on Device and Materials Reliability, 21(3), 416-423.

Vandana Kumari. (2021). TCAD Investigation for Dual-Gate MISHEMT With Sapphire, SiC, and Silicon Substrate. IETE Technical Review, 38(2), 197-205.

Vandana Kumari. (2021). TCAD-Based Investigation of Double Gate Junction Less Transistor for UV Photodetector. IEEE Transactions On Electron Devices, 68(6), 2841-2847.

Amit Pundhir and Geetika Jain Saxena. (2021). An Improved Decision Support System for Identification of Abnormal EEG Signals using a 1D. IEEE Access, 9(NA), 163492-163503.

Sushmita Rajwar. (2021). India Seeking Its Diaspora in South Africa: Responses from The South African Indians. Asiatic Society for Social Science Research Journal, 3(1), 80-90.

Indrani Das Gupta, (2022). Fragile Fictions, Disabled Body in Posthuman World: Reading Manjula



Padmanabhan's Short Story "Interface", University of Lodz, Romania International Journal, 12(1), 75-85.

Sudhir K Rinten. (2021). Rashtriya Shiksha Neeti evam media saksharata. Gyan Garima Sindhu, 72(NA), 101-107.

Prem Kumari Srivastava. (2021). The Contemporary Relevance of Leslie Fiedler. Literary Voice: A Peer Reviewed Journal of Literary Studies, 2(13), 55-60.

Journals

Dr. Shilpa Gupta, and Dr. Debosmita Paul. (2021). Journal of Social Enquiry. Quarterly, 13(1), 100

Research Projects

ICSSR, Delhi, March 2022/ 2022-2024, Diver City: A Virtual City Compendium Project (VCCP), 500,000.00

ICSSR, Delhi, March 2022/ 2022-24, Mapping Trajectories of Indo-Central Asia Relations, 700,000

Seminars Organized

Prof. Avinash Chandra Pandey, Director, Inter-University Accelerator Centre, Delhi & Former Director, Institute of Interdisciplinary Studies, University of Allahabad, NA, 8th Sardar Patel Memorial Lecture, on 31 October 2021

Prof. Girishwar Misra, Former Vice-Chancellor of Mahatma Gandhi Antarashtriya Hindi Vishwavidyalaya, Wardha, Swami Vivekananda's perspective of life, 8th Vivekananda Memorial Lecture, 12 January 2022.

Prof. Khagesh Gautam, Associate Prof. of Law and Assistant Director at Centre for Public Law & Jurisprudence, Jindal Global Law School, A Re-Examination of the Role of the President under the Indian Constitution, Constitution Day, 30 November 2021

Mr. Dhruv Govil, Data Scientist, Appwars Technologies Pvt. Ltd., (A Ministry of MSME, Govt. of India Approved Enterprise), Data Science using Python, a five-day workshop on Data Science, 15 November 2021

Mr. Rahul Bajaj, Mr. Amir Jain, Senior Resident fellow; Vidhi Centre for Legal Policy; Legal Counsel, Accenture,

Digital Accessibility as a Right, Online National Workshop, 8 March 2022

Conferences Organized

Two-day National Conference on 'Indian Culture and Communication', 11 March 2022, ICSSR

Two-day National Student Academic Congress on "Power of Education" on 3 February 2022, Maharaja Agrasen College, DU

Seminar/Conference Presentations

Indrani Das Gupta, "Reading Science and Modernity: A Comparative Analysis of US Pulp and Indian Science Fiction Magazines from 1910-1930s", International Popularizing STEM: Science and Technology in 21st-Century US Popular Culture, 2021, November 17. Association for US Popular Culture Studies, Madrid, Spain

Indrani Das Gupta, "Scientific Futures in Shweta Taneja's "Bhaisaab Bespoke Brides Boutique" International to Write Like a Woman: Gender and Science Fiction (Session Part 2), 2022, March 10-13, NEMLA in collaboration with University of Buffalo and John Hopkins University, USA

Indrani Das Gupta, "Worlding of Worlds: History of Assemblages in Select Postcolonial Indian Science Fiction Texts", International Science, Culture & Postcolonial Narratives, 2021, May 13-15, University of Oldenberg, Germany.

Shilpa Gupta, "Breaking the Silence: Voices of Women with Disabilities", Atlas 8th International Social Sciences Congress, 2021, July 11-13, Turkey

Debosmita Paul, "Imagining the Bengali Nation: Tracing the Birth of Bangladesh through select short stories from East Pakistan/ Bangladesh", International ULAB Multicultural Conclave, 2022: A Dialogic Imagination of Bangladesh: Literary-Linguistic-Cultural Representations, Non-representations and Misrepresentations, 2022, February 25-26, University of Liberal Arts, Bangladesh



Guntasha, *Orientalist Worldview, Translation, and Indigenous identity Affirmation in the British Colonial Punjab*, International Circulations, Mediations, Negotiations: New Perspectives on Translations from South Asia, 2022, March 02-05, IACLALS

Anshul Taneja, “Integrating Intuition with Rational Approach for Strategic Decisions”, International Corporate and Economic Transformation- Embracing the Change, 2022, March 24-25, Department of Management Studies and Department of Commerce, Deen Dayal Upadhyaya College, University of Delhi in association with Kautilya Foundation

Nabanita Deka, *The Mask of Language: Understanding Society, Culture and Gender through Language*, International Contemporary Trends in World Literatures, Language and Cultural Studies in English, 2021, September 29-30, UGC Sponsored conference jointly organised by the Department of English, Bhopal School of Social Sciences and Christ College (Autonomous) Irinjalakuda, Kerala

Rakesh Kumar “Methods to Measure Financial Inclusion”, International Future of Commerce and Management in Indian Economy, 2022, March 13, Academic Association of Commerce and Management.

Tej Narayan Ojha, “Tulsidas Varnit Ramkatha Mein Bhartiya Sanskriti”, International ShriRamkatha ke Sandarbh mein Vaishvik aur Bhartiya Bhasha ka Lalitya evam Sanskriti ka Poshan, 26 March 2022, Sahityik Sanskritik Shodh Sanstha, Mumbai / Kendriya Hindi Sansthan, Agra / Rajendra Academy

Placement Details

70
35%

Number of Companies visited for campus recruitment 29

Extension and Outreach Activities

Three Day Visit to Baroji Village, Haryana from 20-22 March 2022 under project ABHI (Agrasen Baroji Help Initiative) and five workshops were conducted on sports, personal hygiene, women empowerment, online classes, and organic farming. SICMACAY - VIRASAT from 26 February to 3 March 2022;

Alumni Interaction organized on 27 November 2021 via Google Meet with Archana Mangtani, Batch 2003, Senior Manager in Accenture’s applied intelligence team, and Neha Bhargava, Batch 2006, HR Business Partner Essilor in Singapore. Another one was on 29 January 2022 in the online mode with Ms. Sanya Kharbanda, batch of 2007-2010, senior HR Advisor at AkzoNobel, Mr. Ajay Malik, 1999-2002 batch, a Senior Associate Director at Colliers International, and Mr. Bhaskar Das batch of 2002-2005, Delivery Lead for Nokia.

On 25 February 2022, Mr. Anshul Tewari, the founder of Youth Ki Awaaz and recognized as a Young Innovator by the United Nations International Telecommunications

Library Development

1500 additional books, Facility of “Urkund” plagiarism detection software made available in the library for faculty and students.

Faculty Strength

118

Financial Allocation and Utilization

(a.) Rs. 30,50,00,980/-

(b.) Rs. 30,63,05,552/-

MAHARSHI VALMIKI COLLEGE OF EDUCATION

Major Activities and Achievements

During the prolonged global pandemic, Maharshi Valmiki College of Education focused on providing all supports and assistance to its students and staff,

whether they were teaching and learning in person or online mode. Despite the pandemic, the College



continued to press forward and work on substantial improvements to its teaching learning process. Throughout the academic session, we used our expertise in technology to support active, meaningful learning experiences for our students.

The School Experience Programme (SEP) for B.Ed. Second year in the academic year 2021-22 began on 04 October 2021 with the Online Orientation Programme for two consecutive days. The Field Observation (FO) programme for B.Ed. First year began with the Orientation programme on February 04, 2022. The entire FO programme was organized in three phases in this academic year including student-teachers' offline visit to respective SEP schools, Teacher-mediated interaction between B.Ed. First & Second year students and Inter-institutional visits. The purpose was to prepare our prospective teachers to post-pandemic teaching contexts and to critically reflect over various possible pedagogical interventions.

Under the present context of Azadi ka Amrit Mahotsav various co-curricular activities (CCA) were organized in the academic year 2021-22 viz. Folk dance, folk songs, story writing and telling, creative self-expressions, nukkadnatak, etc. The student-teachers have participated actively in participating and organizing these activities.

Morning Assembly is a very important part of our college. Students of both years have to deliver thoughts on different topics main focus to deliver his/her own ideas on the concerned topics.

Special Assemblies were organized in this session 2021-2022 on 72nd Republic Day celebrated on 24 January, 2022, International Women's Day (8 March, 2022), Environment Day (5 June, 2022), Non-Violence Day (01 October, 2021), Teachers Day (3 September 2021) and International Yoga Day (21 June, 2022)

A series of Special Assemblies under paper F.3 on the themes of Justice, Courage, temperance, prudence, Plato, Upanishads were also organized.

Students with Distinctions

Overall result of the B.Ed. final was very impressive. Approx. 99% of the appeared students passed the final examination out of which. Himanshu Yadav secured the first position in the University and was awarded the University medal for securing the highest marks in B.Ed. Examination held in 2021.

Publications

Abstract of Conference paper titled 'Experiences of Student-Teachers in the Pandemic Times: Issues and Challenges Raised and Resolved During School Experience Programme' prepared by Dr. Satveer S. Barwal and Ms. Meenakshi Chawla published in The Proceedings of the 3rd International Conference on Virtual Reality, 15-16 November, 2021, Sanliurfa, Turkey, January, 2022.

Kohli, Jyoti. Creative Writing Endeavours in Class: Drafting Print Advertisements. International Journal of Teacher Education and Teaching. Issue 2, Vol. 1, July 2021, pp. 128-31.

Kohli, Jyoti. Profile of Women's Work: Current Situation and the Way Ahead. Samagam, August 2021.

Kohli, Jyoti. ESL Vocabulary Development: Strategies for Learner Engagement. Language and Language Teaching. Number 1, Issue 21, Vol. 11, January 2022, pg. 22-26.

Seminar/Conference/Symposium/Workshop/Presentations

Dr. Jyoti Kohli participated in literary workshop organized by ILLI organized by University of Delhi, 2021, September 14-18. Also served as the Resource Person for FDP-75, Pedagogy for Higher Education, organized by ILLI on February, 2022. Dr. Kohli also organized and co-ordinated the invited lecture on "Inculcation of Scientific Temper: Needs and Way.

Resource Person- Prof. Nitin Kumar Puri, 2021, April 21

Dr. Jyoti Kohli Organized workshop for the B.Ed. Pre-Service Teacher, which included: Readiness for Interviews: Developing C.V & Resume, with Resource Person- Ms. Priyanka Singh on 2022, April 15. A workshop on Phonetics with Ms Shruti Pal as the resource Person was held on 07 September 2021. Another on Transcribing Spoken English with Ms. Shruti Pal as the resource person on 2021, July 15.

Ms. Meenakshi Chawla presented a paper on the topic 'Experiences of Student-Teachers in the Pandemic Times: Issues and Challenges Raised and Resolved During School Experience Programme', 3rd edition of the International Conference on Virtual Reality (VR2021), 2021, November 15-16. Also presented a paper on the topic 'A Reflection on Artificial Intelligence

in Education through SWOT Analysis’ in International Online Conference on Artificial Intelligence in Education for Sustainable Development, 2022, March 28-29.

Ms. Rama Negi Participated in the National Webinar on ‘Effective Online Classroom’ organized by Institute for Research in Indian Wisdom in association with Rishikulshala on, 2021, May 15. (Online mode). Also, attended National Webinar on NEP 2020 in perspective of Teacher Education: 05 June 2021, organized by Susana Methodist Girls B.Ed. College Roorkee (UK). Additionally, participated in one day National Webinar on “GENDER AND DEVELOPMENT: 21st Century Prospective, 18 August, 2021. Further, she attended Five Days Faculty Development Program on “Leadership & Excellence” (Life Skill Management), organized by IES’s Management College and Research Centre, 2022, February 21-25 (Online mode).

Research

Ms. Nisha Arya was Awarded Ph.D. by Department of Education, University of Delhi on the topic “An Exploratory Study of Emerging Adulthood in the Indian Socio-Culture Context, 26 February 2022.

Dr. Raghavendra Prapanna Guided a Ph.D., Department of Education, and University of Delhi, titled ‘SCHOOLEE HINDIBHASHA SHIKSHAN KE SANDARBH ME ALOCHANATMAK SHIKSHANSHASTRA KE UPYOG KI SAMBHAVNAON KA ADHYAYAN’ of Birendra Singh Rawat, awarded on 16 February 2022.

Faculty Strength

Permanent: 12

Adhoc: 4

Financial Allocation and Utilization

Grant sanctioned : Rs. 7,56,57,215/-

Grant Utilized: Rs. 7,08,23,920/-

Other Significant Information:

Under the Pedagogy of Mathematics Ms. Minu Talwar organized webinar to understand the modalities of assessment and introduction to different technologies for online teaching. These webinars encompassed everything from preparing Power Point presentations to using apps like Geogebra, Mathigon etc. Webinars were also organized on topics like context building in Mathematics Pedagogy and also on Financial Literacy. These webinars were organized with the objective of preparing the Maths Pedagogy learners for teaching and assessing learners in an online or blended mode. In view of the pandemic, the College Library prepared reading materials and shared the same with student/faculty groups on Google Drive to support the teaching-learning process of the College. Also, customized user based information was provided to students as per their needs through mail and Whatsapp.

MAITREYI COLLEGE





Brief History

Maitreyi College was founded in 1967 as a constituent college of the University of Delhi. Named after the ancient Vedic scholar, Maitreyi, who when offered a choice between worldly riches and knowledge, chose knowledge. Maitreyi College has sought to embody that same spirit of diligence and dedication in its faculty and students. From making a modest beginning at Netaji Nagar with a staff of seventeen teachers offering only B.A. (Pass) and B.Sc. (General) courses, the College has since grown and flourished into an eminent institution of learning. Currently, Maitreyi College offers 18 Undergraduate courses in Science, Commerce, and Humanities, and 2 Postgraduate programmes in Mathematics and Political Science. The college has a rare distinction of being one of the top six colleges to be conferred the Star status by the Department of Biotechnology (DBT), Government of India. It was also awarded "A" Grade in the NAAC Accreditation cycle of 2016. The college has made rapid strides in overall performance in the past years as is reflected in its consistently improving NIRF ranking which rose from an all-India overall rank of 86 in 2018-19 to 34 in 2021-22.

Major Activities and Achievements

Maitreyi had an extremely productive and rewarding year not only in academics and research but in all spheres. A total of 1379 students appeared in the final year undergraduate examination, and 1357 students obtained I Division with 99.92% as overall pass percentage. Our faculty members brought laurels to the college through their myriad achievements in teaching and research.

Faculty members have authored 11 books, contributed 49 chapters in edited collections, and published 60 research papers. In our college, ample opportunities and platforms are provided to our teachers and students to enhance their knowledge, develop their teaching-learning skills and inculcate research orientation. In total, there were 4 International conferences, 2 national conferences, 119 International and National seminars & webinars, 9 National Workshops, 12 certificate courses were organised in the college. The college thus invited 233 esteemed national and international speakers through these conferences, workshops and webinars to enlighten our faculty and students and with their expert knowledge and experience. The college took possession of the New Science Block from CPWD. It is a matter of pride that the college received several prizes in the Annual University Flower show-2022 viz.

Persian cup for first prize in the 'Best Garden category', second prize in 'Herbal Garden', 'Clean and Green Campus' and in 'Lawn' categories, third prize in 'Rock Garden', 'Rose Garden', 'Border of flowers' and 'Trees, shrubs and Creepers' categories.

Honours/Distinctions

Dr. Jyotsna Talreja Wassan (Department of Computer Science) has been conferred with 'ESDA Young Scientist Award' in World Environment Summit 2021 and 'Outstanding Ph.D. Thesis' by University of Ulster, United Kingdom.

Dr. Manju Bhardwaj (Department of Computer Science), has been Conferred with "National Education Excellence Award in computer Science – 2021" by International Multidisciplinary Research Foundation, India in November 2021.

Dr. Pinkey Bajaj Gandhi (Department of Chemistry) has been conferred with Best Teacher Award by Delhi Government in 2022.

Dr. Pooja Baweja (Department of Botany) has been Conferred with "National Education Excellence Award in Plant Science – Phycology – 2021" by International Multidisciplinary Research Foundation, India in November 2021.

Dr. Veena Ghuriani (Department of Computer Science) has been awarded with 'Indo Asian Eminent Teacher Award 2021' by MRF, NGO registered with government of India NITI Aayog.



Students with Distinctions

Name of Students

Class

Divya Sharma recipient of Millennium Fellowship

Simran Sharma Stood first position in B.Sc. Life Sciences in Delhi University

Varda Sharma secured Gold Medal in All India Inter University Championship held at Manav Rachna University and also secured Gold Medal in Khelo India University held at Bengaluru. She represented India in ISSF Junior World Cup.

B.A(P),
History, III year
B.Sc. Life Sciences, III year

B. Com (P),
I year

Manya Jain, awarded the Best Stall Award, under the category of upcoming artisans in IISF-2021

Riya Aggarwal, founder of "Riding Rangers", an instant delivery startup in Delhi NCR.

B.A. (P) III year
B.A. (H)
Economics, II year

Publications

Dr. Ankita Chaudhary. (2021). Multicomponent Approach for the Sustainable Syntheses of Pyrido[2,3-d] pyrimidine Scaffold. *Current Organic Chemistry*, 25(23), 2856 - 2884.

Dr. Ankita Chaudhary. (2022). Multicomponent reactions through pristine and modified chitosans: current status and future prospects. *Journal of the Iranian Chemical Society*, 19(6), 2191–2253.

Dr. Ankita Chaudhary. (2021). Recent development in the synthesis of heterocycles by 2- naphthol-based multicomponent reactions. *Molecular Diversity*, 25(2), 1211–1245.

Dr. Ankita Chaudhary, Dr. Haritma Chopra, Dr. Ritu Gaba. (2022). Deep eutectic solvent- mediated expedient multicomponent synthesis of oxazine scaffolds. *Research on Chemical Intermediates*,

48(NA), 2267–2278. Dr. Durgesh Kumar. (2022). L-amino-acids as immunity booster against COVID-19: DFT, molecular docking and MD simulations. *Journal of Molecular Structure*, 1250(3), 131924.

Dr. Hema Bhandari. (2021). Investigation of the microwave absorbing properties on polymer sheets, . *Journal of Materials Science: Materials in Electronics*, 32(NA), 25963–25972.

Dr. Jyotsana Talreja. (2021). Role of Deep Learning in Predicting Aging-Related Diseases: A Scoping Review. *Cells*, 10(11), 2994.

Dr. Renu Gupta, (2021). Characterization of *Euplotes lynni nov. spec.*, *E. indica nov. spec.* and description of *E. aediculatus* and *E. woodruffi* (Ciliophora, Euplotidae) using an integrative approach. *European Journal of Protistology*, 79(NA), 125779.

Prof. Renu Gupta, (2022). Molecular characterization and transcriptional modulation of stress- responsive genes under heavy metal stress in freshwater ciliate, *Euplotes aediculatus*. *Ecotoxicology*, 31(NA), 271-288.

Dr. Shalini Lumb Talwar. (2022). Optical properties of hydrogenic impurity in a distorted quantum disk. *The European Physical Journal Plus*, 137(NA), 175.

Journals

Prof. Haritma Chopra, Dr. Gopi Devdutt Tripathy, Dr. Brototi Roy, Dr. Meena Yadav. (2022). *Vantage: Journal of Thematic Analysis* (ISSN: 2582-7391). Bi-annual, 1(1), 124

Prof. Haritma Chopra, Dr. Gopi Devdutt Tripathy, Dr. Brototi Roy, Dr. Meena Yadav. (2021). *Vantage: Journal of Thematic Analysis* (ISSN: 2582-7391). Bi-annual, 2(2), 128

Dr. Pramod Kumar Singh Dr. Pooja Gupta, Dr. Jagmohan Roy, Ms. Apurva Setia. (2021). *Samvedanā e-Research Magazine* (ISSN: 2581-9917). Bi-annual, 3(2), 82

Dr. Pramod Kumar Singh Dr. Pooja Gupta, Dr. Jagmohan Roy, Ms. Apurva Setia. (2021). *Samvedanā*



e-Research Magazine (ISSN: 2581-9917). Bi-annual, 4(1), 86

Research Projects

Department of Biotechnology, Government of India, 2017-2021, Understanding Signaling Mechanism of Inflammation in fish *Channa punctata*, Rs 3584000

Institution of Eminence, University of Delhi, New Delhi, 2021, Faculty Research Programme (FRP) under the IoE Scheme, Rs 300000

Institution of Eminence, University of Delhi, New Delhi, 2021, Faculty Research Programme (FRP) under the IoE Scheme, Rs 300000

Institution of Eminence, University of Delhi, New Delhi, 2021, Faculty Research Programme (FRP) under the IoE Scheme, Rs 300000

Seminars Organized

Prof. R S Kureel, Vice Chancellor of Mahatma Gandhi University of Horticulture and Forestry, Chhattisgarh Honorable member NEP committee, National Education Policy-2020: A New Vision for India's Higher Education System, National Education Policy-2020, 7 August 2021

H.E. Ahmed Al Banna, UAE Ambassador to India, Gender Equality and Women Empowerment, Gender Equality, 23 November 2021

Dr. Amaladoss Anburaj, Senior Scientist, Temasek Polytechnic, Singapore, Real Time PCR and Its Application in Covid-19 Diagnosis, COVID-19, 1 February 2022

Dr. Mathew Varghese, Renowned Orthopaedic Surgeon & Expert in Public Health St. Stephen's Hospital, Delhi, Understanding the Omicron, COVID-19, 10 January 2022

Prof. Rajnish Kumar Shukla, Vice-Chancellor Mahatma Gandhi International Hindi University, Azadi ke Bhule Bisre Nayak, Azadi Ka Amrit Mahotsav, 5 July 2021

Conferences Organized

2nd International Sanskrit Conference on 'Sanskrit Studies Across the World', 1 March 2022, NA

6th Annual International e-Conference of International Network of Soil Contamination Research- INSCR 2021 on 'Microbes in Sustainable Development' held on 15 November 2021, NA

Equinox, The Annual International Conference on the theme 'Sustainable Agriculture: Negotiating Tradition and Modernity', held on 12 August 2021, NA

International conference on 'Recent Trends in Drug Discovery and Development', 8 October 2021.

National Conference on "Realms of Plant diversity: Exploration with Novel Perspectives", on 24 August 2021.

Seminar/Conference Presentations

Dr. Manisha Saluja (Department of English): Oral Presentation on "Technology, Spatiality and Pandemic- Induced Isolation" in International Conference on 'Recent Trends in Interdisciplinary Studies', organised by IISS and Dera Natung Govt. College, Itanagar, held on 2021, December 26-27.

Dr. Shalini Lumb Talwar (Department of Physics): Oral Presentation on "Hydrogenic impurity in a distorted quantum disk: effects of hydrostatic pressure and temperature on the optical properties" in 5th International Aegean Symposium on 'Innovation Technologies & Engineering', organised by Aegean Conferences, Turkey, held on 2022, February 25-26.

Dr. Priti Mendiratta Arora (Department of Economics): Oral Presentation on Speculative Lending in Mortgage Loan Market: A Macroeconomic Analysis in *MIMANSA*: International Research Conference 2021, 'Innovative Strategies in Business Management and Technology in the Emerging Scenario', 2021 organised by Sri Balaji University, Pune (SBUP), held on 2021, December 08-09.

Dr. Lata Vodwal (Department of Chemistry): Oral Presentation on "The study of Molecular Interaction of Pesticides with Bovin beta-lactoglobulin Protein as a Potential pesticide Carrier" in International conference on 'Recent Advancement in Chemical Science: Health, Environment and Society', organised by Deshbandhu College, University of Delhi, held on 2022, April 08-09.

Dr. Rekha Kumari (Department of Sanskrit): Oral Presentation on “वैदिक परंपरा म” का लक्ष्मीय रचनाएँ” in ‘Second International Sanskrit Conference on Sanskrit Studies across the World’, organised by Department of Sanskrit, Maitreyi College, University of Delhi, Bharat; School of Indic Studies, Institute of Advanced Sciences, USA; Department of Sanskrit, RBSGGD College, Mau, UP, Bharat & Department of Sanskrit, SGGJMGD College, Palia Kalan, Lakhimpur Kheri, UP, Bharat, held on 2022, March 01-02.

Dr. Jyotsna (Department of Commerce): Oral Presentaion on “Economic transformation-embracing the change of intra regional trade practices: A study on India and Sri Lanka” in International conference, ‘Corporate and Economic transformation – Embracing the Change’, organised by Deen Dayal Upadhyaya College, University of Delhi, held on 2022, March 24-25.

Dr. Shweta Sankhwar (Department of Computer Science): Oral Presentation on “Network-Based Identification of Module Biomarker Associated with Hepatocellular Carcinoma” in 11th International Advanced Computing Conference, organised by Malta University and Benette University in Association of Springer, held during 2021, December 18-19.

Dr. Manju Bhardwaj (Department of Computer Science): Invited speaker in international conference, ‘The Future of Higher Education and Research Cooperation’, organised by German Academic Exchange Service (DAAD) held during 2021, October 18-22.

Dr. Renu Gupta, (Department of Zoology): Invited Speaker in the International e-conference on ‘Mitigating Environmental Issues by Sustainable Approaches (ICMCESA-2022)’ organized by Acharya Narendra Dev College from 2022, February 22-28 under the aegis of IQAC and DBT Star College Scheme.

National/International MoUs Signed

With Translational Health Science and Technology Institute, Faridabad; School of Indic Studies, Institute of Advanced Sciences, USA; National Institute of Immunology, New Delhi and Step Up Student, New Delhi

Other Inter-Institutional Collaboration

Ram Bachan Singh Govt. Girls Degree College, Mau, Uttar Pradesh; Madhyanchal University, Madhya Pradesh; Association for the Rights of Disabled Persons, New Delhi; Divyang Employees Welfare Association (DEWA), India ; Allied Health Care Council of India ; Dharamshala Cancer Foundation and Research Centre ; Save the Children & MASH Foundation; Special Olympic Bharat ; Fragrant Flowers Group of Disabled Women; Welfare and Research Foundation ; Global Alliance for the Rights of Older People, ICT Academy; The National Academy of Sciences India (NASI), Delhi; Manodarpan, an initiative of the Ministry of Education Govt. of India; Development, Welfare, and Research Foundation and International Network for Prevention of Elder Abuse (INPEA).

Student under Exchange Program (Inbound/Outbound)

Three months Online Skill Development Certificate Course on applications of digital Tools in Teaching and Learning Indian Languages (12-04-2021 to 31-07-2021) has 2437 Students.

Other Short-Term Certificate Courses have 51 Students

Placement Details

70
35%

Number of Companies visited for campus recruitment

93

Extension and Outreach Activities

Maitreyi College conducted several outreach events during the session of 2021-22. The Enabling Unit of Maitreyi College acts as a support system and guidance for differently-abled students and teachers alike. Last year the unit started its YouTube Channel by uploading more than 55 video lectures prepared by Enabling Unit with the support of experts in the concerned fields. These videos have reached more than 25000 persons across the globe. Enabling Unit in collaboration with Unnat Bharat Abhiyan and the Blind Relief Association, Delhi organized a National Webinar on ‘Understanding the Omicron’ on 10 January 2022. A National Workshop on ‘Nadi Ko Jano’ was also organised on 24 January 2022 in collaboration with Bharatiya Shikshan Mandal, Delhi



Prant. Enabling Unit/EOC renewed 'Writer & Reader Bank' for the Academic Session: 2021-22. The Health and Hygiene Committee in collaboration with Enabling Unit of Maitreyi College organised several National webinars round the year, addressing Health issues in collaboration with the like Cancer Prevention & Palliative Care by Dhramshila Cancer Foundation & Research Centre; Diabetes: Prevention & Treatment, Healthy Heart; Women & Health; Recognizing & Managing Physical and Emotional Pain; Healthy Digestive System; Know Your Kidneys.

The Eco club - Prakriti, Maitreyi College which aims at sensitizing people towards earth, nature, and life organised an awareness drive on 'The Impact of Pandemic on Ozone Recovery' on the occasion of World Ozone Day. Apart from this, a National Webinar titled 'Conservation of Biodiversity' was organised by Eco club-prakriti. NSS Unit of the college conducted several events during the session of 2021-22 in collaboration with various organizations to create awareness and disseminate knowledge. NSS volunteers also took part in the 'Clean Yamuna Campaign' organized by District Administration (DA), Delhi and in the NSS Camp organized for the Republic Day parade at Rajpath, New Delhi. An introductory workshop of the Youth Campaigners Program was organised in collaboration with Save the Children & MASH Foundation on 30 January 2022, in the college premises. Enactus Maitreyi works towards providing the needy beneficiaries living in poverty or underprivileged with the required materials for which they raise funds by setting up stalls to sell their products and sponsorship from various means. The products sold were eco-friendly scented candles

produced under project Misbah, pouches produced under Project Samaya and diaries produced under Project Swadhin. A Cloth Donation Drive (under Project Swarnim), along with various other webinars were also organized.

Library Development

The college library acquired 339 books during 2021-2022. The total collection of the library has been augmented to 99646 print books. It subscribes to 53 journals, including popular magazines and a collection of 23 newspapers (15 titles) in the library. The library subscribes to the N-LIST consortium, which covers 6000+ e-journals and 1,99,500 e-books under N-list 6,00,000 e-books through NDJ. The college library continues to be a member of DELNET (Developing Library Network), which specially caters to our needs through Document Delivery Service. The library has created its institutional repository using DSpace software which is accessible in the library only.

Library users can access the previous and current year syllabus/question papers on the college website. This year our library also acquired a Computer Kiosk to facilitate accessing online public access catalogs by students.

Faculty Strength

159

Financial Allocation and Utilization

(a.) Rs. 58,90,00,000/-

(b.) Rs. 53,95,25,468/-

MATA SUNDRI COLLEGE FOR WOMEN



Brief History

The college was founded on 17 July 1967. Initially, it functioned from Mata Sundri Gurdwara Complex and there were 407 students on its rolls pursuing the B.A. (Pass) course. Mrs S. M. Singh was appointed as the first Principal on 13 July 1967. Though Jathedar Santokh Singh Ji was nominated as the first Chairman of the College Governing Body on 12 July of the same year, after completing all the formalities, he handed over the reins of governance to S. Hardit Singh on 13 July 1967. Four faculty members from the discipline of English and two from Political Science joined the college on the same date, bringing the number of faculty members to 21 in the first year itself. Four new courses i.e., B.A.(Hons.) in Punjabi, Hindi, Sanskrit and History were introduced in 1968. B.A.(Hons.) in Political Science and Philosophy were added in 1969. Post Graduation in Punjabi was introduced in 1976 and a master's in Sanskrit began in 1978. The year 1978 also saw the addition of B.A. (Hons.) in Mathematics and B.Com. (Pass) to the steadily increasing number of courses. B.A. (Hons.) in English was introduced in 1980 and B.A. (Hons.) in Psychology and B.Com. (Hons.) in 1985. Two courses Masters in Political Science in 1993 and Hindi in 1994 were introduced.

Academic exposure was also extended to students who could not enroll in regular college courses through provisions of Non-college Women Educational Board (NCWEB) classes on the college campus from 1983 onwards. In 2005 the college started Vocational Courses in Tourism & Travel Management, Textile Designing and Computer Applications under its Vocational Center. Later three foreign language Certificate courses approved by the University of Delhi in French, German and Spanish were also initiated in 2008. The college's first professional degree programme in Bachelors of Elementary Education (B.El.Ed.) was introduced in

2007. Department of Environment Studies was established in 2014. Departments of Statistics and Computer Science were also added.

Major Activities and Achievements

A one-week interdisciplinary FDP titled "Indian Knowledge System: Concerns, Approaches and Applications in NEP 2020" was organised from 14 to 19 September 2021 by the NEP 2020 Implementation Committee, Department of Hindi and Modern Indian Languages, Mahatma

Gandhi Kashi Vidyapith, Varanasi, and IQAC Mata Sundri College for Women in collaboration with TLC, Harisingh Gour University, Sagar. An online interdisciplinary FDP "Madhyakalin Sahitya, Samaj aur Sanskriti" was organised from 12 to 18 November 2021 by the IQAC and

Department of Hindi, Mata Sundri College, in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi. Six online 30-hour Short-term 2 Credit courses on various topics were organised in College. The MBA Cell, Motivation to Masters Cell, the Civil Services Society and the CA/CS Cell were formed with the aim of guiding students towards career progression. These Cells remained active throughout the year and organized talks, lectures and workshops for students.

Honours/Distinctions

Prof. Harpreet Kaur, Principal, Mata Sundri College for Women received the "Commonwealth Innovation Forum and Awards (CIFA) 2021 for Leadership in Women Education" award on 1 June 2021. It was an initiative of Commonwealth Thought Leaders.

She was also honoured with the Appreciation Award for "Valuable Contribution in Social Field and Excellent Service" at WJI Digital Media Award -2021



by the Working Journalists of India (WJI) on 25 August 2021.

Was awarded “The Great Indian Teacher’s Award - GITA 2021” at India International Centre on 4 September 2021. Also “The Great Indian Women Award -GIWA 21” by Honourable Governor of Uttarakhand, Baby Rani Maurya at India International Centre on 4 September 2021. Appreciation for valuable service in assisting Delhi Police initiatives related to Women's Safety, COVID-19, social issues etc. It was awarded by the Central District Delhi Police on International Volunteers Day, 5 December 2021. She is also the recipient of 8th Stree Gaurav Award 2021 at Vigyan Bhawan, Delhi by Smt. Sunita Duggal, Member of Parliament, H.H. Rashtriya Sant Pujya Shri Balyogi Umesh Nath Maharaj Ji and H.H. Pujya Shri Sudhanshu Ji Maharaj Ji organized by Indian Brave Hearts, New Delhi on 24 December 2021. Was also presented with the Samman Patar for promotion of Punjabi language, literature and culture by Punjabi Pracharni Sabha and Punjabi Lok Manch, Delhi on International Mother Language Day on 21 February 2022.

Students with Distinctions

Muskan Tyagi	Department of Elementary Education, IV Year (University Roll No 1729030)
Manya Tyagi	(BCP/19/307)
Ms. Dipika Bisht	(STA/19/1) (POL /19/196)
Ms. Anshu	
Babita	(BAP/19/538)

Publications

Harpreet Kaur. (2021). "Saka Gurdwara Sri Nankana Sahib", Studies in Sikhism and Comparative Religion, XLV (1), 59-67.

Harpreet Kaur & Harleen Kaur. (2021). "Developing Scale for Social Implications of COVID- 19: Special reference to community engagement in India". PIMT Journal of Research, 14(1), 27- 31.

Dr. Renu Arora. (2021). "Scaling Bad Debts in Indian Public Sector Banks: A Multivariate Analysis". International Journal of Business Continuity & Risk Management, 11(4), 324-342.

Ms. Priya Sawaliya. (2021). "Financial Constraints, Stock Returns and R&D in Indian Stock Market". Vision, 25(2), 192-200.

Dr. Ishpreet Viridi. (2021). "Impact of COVID-19 on Consumer Behaviour: What has Changed". IOSR Journal of Business and Management, 23(NA), 61-67.

Dr. Gurvinder Kaur. (2021). "Predictors of Organisational Commitment: A Review of Empirical Studies". International Research Journal of Management Science & Technology, 13(1), 92-94.

Dr. Megha Gupta, (2022). "Analysis of the Relation Between Internet Usage and Depression with Machine Learning". International Journal of Advanced Trends in Computer Science and Engineering, 11(1), 14-19.

Dr. Jasmeet Kaur. (2021). "Looking at Inclusion in NEP 2020. setting Apart With Technology". Educreator Research Journal, VIII(VI), 75-80.

Prof. Madhuri Sukhija. (2021). "Breaking the Glass Ceiling: Navigating the Space for Gender Diversity in the Composition of the Indian judiciary". Army Institute of Law (AIL) Journal, 16, 163-178.

Dr. Moitri Dey. (2021). "Role of School Management Committees in Implementing Right to Education". International Journal of All Research Education and Scientific Methods (IJARESM), 9(6), 863-870.

Seminars Organized

Dr. Vandana Shiva, environmentalist and eco-feminist, "Eco-Feminism", Eco-Feminism, on 12 December 2021

Mr. Ashish Rose, Senior Programme Officer of WWF-India, "Plastic Pollution in the Marine Environment", Environmental Pollution, 19 July 2021

Sh. Jaideep Tandan, Lawyer, "Prevention of Online Sexual Harassment" on Sexual Harassment, 24 January 2022



Prof. Vasanthi Raman, Chairperson, CWDS, 'Empowering Women Through Transformative Education', Women Empowerment, 4 March 2022

Dr. Maya John, Assistant Prof., JMC, DU, 'Expression Beyond the Spectrum: Celebrating Inclusivity-Gender Identity and Alternative Sexuality.', Alternative Sexuality, 4 March 2022

Conferences Organized

The Department of Punjabi hosted a 3-day international conference titled "75 years of tragic partition of Hindustan and celebrating humanist Kulwant Singh Virk on his Birth Centenary" from 26 to 28 November 2021.

The Department of Environmental Studies organized the "World Women Conference-IV", in collaboration with the Institute of Economic Development and Social Researches, Turkey from 8 to 9 March 2022.

The Department of Environmental Studies organized the "6th Asia Pacific International Modern Sciences Congress", in collaboration with the Institute of Economic Development and Social Researches, Turkey on 15 to 16 December 2021.

Seminar/Conference Presentations

Prof. Harpreet Kaur delivered a lecture on "Everlasting Significance of Life and Teachings of Guru Nanak", at a conference on "Revisiting the Life and Teachings of Guru Nanak: A Philosophical Perspective", organized by Guru Ram Dass College of Education, IP University, on 2021, November 13.

Dr. Uzma Nadeem & Dr. Kamlesh Kaur presented a paper on "Green-Business: A Way Towards Sustainable Development" at the "6th Asia Pacific International Modern Sciences Congress", organized by Mata Sundri College for Women in collaboration with the Institute of Economic Development and Social Researches, Turkey, held on 2021, December 15-16 (via Zoom).

Dr. Harleen Kaur and J. Arora presented a paper, "Gender Equality on thin ice at the wake of COVID-19 cataclysm in India" at the World Women Conference -IV organised by Mata Sundri College for Women, University of Delhi held from 2022, March 08-09.

Ms Priya Sawaliya presented a paper, "Idiosyncratic Volatility and Security Return in Indian Security Market" at the 6th Biennial International Conference organized by Sri Guru Gobind Singh College of Commerce held on 2022, March 10-11.

Dr. Ishpreet Virdi presented a research paper titled "Impact of Deception on Consumer Behaviour in E-Commerce Industry with Respect to Fashion and Apparel" at the 2nd Universal Conference on Multidisciplinary Research & Innovation organized by DHS Foundation, New Delhi, India, on 2021, July 24-25.

Dr. Gurvinder Kaur presented a paper "Voice and Neglect: Empirical Study of Commitments as Predictors and Well-being as Mediator" at ISDSI-Global Conference 2021 "Leading Business in a Fluid world" hosted by IIM Nagpur from 2021, December 27-30.

Ms. Jasmeet Kaur presented a paper titled, "Gender Diversity in Corporate Boardrooms: Open Issues and Trends" at the World Women Conference held from 2022, March 08-09 which was organised by Mata Sundri College for Women, University of Delhi.

Dr. Suprita Jha presented a paper titled, "Portrayal of Women in Contemporary Indian Cinema: An Emblem of Endurance" at World Women Conference IV organized by Mata Sundri College for Women, University of Delhi, from 8 to 9 2022, March 08-09.

Ms. Shivani Verma presented a paper titled, "Work-Life- Balance of Women in IT Sector" at World Women Conference IV organized by Mata Sundri College for Women, University of Delhi, from 2022, March 08-09.

Dr. Moitri Dey presented a paper "Efficacy of MGNREGS in achieving SDGs" at the International Seminar under the UGC-SAP DR. S-I Programme on "Democracy and Public Policy in India: Choices and Outcomes" organized by the Department of Political Science, Jamia Millia Islamia held on 2020, February 26-27.

National/International MoUs Signed

17

Placement Details

38

Number of Companies visited for campus recruitment

17

Extension and Outreach Activities

NSS, NCC, and Enactus carried out various extension and outreach programmes through the year.

Library Development

1958 books were added this academic year. The college subscribes to 40 journals and magazines and 6 newspapers.

Faculty Strength

Permanent: 76

Adhoc: 90

Financial Allocation and Utilization

(a.) Rs. 52,55,00,000/-

(b.) Rs. 50,67,81,706/-

MAULANA AZAD INSTITUTE OF DENTAL SCIENCES



Brief History

In 1940, Col. Curickshank of the Indian Medical Service (IMS), a British national, was appointed Medical Superintendent of Irwin Hospital and Chief Medical Officer of New Delhi. The medical and dental institute derived its name from Maulana Abul Kalam Azad who was the first Union Minister of education and scientific research of independent India. The dental wing of Maulana Azad Medical College, as this institute was called originally was served by honorary dental surgeons Dr. P.P. Sawhney and Dr. P.K. Khurana. He was succeeded by Dr. A. N. Srivastava Oral and Maxillofacial Surgeon, who headed the Dental Wing from 1984 till 1989. Dr. N. C. Sangal, another Oral and Maxillofacial Surgeon headed the Dental Wing from 1991 till 1995 when Dr. Mahesh Verma took over the reins. In 2003, the dental wing was separated from MAMC as Maulana Azad Dental College and Dr. Mahesh Verma became the first

principal of the college in 2002. The institute has grown in infrastructure from 20 dental chairs in 1983 to more than 250 dental chairs in 2010. Our excellent academic record enabled us to seek increase in BDS seats from 20 to 40 and introduction of MDS courses in the year 2007.

Major Activities and Achievements

The year saw challenges faced due to Delta wave of COVID and some relaxation periods. MAIDS continued its dental services along with prescreening and sampling for Covid-19. Vaccination center was set up at MAIDS under GNCT of Delhi. Protocols were followed as per the laid SOP's in the previous year. The institute was Ranked 4th in number by NIRF among all the dental colleges in India. The independent surveys of Magazines Outlook, India Today and The Week Dental Colleges Survey-2021 have ranked MAIDS the best dental college in India at



position no.1. The institute was awarded by FICCI for best outreach services.

Honours/Distinctions

Dr. Sangeeta Talwar was appointed as Member of Dental Advisory Group of NABH by NABH in 2021.

Dr. Sangeeta Talwar was appointed as Alternate member for biological & clinical evaluation of medical devices& immune-biologic diagnostic kits section committee MHD 19 by Bureau of Indian standards in 2021.

Dr. Sujata Mohanty was awarded Fellowship award by Craniofacial research foundation academy on 25 July 2021.

Dr. Gyanendra Kumar was awarded TC White Observership Award by Royal College of Physician and Surgeon, Glasgow on 30 June 2021.

Dr. Gyanendra Kumar was awarded Fellowship Award by National Seoul University and Dental Hospital, South Korea on 3 May 2021.

Dr. J. Augustine was awarded Diploma in Forensic Human Identification (Dip FHID) by Academy of Forensic Medical Sciences, London, U. K in 2021.

Students with Distinctions

Name of Students	Class
Khushal Makhija	First Class
Akshita Mehta	First Class
Urvi Bhatia	First Class
Komal Yadav	First Class
Kanika Singhal	First Class

Aggarwal, A., Nawal, R.R., Yadav, S., Talwar, S., Kunnoth, S., & Mahajan, P. (August 2021). Comparative evaluation of dentinal microcrack formation before and after root canal preparation using rotary, reciprocating, and adaptive instruments at different working lengths. *Endodontics*, 47(8), 1314-1320.

Bharti, A, Urs, A. B., & Kumar P. (Feb 2021). Significance of HIF-1a expression and LOXL-2 localization in progression of oral squamous cell

carcinoma. *Asian Pacific. Cancer Prevention*, 22(2), 341-347.

Ganesh, G., & Tripathi. (July 2021). Effect of fixed functional appliances on pharyngeal airway dimensions in skeletal class II individuals A scoping review. *Oral Biology and Craniofacial Research*, 11(4), 511-523.

Garg A Maheshwari, R, & Urs, A. B. . (Nov 2021). Association of Oral melanosis with soft tissue pathologies A Hospital based observational study. *Clinical and diagnostic research*, 1(1), 1.

Hedge, M, N., Parmar, G, Logani, A, Hedge, N. D, Ballal, S., Krithikadatta, J Nawal, R, Amalvathy, K., Devadiaga, D & Bhat, R. (Sept 2021). Dental practice management during COVID-19 times- Now and beyond. *Clinical Practice*, 75(9), 14251.

Malhotra S, Mohanty, V R, Balappanavar, A Y & Khanna A. (Jan 2022). Effectiveness of two tobacco cessation methods among TB patients. *Tuberculosis and Lung Disease*, 26(1), 12-17.

Mohanty, S. Dabas, J Verma, A Gupta, S. Urs, A. B., & Hemavathy S. (Sept 2011). Surgical management of the odontogenic Keratocyst. A twenty-year experience. *Oral and Maxillofacial Surgery*, 50(9), 1168-1176.

Rehman, F., Kumar G, & Goswami, M. (Nov 2021). Knowledge, attitude and practice regarding the use of dental operating microscope in pediatric dentistry in India, An online survey. *Oral Biology and Craniofacial Research*, 11(1), 22-25.

Singh N, Tripathi, T, Mohanty, S, Rai, P & Bhutiani, N. (April 2021). Closure of large alveolar defect by maxillary alveolar distraction using a vector-controlled distractor appliance in cleft patients: A pilot study. *Oral Biology and Craniofacial Research*, 11(2), 277-283.

Verma, A. R, & Goswami. (Jan 2021). Knowledge, attitude, and practices of tobacco vendors towards selling tobacco products to young children and adolescents in central Delhi. *Clinical Pediatric Dentistry*, 14(1), 97-99.



Journals

Dr. Ritu Arora, Dr. Lalit Maini, Dr. Sangeeta Talwar. (2022). MAMC JMS. Quarterly,8 (May- Aug 2022), 92

Research Projects

Council of Scientific & Industrial Research, 2021-24, Designing & manufacture of advanced indigenous dental implants under the New Millennium Indian technology leadership initiative (NMITLI), 120

Department of Sciences and Technology, 2018-21, Design and Development of Indigenous Instrument Retrieval Equipment For Removal Of Broken/ Separated Files During Endodontic Therapy, 86.2

Department of Sciences and Technology, 2019-21, The Impact of Endodontic Microscope on the Outcome of Root Canal Treatment on Deciduous Molars., 39

Department of Health Research, 2018-21, Evaluation of Dimensional Changes in The Alveolar Ridge Following Tooth Extraction with or Without Using Indigenously Prepared Decalcified Freeze-Dried Bone Allograft – A Clinical Stud, 30

Department of Health Research, 2018-21, An evaluation of psychosocial, morphological and functional benefits of Nasoalveolar moulding in infants born with Cleft Lip and Palate., 51.86

Patents Filed/Granted

7

Number and title of national patents

1) Development of Dental implants 2) A pit and fissure sealant composition 3) Non contact type ultrasound approach to detect separated instrument in the tooth during root canal therapy. 4) Dental care tips for hearing impaired -Indian sign language 5) Cerebral palsy and oral health.

Number and title of international patents – 1) Development of Dental implants.

Number and title of collaborative Patents-Industry – 1) Development of Dental implants (with IIT, Delhi).

Seminars Organized

Dr. Jitendra Ariga, Director, School Oral Health Program, Public Health Dentistry, 19 June 2021

Dr. Pratima Murthy, Director, Technological Intervention in tobacco cessation India _ Evidence to practice and road ahead, Public Health Dentistry, on 31 May 2021

Dr. Anita Spadigam, Head & Prof., Contemporary issues in Oral Pathology, Oral Pathology, 29 October 2021

Dr. Nita Khuranna, Prof., CDE and workshop on Diagnostic challenges in Maxillofacial pathology, Oral Pathology, 18 December 2021

Department of Sciences & Techonology, IIT (Delhi), Techtalk Dentistry- Platform building for Dental Innovation Webinar, Department of Sciences & Technology, 22 July 2021

Seminar/Conference Presentations

Dr. Sangeeta Talwar delivered a Guest Lecture on “Why now is the best time for Dentistry/Dental Professionals in India?” at Panel Discussion in IDA during Dr. R. Ahmed Centenary Celebration on Dental Education on 2021, April 18.

Dr. Sangeeta presented a Paper on “Microcomputed tomographic evaluation of dentin loss upon endodontic separated instrument retrieval using three recently practiced techniques- An experimental study” at 12th IFEA World Endodontic Conference 2021 and 29th National Congress of IES in association with Dental Council of India and IACDE on July 2021, July 31.

Tulika Tripathi delivered a lecture on “Modification of Twin block appliance – A Panacea for developing Class III malocclusion” during 55th IOC at IOS on 2021, September 24.

Dr. Aadithya B. Urs delivered a Guest Lecture on “Microbiological and Pathological aspects of Mucormycosis” during webinar in MAIDS on 2021, June 17.

Dr. Mridula Goswami delivered a Guest Lecture on “Assessment of Oral health Knowledge, Attitude, Practices and treatment needs of institutionalized orphan children” during 28th IAPD Congress on 2021, June 09.

National/International MoUs Signed

With Indian /Foreign Universities: Foreign universities 1) Henry M. Goldman School of Dental Medicine, Boston University, USA.

Other Inter-Institutional Collaboration

With Council of Scientific & Industrial Research, Indian Council of Medical Research, IIT Delhi, Department of Science & Technology and International Union Against Tuberculosis and Lung Disease (South East Asia)

Placement Details

62% of UG students have got post graduate seats. 23% are in private practice. 15% are working as Junior residents in different hospitals. 18 (100%) placement for post graduates passing out from institute.

Number of Companies visited for campus recruitment

1

Extension and Outreach Activities

Nine Dental Camps treated 809 patients. 11 Child Protection Unit visits that screened 130 patients. Treatment done for 507. Twenty-four child development center visits that screened 119

children. 1055 tele dentistry calls and feedback of 676 taken.

Mobile Dental Clinic Projects had a total of 25478 patients. 62 school visits. 5501 students screened. Treatment of 425 done. Amma projects had one visit and Patients

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 computers. 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: 31

Adhoc: 26

Financial Allocation and Utilization

(a.) Rs. 65,04,00,000

(b.) Rs. 49,24,00,000

MIRANDA HOUSE



Brief History

Miranda House (MH) started its existence as a hostel for women students in 1946 from an old colonial bungalow situated at 7, Probyn Road (now renamed Chhatra Marg). The College eventually started in 1948, under the stewardship of Sir Maurice Gwyer, Vice Chancellor of the University of Delhi (1938–1950). Ms. Veda Thakurdas was appointed the first

principal. 122 young women were admitted into several departments: English, Economics, Hindi, History, Philosophy, Mathematics, Sanskrit, Physics and Zoology. The college pioneered basic science education for women. Today, the college has eighteen departments that span humanities, social and natural sciences, 200 faculty members and close to 5000 students.



The history of Miranda House chronicles the history of women's education as well as that of the women's movement in post Independence India. The foundation stone for what is now the Hostel building was laid by Edwina Mountbatten on 7 March 1948. MH has created a space for quality and holistic education in Humanities, Social Sciences and basic Sciences that is inclusive and dedicated to turning out sensitised, capable students who aspire to be leaders and responsible citizens of the country. It has been awarded All India Rank One amongst colleges under the National Institutional Ranking Framework (NIRF) for six consecutive years from 2017 to 2022. It has an Institutional Grade of A+ from NAAC, with a CGPA of 3.61 and granted the Star College status by the Department of Biotechnology.

Major Activities and Achievements

Miranda House was awarded All India Rank One amongst colleges under the National Institutional Ranking Framework (NIRF) 2022 for the sixth consecutive year. It was also ranked amongst the top five colleges in the Science Stream and Arts & Humanities Stream in the India Today Best College Survey 2022. 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. The college received the Zee Media Education Excellence Award 2021 – Excellence in the field of Education.

Various events organized during this year: International Conference on "Science and Society" in light of National Education Policy (NEP) 2020 funded by CSIR-INDIA and Indian Council of Social Science Research; Faculty Development programme on Concept of Indian Language in National Education Policy (NEP) 2020 under the aegis of Mahatma Hansraj Faculty Development Centre; Patent drafting workshop for Women Scientists of 12th Batch jointly organized by Patent Facilitating Centre in collaboration with TIFAC and DST, Government of India; Five-days Face to Face Training program on Understanding the Vulnerability and Risk associated with Urban Areas organized by NIDM, Government of India in collaboration with University of Delhi and Department of Environmental Studies; IPR awareness/training program under the special mission called "National Intellectual Property Awareness Mission (NIPAM)" The College won six

prestigious cups at the Flower Show which include the Platinum Jubilee Cup, The Department of Sanskrit Cup, The Devi Prasad Sarin Cup, The Kirorimal College Cup, The Department of Hindi Cup, The Ved Prakash Cup.

Honours/Distinctions

The Principal, Prof. Bijayalaxmi Nanda and Dr. Hena Singh were felicitated by the Ministry of External Affairs on the occasion of International Women's Day, March, 2021. Dr. Hena Singh received Dr.S Radhakrishnan Memorial Award for exemplary working, Teaching and Learning in September 2021. Dr. Skylab Sahu awarded Barbo Kelin Fellowship 2022- 2023 from the Swedish Collegium for Advanced Study. Dr. Senganglu Thaimai is appointed by invitation as Research Fellow at Highland Institute of Research Fellowship, Kohima, February 2022. Dr. Senganglu Thaimai, selected for the Nehru-Fulbright Post Doctoral Fellowship 2022-23 on 8 February 2022, fellowship to begin from 1 September, 2022 to 31 August, 2023 in University of Vermont, Vermont, USA.

Students with Distinctions

S.No.	Name of Students	Class
1	Meenaks hi	B.Sc. (Hons.) Mathematics, Semester VI
2	Rubal	B.Sc.(Hons.)Chemistry, Semester VI
3	Harshita Yadav	B.Sc. Physical Sciences, Semester VI
4	Isheka Aggarwal	B.A. (Hons.) Economics, Semester VI
5	Vidhushi Mangla	B.A. (Hons.) Economics, Semester VI

Publication

Gupta, Y., Goicoechea S., Pearce C. M., Mathur R., Romero J.G., Kwofie S. K., Weyenberg M.C., Daravath B., Sharma N., Poonam, Akala, H.M, Kanzok S.M., Durvasula R., Rathi B., Kempaiah P. (2022). The emerging paradigm of calcium homeostasis as a new therapeutic target for protozoan parasites. *Medicinal Research Reviews*, 42(1), 56- 82.

Kumar S., Sharma P. P., Upadhyay C., Kempaiah P., and Rathi B. (2021). Multi-targeting approach for nsp3, nsp9, nsp12 and nsp15 proteins of SARS- CoV-2 by Diosmin as illustrated by molecular docking and molecular dynamics simulation methodologies. *Methods*, 195(1), 44-56.

Kumar S., Gupta, Y., Zak S. E., Upadhyay C., Sharma N., Herbert A. S., Durvasula R., Potemkin V., Dye J. M., Poonam, Prakash K., Rathi B. (2021). A novel compound active against SARS-CoV-2 targeting uridylylate-specific endoribonuclease (NendoU/NSP15): In silico and in vitro investigations. *RSC Medicinal Chemistry*, 12(10), 1757-1764.

Pathak M., Singhal R. (2022). Therapeutic and diagnostic applications of nanocomposites in the treatment Alzheimer's disease studies. *Biointerface Research in Applied Chemistry*, 12(1), 940-960.

Rahman, Jahan A., Sharma D., Kumar D., Pathak M., Singh A., Kumar V., Chawla R. and Ojha H. (2021). Spectroscopic and molecular modelling study of binding mechanism of bovine serum albumin with phosmet. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 244(1), 118803.

Rahman, Jahan A., Kaur L., Pathak M., Singh A., Verma P., Singhal R., Kumar V., and Ojha H. (2021). Spectroscopic studies of binding interactions of 2-chloroethylphenyl sulphide with bovine serum albumin. *Journal of Molecular Liquids*, 340(1), 117144.

Sharma S. and Bhatia V. (2021). Phytochemicals for drug discovery in Alzheimer's disease: In silico advances. *Current Pharmaceutical Design*, 27(25), 2848-2860.

Sinha S., Kumar S., Arora S. K., Sharma A., Tomar M., Wu H.C. and Gupta, V. (2021). Enhanced interlayer coupling and efficient photo detection response of in-situ grown MoS₂-WS₂ van der Waals

heterostructures. *Journal of Applied Physics*, 129(15), 155304.

Tahir A., Jindal K., Tomar M., Jha P.K. and Gupta, V. (2021). Role of charge states and dopant site in governing electronic properties of Cr doped BiFeO₃. *Materials Chemistry and Physics*, 263(1), 124438.

Yadav G., Gupta, V. and Tomar M. (2022). Double Schottky metal- semiconductor-metal based GaN photo detectors with improved response using laser MBE technique. *Journal of Materials Research*, 37(2), 457-469.

Research Projects

Development of process and evaluation of electron suppression coating on the grids used in TWTs, DRDO, 2021-2022, Rs. 23.58 Lakhs

Establishing the Northeastern Regional Research and Resource Centre at Miranda House, North Eastern Council, Government of India, 2022-2025, Rs. 275.40 lakhs

Fabrication of Lamb Wave Devices on SiO₂/Si Membrane for strategic applications, DRDO, 2019-2022, Rs. 428.03 Lakhs

Realization of MEMS based Dual Energy Harvester using ferroelectric and ferromagnetic thin film layered structures, DST, 2019-2022, Rs. 51.48 Lakhs

Rapid diagnosis of pulmonary tuberculosis based on detection of mycobacterial antigens within serum/urine samples by immuno-PCR assays, ICMR, 2022-2023, Rs 36.3 Lakhs

Patents Filed/Granted

National – 06 International – 02

US Patent: Calxinin Compositions and Method of Treating Viral Infections.

USA Patent: Multi-States Nonvolatile Opto-Ferroelectric Memory Material and Process for preparing the same thereof.

Indian Patent: A novel cost-effective method of fabrication of inverted Light Emitting Diodes.

Indian Patent: A novel highly sensitive and reliable LRSPR biosensor for detecting uric acid and fabrication thereof.

Indian Patent: A sensitive, selective and rapid fuel gas sensor.



Indian Patent: Electric field assisted low power consuming conducto-metric gas sensor.

Indian Patent: Electrochemical based genosensor for the detection of *Puccinia striiformis f. tritici*, causal agent of yellow rust in wheat.

Indian Patent: SPR based DNA bio sensor for the detection of *Puccinia striiformis f. tritici*, causal agent of yellow rust in wheat.

Seminars Organized

“Basics of Metal and Modern Medicine”, Dr. Anil Kumar Mishra, Director, Institute of Nuclear Medicine and Allied Sciences, DRDO, 29 March 2022.

“Emergence of Mahajanapadas and Urbanisation in India”, Mr. Vedveer Arya, Joint Secretary (R&D), DRDO, Ministry of Defence, 04 February 2022

“Environmental Conservation: The Contemporary Realities “, Mr. Kunal Satyarthi, Joint Secretary (Advisor), National Disaster Management Authority, Ministry of Home Affairs, Govt. of India, 19 January 2022.

“MEMS Technology for miniaturized sensors and impact of residual stress”, Dr. Shankar Dutta, Scientist F, MEMS Division, Solid State Physics Laboratory, DRDO, 22 July 2021

“Understanding Capitalism”, Dr. Nicola Smith, Senior Lecturer of Political Science and International Relations in the University of Birmingham, UK, Author Speak Series Seminar, 13 September 2021

Conferences Organized

“Global Women’s Breakfast”, IUPAC, 16 February 2022, Department of Chemistry, Miranda House

“Science and Society”, 23 February 2022, CSIR-INDIA and Indian Council of Social Science Research

“Saras Sanskrit Vyakaran Aur Sambhashan Kaushal”, 15 July 2021, Department of Sanskrit, Miranda House

“NAAC Accreditation: A Changed Perspective”, 01 July 2021, IQAC Cluster India

“Understanding the Vulnerability and Risk associated with Urban Areas”, 23 February 2021, National Institute of Disaster Management (NIDM), Government of India

Seminar/Conference Presentations

Dr. Anindita Sarkar presented paper on ‘Smart Urban Water Infrastructure Beyond the Network: Comparative Cases of Water ATMs in Nairobi and Delhi’, 6th International Conference on Urban E-Planning, Institute of Geography and Spatial Planning, University of Lisbon, Portugal & International Journal of E-Planning Research, Lisbon, Portugal, 2022, April 07-12.

Ms. Ashu Thereja Malhotra presented Paper titled Exploring Reflective Practices for teaching and learning: A Study of B.El.Ed. Pre-Service Teachers in online Annual Research Meet at HBCSE, TIFR from 2021, September 23-25.

Prof. Bijaya laxmi Nanda was panelist and presented paper on “Contribution of HEIs in achieving gender equality and empower all women and girls” North Zone Annual Vice Chancellors’ Meet on the theme Realising SDGs through HEIs by Association of Indian Universities on 2021, November 26.

Prof. Bijayalaxmi Nanda presented paper titled “Global and State Discourses regarding Gender Discrimination: The case study of Gender biased Sex Selection” in the 8th Refresher Course in Global Studies (IDC): International Relations and World Politics, JNU on 2021, November 26.

Prof. Bijayalaxmi Nanda presented paper on theme “Deconstructing Caste and Gender: Reinterpreting Indic History” organized by Department of Political Science, School of Social Sciences and Humanities, Deen Dayal Upadhyaya College, University of Delhi on 2021, November 16.

Dr. Bharati Jagannathan presented paper on “An Attempt at Gendering of Pilgrimage”, in 26th European Conference on South Asian Studies, 2020, July 26-29, Vienna-Online.

Dr. Kalawati Saini presented present paper “Degradation of Dyes by using Innovative Photocatalytic Reactor” International conference Nanotechnology Era, Organized by Amity University, Noida, 2021, June 07-11.

Prof. Monika Tomar presented paper on “Exploring the capabilities of wide bandgap heterostructures and quantum wells for short wavelength photonic devices” at "International Symposium on



Semiconductor Materials and Devices”, at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, 2020, November 02.

Dr. Rekha Kumari presented on “Structural changes in Tna A, Gad B and Tdc genes of human gut bacteria lead to variations in neurotransmitter levels during depression” at the INSCR International Conference University of Delhi, India, 2021, November 15-18.

Dr. Skylab Sahu, presented a paper titled ‘Impact of Covid-19 Pandemic on Domestic Help Workers in Delhi’, in the seminar COVID-19 in India & Sustainable Development Goals, Challenges, Responses & Way forward 2022, February 18-19, organised by ASISS in collaboration with ICSSR.

National/International MoUs Signed

Institute of Nuclear Medicine and Allied Science
Technology Transfer Agreement with M/s Optiregion
Dakshina Foundation
Government Girls College, Ajmer

Other Inter-Institutional Collaboration

Miranda House has linkages with Avast network of academic institutions, social organisations; corporate entities and eminent citizens at large. University of Birmingham, UK; University of York; University of Guelph with whom the college has collaborated.

Student under Exchange Program (Inbound/Outbound)

The Indo-Dutch Collaborative Program has been a unique exchange initiative between Miranda House, Sri Ram College of Commerce with Utrecht Business School, Hogeschool Utrecht University of Applied Sciences, Utrecht, since 2008. This year the 14th Indo-Dutch collaboration program attended by eight students and one faculty member from our college with full enthusiasm and a week full of learning, exchanging cultural ideas and adapting to new environments. Students were provided with an opportunity for an international, inter-cultural interaction on an academic platform. It was a mix of lectures from academics as well as industry experts. The intensive international encounter of students and staff lead to the increase of international competencies for those who have not spent a longer period abroad and reinforcing the relations between both the universities.

Placement Details

52

Number of Companies visited for campus recruitment

169

Extension and Outreach Activities

Miranda House encourages all students to participate in extension work, community engagement and outreach.

Centre for Environmental Studies and Disaster Management (CESDM) was instituted in November 2021 as a centre for learning and research. The Centre had been actively engaged with different organisations i.e., Department of Environmental Studies, University of Delhi (DES, DU), National Institute of Disaster Management, MoH, Govt. of India (NIDM), and National Disaster Response Force, Gol (NDRF), Intellectual Property Rights, Govt. of India (IPR) for its various events.

LAKSHITA, THE ENABLING UNIT: A three days programme on World Braille Day including a talk on ‘Representation of Disability in Literature’ and a creative writing workshop; workshop on Sugamya Pustakalaya & Bookshare.

NCC: Cleanliness Drive under “Puneet Sagar Abhiyan”; Educational Trip to IMA, Dehradun; NISCHAY’22, annual fest of MHNCC COY was organized with Brigadier Anupam Sharma Ms Santosh Yadav, first woman in the world to climb the Mount Everest twice. CPL Manya M. Kumar was awarded as the All-India Best Cadet, SW (Army Wing) and received a medal and Prime Minister’s Baton on 28 January 2021.

NSS: On the occasion of Breast Cancer Day, an international symposium on Breast Cancer Awareness was organized with the aim of spreading the immense knowledge on breast cancer among the public. An initiative of nutri-garden plantation was also started by the volunteers under Poshan Abhiyan. A week-long initiative, Swachta Abhiyan, with the objective of spreading the importance of cleanliness among the people and this event succeeded in encouraging large number of people to maintain cleanliness in their surroundings.

SPORTS: A Rediscovery towards fitness: The department organized a 3 days fitness workshop. Organized a Certificate course in Foundation of Yog. An ‘Aerobics Online Workshop’ entitled “Step Up-Towards Fun Filled Fitness Hours” was conducted, aimed at developing fitness through Aerobics.



PLACEMENT CELL: The Placement Cell, Miranda House in association with Pradhan Mantri Kaushal Vikas Yojna (PMKVY) and National Skill Development Corporation (NSDC) launched skill-hub centres in the college. The objective of setting up Skill Hub is to impart and inculcate skills among underprivileged and school drop-out women between the age-group of 15-40 and make them empowered and Atmanirbhar (self-reliant). At Miranda House arrangements are made to impart two skill courses under this initiative. Three months course on “Green Paper Bag Making”; 6 months course on “Artificial Intelligence”.

UNNAT BHARAT ABHIYAN CELL: Conduct awareness programmes in five areas – Education (particularly for girl-child), Menstrual hygiene, Health awareness [protein-energy nutrition (PEM)], Consumer awareness and Awareness about government welfare schemes. An online certificate course on ‘Community Outreach Program: ‘Together we can’ to

UBA volunteers and faculties. The course was open to anyone who wanted to understand the nuances of positive collaborative community engagement and it saw a successful participation of 600 students from different parts of the country.

Library Development

The total sanctioned Library Budget was Rs. 11,64,571/-. In the academic year 2021-2022, 940 volumes of books were added.

Faculty Strength

Permanent: 123

Temporary: 02

Adhoc: 69

Financial Allocation and Utilization

(a.) Rs. 65,37,21,233/-

(b.) Rs. 66,04,37,223/-

MOTILAL NEHRU COLLEGE

Brief History

Motilal Nehru College is one of the largest constituent colleges of Delhi University. The year 2014 marks the Golden Jubilee of the College. Beginning with a humble setting in a government school building in 1964 with an enrollment of 300 students, the college shifted to its present location in 1989 and now has an enrollment of over 3000 students coming from all parts of India and from abroad. The college boasts of a sprawling campus, huge library, technologically enabled conference room, spacious lecture theatres and excellent sports facilities. The entire campus is Wi-fi enabled and all students can have free uninterrupted access to internet connectivity. Over the past fifty years, our students and faculty members have brought laurels to the institution by excelling in academics, sports, social science and cultural activities. Our alumni have also done us proud with their achievements in administration, judiciary, entrepreneurship, creativity and other areas. The current batch of enrolled students has continued with the tradition of excellence in academic and extra-curricular activities. Our students have done exceedingly well in the examinations with some securing University positions. We have scored hundred percent results in most departments.

Major Activities and Achievements

Mr. Praveen Kumar Para Athlete won gold medal in Federation Cup National Junior Championships-2022. Mr Praveen Kumar Para Athlete having deformity in one leg and feet from the birth itself is a unique high jumper. His height is just 1.65 m and he had won Silver Medal in Tokyo Paralympics. On 4th June his coach Dr. Satya pal just tried him by entering into Junior National Federation Cup Athletics Championships being held in Nanded (Gujarat) for able Athletes.

Great performance by Parveen Kumar this time too by winning gold medal and sailing over the bar at 2.06m height while competing with able athletes. It is unique performance by a para-athlete having deformity in one leg and feet and his own height is only 1.65m. His coach Dr. Satyapal who has groomed him by very hard and continuous training at JN Stadium New Delhi has already achieved a distinction of producing 8 Arjuna Awardees in para-athletics and also trained lot of able athletes at national level.

Honours/Distinctions

Dr. Pawan Sinha received Daulat Singh Kothari National Award for 2019 for his book, titled ‘Shiksha ke Dwandwa’ by Uttar Pradesh Hindi Sansthan, Government of Uttar Pradesh.

Sinha, Pawan (Editor) (2021); 'Contour of Education', Institute for Research in Indian Wisdom (IRIW), Uttar Pradesh. ISBN: 978-81-955489-1-0.

Dr. Radhika Kumar received a minor Faculty Research Program (FRP) grant as Co-Principal Investigator from the Institution of Eminence (Delhi University) 2021-22 for the project titled Political Ecology of Traditional Water Systems: Exploring Possibilities and Potential in Uttar Pradesh and Haryana.

Students with Distinctions

Name of Students	Class
Praveen Kumar	Athletics
Ashif Khan	Athletics
Kanchan	Shooting
Shivang Singh	Taekwondo
SanskarTokas	Swimming

Publications

Dr. Anshuman Gunawat. (2022). Assessment of climate change impact and potential adaptation measures on wheat yield using the DSSAT model in the semi-arid environment. *Natural Hazards*, 111(2), 2077-2096.

Prof. A.M. Khan. (2021). Labiatae (The Mint Family) Phytochemicals and Medicinal uses to Humankind: A Review. *International Journal of Emerging Technologies and Innovative Research*, 9(2), 558-569.

Dr. Devendra Jarwal. (2022). Do Board of Directors Ensure Quality of Disclosures in Annual Reports? *Shanlax International Journal of Management*, 9(3), 17-25.

Dr. Pawan Sinha. (2021). Discourse on Secularism with special reference to India. *Shodh Darpan: An International Multidisciplinary Journal*, 12(1), 407-415.

Dr. Pawan Sinha. (2021). Global Water Crisis and India with special reference of threat to Native's Life and International Politic. *The Eternity, An International Multidisciplinary Journal*, 12(1-2), 424-431.

Dr. Radhika Kumar. (2021). Dalit Women Panchayat Members in Haryana: Gender, Caste and Political Representation. *South Asia Research*, 41(2).

Dr. Radhika Kumar. (2021). Songs of Protest. *Economic and Political Weekly*, 56(43).

Dr. Ram Babu Pachwarya. (2021). Effect of oxidant on the formation of disinfectant by-product low molecular weight organic matter. *Nature Environment and Pollution Technology*, 20(3), 1309-1313.

Dr. Seema Shrivastava. (2021). Narrative Disclosures in Company Annual Reports: A Case Study. *International Journal of Advanced Research in Commerce, Management & Social Science*, 4(4(2)), 113-121.

Patents Filed/Granted

Title of the invention "SOLAR POWER BANK" has been accepted in India Patent Journal.

Seminars Organized

Prof. Arun Kumar Malcolm Adishesiah Chair Prof., Institute of social Sciences, New Delhi, Impact of the Russia-Ukraine war on the Global Economy and on India, Economic crisis, 29 March 2022

Prof. Pushpesh Pant, former Prof., School of International Prof., Studies, Jawaharlal Nehru University, New Delhi, Politics of food, Understanding food politics, 21 October 2021.

Dr. SB Rathore, Former Associate Prof. of Department of commerce, Shyam Lal College, E-filing of Income Tax Return, Financial Literacy, 23 October 2021.

Prof. S. D. Muni, Prof. emeritus Centre for South Asian Studies, Jawaharlal Nehru University, New Delhi., Resurgence of Taliban and its Implication for India and South Asia, Political impact of an economically important event, 08 September 2021.

Prof. Satish Verma, Prof., SGBT Khalsa College, University of Delhi, What-If Analysis Solver In Excel with Real Life Example, Uses of MS Excel as an intricate tool to solve mathematical problems, 22 December 2021.

Conferences Organized

NCFAI 2022: National conference on asymmetrical federalism in India- Problems and prospects, 03 March 2022.



Seminar/Conference Presentations

Reforming Economics Education in India: Pluralistic Perspectives, organised by Rethinking Economics India Network and Satyawati College on 2022, April 16-17.

National Conference on Asymmetrical Federalism in India organised by the Department of Political Science, Motilal Nehru College on 2022, March 03-04.

ISDSI-Global Conference 2021: Leading business in a FLUID world held at Indian Institute of Management Nagpur from 2022, December 27-30.

11th International Advanced Computing Conference (IACC) organised by University of Malta, Malta, Europe on 2021, December 18-29.

Virtual National Conference on NEP 2020: Reflections on its Implementation held on 2022, January 09-10. Organized Sunbeam Women's College Varuna, M G Kashi Vidyapith, Varanasi.

National Conference on Business Management and Analytics organized by Department of Management Studies, National Institute of Technology, Tiruchirappalli, India on 2022, January 28-29.

National/International MoUs Signed

The MOU is being signed between Motilal Nehru College, University of Delhi and Connecting Dreams Foundation to implement the Changemaker Lab Programme and provide opportunities to students to understand the grass-root level challenges and solve them through systemic models of entrepreneurship initiatives. The programme members will be trained under the guidance and supervision of global experts drawn from both the parties and various universities and corporates. The Changemaker Lab Program is a semi-virtual, semi-physical institutional chapter of learning and local action. The proposed chapter trains the youth by creating SDG Champions and directs them towards the creation of sustainable business models that will carry the importance of sustainability. CDF follows a three-step theory of changemaking – collect challenges, create solutions,

change lives by collaborating with different stakeholders, and supporting innovation.

Placement Details

60+

Number of Companies visited for campus recruitment

54

Library Development

The College has a rich collection of books, journals and periodicals at present count, the college has 1,07,586 volumes. The library subscribers to about 86 periodicals and magazines of scientific and general interest. The library also has more than 22206 books in the book bank/student aid fund section. The library has an up-to-date online catalogue (OPAC) of its holdings for all users, 21 computer stations with internet facility are also available for the library members. The library has two computer stations with specialized software for visually challenged students. Apart from it, total number of books available in college library – 1,19,408.

Library has audio-visual room. 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 library is presently subscribing to about 104 periodicals, magazines. Newspapers of Library, 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. Now we ensure uninterrupted book issue/return to students and staff members.

Faculty Strength

142

Financial Allocation and Utilization

(a.) Rs. 65,14,05,000/-

(b.) Rs. 64,02,72,826/-

MOTILAL NEHRU COLLEGE (EVENING)



Brief History

Motilal Nehru College (Evening) is a constituent college of the University of Delhi. The College is situated on Benito Juarez Marg, in South Campus of University of Delhi. At the time of its inception as an Evening College in 1965, the institution was known as Government Degree College. Later on, the College came to be known as Hastinapur College from 1967 to 1977, a name which was altered to the current one in 1977. In 1989, the College shifted to its present location with a sprawling campus and extensive lawns. The College was named after Motilal Nehru, a revered freedom fighter and visionary, known for his significant contributions to India's struggle for freedom and independence. At the time of its inception, the specific thrust of the college was to provide the benefits of higher education to those who are employed in various professions, enabling them to get the much-coveted graduation degree from the University of Delhi. The vision of the College is to promote equitable and affordable education to various sections of society, irrespective of caste, class, gender and community. The College believes in disseminating value-based education and enabling young citizens to become agents of social change and the development of the nation.

Motilal Nehru College (E) upholds a mission of inculcating a sense of responsibility in its students and facilitating their holistic growth through classroom education, sports and extra-curricular activities as well as experiential learning.

Major Activities and Achievements

The College made best efforts to navigate through the challenges posed by Covid19 Pandemic. The

College continued using Microsoft Teams Institutional Platform for Online Teaching evening the new academic session (2021-2022) until complete transition to physical mode of teaching happened. The College conducted a series of webinars on various facets of NEP, Hindi Natak, Skill Development, Data Analytics, Yoga and Wellness etc to facilitate holistic dialogues on various issues of contemporary importance and knowledge dissemination.

Various teaching departments of MLNCE also conducted annual festivals in online/hybrid/physical mode. In addition, they organized online workshops and activities for the benefit of students, such as LitBenthos-22 organised by The Aesthetes (the literary society, Department of English) and Erudition-2 organised by Arthashastra (the Economics Society of MLNCE). The Aesthetes literary society, Department of English, published its annual magazine "The Aesthetes Literary" for the first time in Print.

Honours/Distinctions

Our faculty Dr. Rakesh Sinha continues as a nominated member of Rajya Sabha. The cricket team of faculty members of MLNCE won two different friendly matches against PGDAV College, Delhi University and Rajdhani College, Delhi University. Prof. G.N Trivedi was invited by Laxmibai College, University of Delhi as speaker for the 5 days Lecture Series organised by the college on the occasion of the anniversary of the adoption of the Constitution of India on 27 November 2021. He delivered a lecture titled "Understanding Constitutional Values".



Prof. R.N Tripathy was awarded the 'Indo-Pacific Teaching Excellence Award 2021' in recognition of the consistent superior performance in Disaster Management by 'The International Multidisciplinary Research Foundation' on 5 October 2021. Prof. R.N Tripathy was invited as Special Resource Person for the National Seminar on "Bhartiya Loktantra ki Chunautiyan evam Samadhaan" by Pandit Kunjilal Dubey Rashtriya Sansadiya Vidhyapeeth, Bhopalon 29 March 2022.

Debasish Parashar received an official invitation to the global art exhibition Traversamenti by legendary sculptor and multimedia artist Italo Lanfredini which featured his collaborative project Piroghe Mari with 54 of the world's leading contemporary poets and Lanfredini. The exhibition happened in the Villa Medici Del Vascello of the Renaissance era which belonged to Cecilia Gallerini, the model of Leonardo da Vinci's famous painting the Lady with an Ermine. Ms. Monika, Department of Commerce was awarded Ph.D. degree by University of Delhi in February 2022. Mr. Pramod Kumar Department of Political Science was awarded Ph.D. degree by University of Delhi in August 2021.

Ms. Deepika Handa (Department of Political Science) published a chapter "Enigma of Modernity: Emerging threats for the lives beyond Developmentality" in Globalization Governance and Human Rights South Asian Experience edited by Prof. Anisur Rahman and Dr. Niharika Tiwari (Concept Publishing Company Pvt. Ltd, 2022).

Dr. Hansraj (Department of History) published a book titled Prachin Boudhh Sansthanon Ka Samajik Sangrakshan brought out by Avidha books in 2022. Dr. Vikash Kumar Department of History Translated and Edited a book titled The History of the Santhal Parganas, Santhals and Paharias into Hindi titled Santhal Pargana Me Santhalo aur Pahadiyo Ka Itihaas, ISBN: 978-93-91503-92-5, published by Samyaka Prakashan, New Delhi, 2021.

Students with Distinctions

S.No.	Name of Student	Class	CGPA
1.	Prakash Joshi	English Hons	7.149
2.	Kanhaiya Lal	Hindi Hons	7.743
3.	Adarsh Shukla	History Hons	7.527
4.	Kartike Garg	Political Science Hons	7.514
5.	Divya Girhotra	B.Com Hons	CGPA 8.919

Publication

Bairwa P. and Kumar P. (2021). India Defeating Pandemic Covid-19: An Invisible Helping Hand of Swachh Bharat Mission. Journal of National Development, 34(01),35-45.

Bhalla P. (2022). Exploring the Growth in Financial Entities through the Inorganic Route: The Case of ICICI Bank. Stochastic Modelling & Applications, 26(03).

Dahiya J J. (2022). Transfigurations of Sita–Emancipation of Women: An Elucidation of Chita Banerjee Divakurni's Mythic Novel "The Forest of Enchantments". Language in India, 22;5, 132-140.

Hansraj (2021). Adivasi Aur Unka Itihaas. Global Thought, 22,134-137.

Kumar P. (2021). Historical Consciousness in Natya Literature: A Study of Shudraka's Mrcchakatika. International Journal of Research in Social Sciences, 11,2249-2496.

Kumar P. (2022). Blood and Sarab Thirsty Aboriginal Village Gods from Greater Magadha. International Journal of Research and Analytical Reviews (IJRAR), 09(01), 519-529.

Kumar R. (2021). Caste-Social Order and Political Category: A Comparative Study of British India and Princely States of Rajasthan'. Proceedings, Rajasthan history Congress, XXXV, 296-304.

Kumar S. (2022). Effects of Viscosity, Oblateness, and Finite Straight Segment on the Stability of the Equilibrium Points in the RR3BP. Applications and Applied Mathematics: An International Journal (AAM), 17(01), 81-98.



Parashar D. (2021). Wrinkles from a Tabula Rasa: A Review of Gili Haimovich's 'Promised Lands'. *Verseville*, XXXII.

Trivedi G.N. (2021). Gandhi Returns: The World after Covid-19 Pandemic. *Indian Journal of Public Administration*, 67(03), 492-498.

Seminars Organized

An Indic Perspective, NEP. The speaker of the event was Dr. Shantesh K. Singh., Associate Prof., Central University of Haryana, which was held on 30 May 2021.

Holistic and Quality education: NEP 2020, NEP. The speaker of the event was Dr. J.P. Dubey, Director, Department of Adult & Continuing Education, 06 August 2021.

Indian Knowledge system and the NEP 2020, NEP. The speaker of the event was Prof. Ramesh C. Bharadwaj, Director, Gandhi Bhawan, University of Delhi, 05 August 2021.

Skill & Entrepreneurship Development: The NEP 2020 perspective, NEP. The speaker of the event was Dr. Pavnesh Kumar Prof. & Dean Pandit Madan Mohan Malviya School of Commerce & Management Sciences, Mahatma Gandhi Central University, 04 August 2021.

Use of Technology in Education: NEP 2020, NEP. The speaker of the event was Dr. Omkar Rai, Director General, Software Technology Parks of India, Ministry of Electronics & IT, Govt. of India, 10 August 2021.

Conferences Organized

Online Panel Discussion on "Ukrainian Crisis and the Future of World Order", 10 March 2022.

Seminar/Conference Presentations

Deepak Gupta, Department of English presented a paper titled "Interrogating Normality: Reading Resistance in Tagore's *Drishtidaan* and *Subha*" in the 2nd IDSC International E-Conference on Disability: Resistance, Disruption and Transgression held from 29 November to 3 December 2021 by KMC and PMMMMMTT of Ministry of Education.

Dr. Priya Bhalla, Department of Economics, presented a paper titled "Exploring the Growth in

Financial Entities through the Inorganic route: The case of ICICI Bank" at the 3rd International Finance Conference 2022 organised by the Centre for Management Studies (CMS) of JamiaMilia Islamia.

Dr. Priya Bhalla, Department of Economics, presented a paper titled "The Path to A Corruption Free Order: Exploring the Gandhian Perspective" at the International Unequal World Conference held on 2021, December 08-09.

Extension and Outreach Activities

On 6 December 2021, the Ambedkar Study Circle observed 'Mahaparinirvan Diwas' by conducting a webinar. The keynote address was delivered by Urmilesh Kumar Independent Journalist-Author. Former Executive Editor, RSTV. Students as well as faculty members had questions for the speaker, and there was an interactive session between them.

On 11 March 2022, the ASC celebrated "Azadi Ka Amrit Mahotsav" with great pomp and show in association with "Citragrahini" by the screening of a film "Jai Bhim" directed by T.J. Gnanavel. The screening of movie was followed by 'Film Review' and discussion by Dr. Dilip C Mandal, Sr. Journalist and Activist. Also, there was a lecture on "Marginal Women and Ambedkar" by Dr. Rashmi Gopi, Associate Prof. of Department of Political Science, Miranda House, University of Delhi.

The Gender Sensitisation Committee organised an Online Creativity Competition to mark National Girl Child Day. The theme was 'Betiyanhain, ab Udne doh'. Entries were invited from 24 January 2022 to 27 January 2022. The event saw participation by 98 students.

The Gender Sensitisation Committee of the College held an Online Debate Competition on 08 March 2022 to mark 'International Women's Day'. The topic for the debate was "Should one-third seats be reserved for women in the Indian Parliament and state legislatures?"

During the COVID-19 pandemic, the Economics society Arthashastra organized an online session on the topic "Role of Data Analytics in Economics" on 4 October 2021. The speaker was Dr. Sandhya Krishnan Assistant Prof. at Meghnad Desai Academy of Economics, Mumbai.

The NSS and the IQAC cell of MLNC(E) in collaboration with Eager to Forge Ahead India Trust organised a lecture to commemorate 150th anniversary of Shri Aurobindo under Azadi ka Amrit Mahotsav.

Library Development

Total Budget Expenditure: - (Recurring Grant):
Rs. 8,00,000/-
Books added: 181
Journals subscribed: 14
Membership of N-List taken: YES

Permanent: 30

Adhoc: 48

Financial Allocation and Utilization

(a.) Rs. 31,15,00,000/-
(b.) Rs. 27,45,63,863/-

Faculty Strength

PANDIT DEENDAYAL UPADHYAYA NATIONAL INSTITUTE FOR PERSONS WITH PHYSICAL DISABILITIES (DIVYANGJAN)



Brief History

Institute for the Physically Handicapped, New Delhi was registered as a society in the year 1976 under the Societies Registration Act of 1860. It is an autonomous organisation under the administrative and financial control of Department of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice & Empowerment, Govt. of India. It has been renamed as "Pt. Deendayal Upadhyaya Institute for the Physically Handicapped" in the year 2002. It became National Institute in 2016 & renamed as Pandit Deendayal Upadhyaya National Institute for Persons with Physical Disabilities (Divyangjan) PDUNIPPD(D). One of the main objectives of the Institute is to develop manpower to serve the persons with locomotor physical disabilities of all age groups. In its pursuit of alleviating the difficulties of persons with disabilities, the Institute runs following courses affiliated to University of Delhi.

Bachelor of Physiotherapy (B.P.T) 4½ years

Bachelor of Occupational Therapy (B.O.T) 4 ½ years

Bachelor of Prosthetics & Orthotics (B.P.O) 4½ year

Major Activities and Achievements

Academic activities

This Institute runs post graduation course; Master in Prosthetics & Orthotics (MPO) duration 2-years and Under graduate courses; Bachelor of Physiotherapy (BPT), Bachelor of Occupational Therapy (BOT) and Bachelor of Prosthetics & Orthotics (BPO) duration 4 ½ years under the financial control of Department of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice and Empowerment, Government of India.

Clinic activities

The Rehabilitation Services provided by the Institute are as follow

Assessment of the persons/patients with physical impairments to specify their rehabilitation needs and their management/rehabilitation. Workshop for fabrication of Orthotic and Prosthetic devices eg. Calipers, splints, artificial limbs, ambulatory & mobility devices etc.

Out patient services of Physiotherapy, Occupational Therapy and Speech Therapy.

Social psychological and vocational counselling services.

Integrated Primary School.
Cross Disability Early Intervention Centre (CDEIC), PDUNIPPD(D) for children disabilities (0-6 years).
Further we are in process of starting post graduate courses in Physiotherapy and Occupational Therapy as well.

Students with Distinctions

S.No.	Name of Students	Class
1	Ms. Tannu Sharma	BPO
2	Ms. Pragati Bhardwaj	BPO
3	Ms. Esha Mehamood	BOT
4	Ms. Shivani Bhardwaj	BPT
5	Mr. Om Prasad Biswal	MPO

Publications

Arya K.N., Pandian S., Bhatnagar N., Sharma A. (September-October 2021). Rehabilitation of the Shoulder Subluxation based on Ultrasonographic finding among Poststroke subjects: A Case Series. 69(5), 1309-1317.

Joshi A.K., Arya K.N., Pandian S.(October2021). An Innovative Intervention for Impaired Proprioception and Stereognosis In Stroke: A Randomized Controlled Trial. Abstract Published in International Journal of Stroke; 16(2S), 64.

Pandian S. & Arya K.N., Kumar V., & Joshi A.K. (December 2021). Synergy Based Motor Therapy Inducing Favourable Changes in Motorfunction Components among Poststroke Subjects: A Single-group study. Published in Journal of Neuroscience in Rural Practice, 13(02), 261-269.

Suresh AMR, Kashyap D, Behera T.P., Tarsolia A.K. (May 2021). Effect of Muscle Energy Technique in Patients with non-traumaticlumbopelvicpain in the Age Group of 30-40 Years. Journal of physical Medicine Rehabilitation Studies & Reports, 3(2), 1-9.

Suresh AMR, Kashyap D, Behera TP, Kumar WERD. (July2021). Comparison of Isometric Endurance of Abdominal and back Extensor Muscles in Manual and Sedentary Males in the age group of 20-40 years. Journal of Ageing Science, 9(4), 1-7.

Shukla S. M., Behera T. P., Suresh A M R, Chauhan M., Jayavant S. and Kashyap D.(July 2021). Effect of UCBL and Medial Longitudinal arch support in Balance and Functional Performance in Bilateral Flexible Flatfeet in Patients Aged between 16 and 20 Years. International journal of Orthopaedics Research, 4(2), 56-62.

Upadhyay G., Nayak S., Behera T.P.(February 2022). Effect of AFO (Hinged) with Quadripod on Physiological Cost Index and Balance in Hemiparetic Patients. International Journal of Health Sciences and Research, 12(2), 188-193.

Vimal A.K.(August2021). Improvement in unilateral above knee amputee's limit of stability by using vibrotactile feedback. IIT Delhi, Ph.D. Thesis.

Research Projects

Building Sensorimotor Framework for Play Engagement for Sensorimotor & Socio emotional Development in Children with Developmental & Multiple Disabilities, March2019–March2023, Non-funded.

Neuralplasticity- based Sensory-Rehabilitation Protocol in Post-Stroke Hemiparesis. Indian council of Medical Research, October2019-September2022.

Seminars Organized

“Application of controllers in Lower limb exoskeleton, Lower Extremity Exoskeleton System “was organized. The speaker of the event was Mr. Rajnish Kumar Sharma Assistant Prof. (PO), (CRE approved by RCI), which was organized on 08 March 2022.

“Application in lower limb Protheses, Lower Extremity Exoskeleton System” was organized. The speaker of the event was Dr. Amit Kumar Vimal, Demonstrator (PO), CAT-CAM mechanism: (CRE approved by RCI) which was organized on 08 March 2022.

“Basic Understanding of Artificial Intelligence/Allied Health, Lower Extremity Exoskeleton System “was organized. The speaker of the event was Mrs. Smita Nayak, Demonstrator (PO), (CRE approved by RCI), which was organized on 07 March 2022.

“Recent and advanced robotics applications in prosthetics and Orthotics, Lower Extremity Exoskeleton System” was organized. The speaker of the event



was Mr. Indra Vijay Singh Lecturer (PO), (CRE approved by RCI), which was organized on 07 March 2022.

“Recent development of prosthetic socket in transtibial level of amputation, Overview of recent development in the Socket Technology” was organized. The speaker of the event was Mr. Mohit Gupta, Demonstrator (PO), (CRE approved by RCI) which was organized on 04 March 2022.

Conferences Organized

Orthotics and Prosthetics Association of India (OPAI), National Conference March 2022. The conference was organized on 28 March 2022.

Seminar/Conference Presentations

Akshay Joshi, Kamal Narayan Arya, & Shanta Pandian presented & published a paper titled “Influence of Exteroceptive & Proprioceptive Deficits on Motor Recovery Among Post Stroke Subjects - A Cross-Sectional Study” in Conference Souvenir-59th Annual National Conference of All India Occupational Therapist Association, held on 2022, March 11-13 (Virtual Conference) (IEC Ref.No. IEC8/2018/RP3).

Akshay Kumar Joshi, Kamal Narayan Arya, Shanta Pandian orally presented a paper titled “Novel Intervention for the upper limbsoma to sensory deficit in Stroke: An RCT” in XIth Asia Pacific Stroke Congress (Virtual), held on 2021, December 09-11 (IEC Ref.No. IEC8/2018/RP3).

Akshay Kumar Joshi, Kamal Narayan Arya, Shanta Pandian gave e-poster presentation of paper titled “An Innovative Intervention for Impaired Proprioception and Stereognosis In Stroke: A Randomized Controlled Trial” in 13th World Stroke Congress, held on 2021, October 28-29 (IEC Ref.No. IEC8/2018/RP3).

Akshay Joshi, Kamal Narayan Arya, & Shanta Pandian gave e-poster presentation of paper titled “Novel Sensory Rehab. Protocol in Stroke: A Preliminary Study” in Indian Federation of Neuro rehabilitation (IFNR), affiliated to World Federation of Neuro rehabilitation (WFNR), held on 2021, April 09-10 (Virtual Conference) (IEC Ref.No. IEC8/2018/RP3).

G Pandian, Ms. Anandi Kumara, Ms. Annu Sharma presented a paper titled “An alysis of effectiveness of online learning pandemic COVID-19 in Prosthetics

and Orthotics” in OPAI National conference held on 2022, March 28 at Goa.

G. Pandian and Ms. Twinkle Chauhan presented a paper titled “Pain relieving lumbo sacral belt” in OPAI National conference held on 2022, March 29 at Goa.

G. Pandian, Dr. Amit Kumar Vimal, Aishwarya Arora and Shruti Wadhwa presented a paper titled “Modified harness system for transradial body powered prosthesis” in OPAI National conference held on 2022, March 29 at Goa.

Indra Vijay Singh and Mr. Sohan Pal presented a paper titled “Prosthetists and Orthotists work experience in cutting Edge Technology-Characterized the Workplace and Individual” in 18th world congress virtual edition, Mexico held on 2021, November 01

Kamal Narayan Arya, Shanta Pandian & Akshay Joshi presented & published a paper titled “Biomarkers to Capture Recovery Process in Stroke Rehabilitation: A Review” in Conference Souvenir-59th Annual National Conference of All India Occupational Therapist Association, held on 2022, March 11-13 (Virtual Conference) (IEC Ref.No. IEC8/2018/RP3).

Rajnish Kumar Sharma and Mr. Devdutt presented a paper titled “A review on application of sliding mode controller and super twisting controller in lower extremity exoskeleton system” in OPAI National conference held on 2022, March 30 at Goa.

National/International MoUs Signed

MoU with ISIC Hospital is under process

Other Inter-Institutional Collaboration

The Institute has renewed the collaboration with MAMC Delhi for regular Medical classes of BPO students. A Collaboration with ISIC Institute of Rehabilitation Sciences, Delhi is under process.

Placement Details

Not conducted this year due to COVID-19.

Number of Companies visited for Campus Recruitment

College Park Private Limited, Gurugram

Endolite India Limited, Delhi

Orthoshed Private Limited, UP

P&O International, Delhi - Otto Bock Health Care

India Limited, Delhi

The above said companies visited the institute for campus recruitment. But the campus interview was not conducted this year due to COVID-19.

Extension and Outreach Activities

- Satellite Centre, Narela
- Satellite Centre, Nilokheri
- Satellite Center, Seemapuri
- Satelite Center, Tonk
- Southern Regional Centre, Secunderabad

Library Development

The Library has a collection of 14955 books of professional and non-professional subjects as on 31 March 2022 in the field of OT/PT/P&O/Rehabilitation and other allied subjects. During this year a total of 294 professional books with no. of copies were added. The Library subscribes Fourteen (14) Professional Foreign Journals in the field of OT/PT/P&O & Rehabilitation every year but in

financial year 2021-22 professional foreign journals were not procured due to COVID-19. The Library is providing Reference Service. Internet/Printout & Photocopy facility to its users as per library rules.

Faculty Strength

Course	Permanent	Temporary/Guest Faculty
BPT		17
(Common for BOT / BPT)		31
BOT		17
BPO		15
MPO		17

Financial Allocation and Utilization

- (a.) Rs. 27,20,06,000/-
- (b.) Rs. 27,02,79,000/-

PGDAV COLLEGE



Brief History

PGDAV College is a constituent unit of University of Delhi, established in 1957 guided by the vision of great saint Maharshi Dayanand Saraswati. To him education is that which helps one to acquire knowledge, culture, righteousness, self-control and helps to eradicate ignorance and evil habits. The college endeavors to follow him to offer value-based education to develop well-rounded individuals and nation. Our P.G.D.A.V. College Chairman, Shri Ajay Suri Ji and Principal Prof. (Dr) Krishna Sharma a visionary, positive persona and our pillar of strength

bestow us with inspiring guidance and encouragement.

The college is situated on the Ring Road and easily approachable by bus and Pink Metro line. Vinobha Puri metro station is just adjacent to college boundary wall. The college offers thirteen undergraduate and four postgraduate courses across twelve disciplines where it offers both the Honours and Programme degrees.

Committed and highly qualified faculty and diligent administrative staff are strength of our college. During the unprecedented pandemic times pedagogical and administrative engagement continued online.

The College has a state-of-the-art infrastructure. Smart classrooms, an auditorium, conference halls, well-equipped Computer Hub and laboratories, separate departmental rooms, staff room, one of the best library facilities, medical room with designated doctor, Gymnasium for both students and staff. We have a basketball court, table tennis room and a lush green cricket ground. The college has RO water system and one of the largest canteens in the University of Delhi. For differently-abled students the College has an active Enabling cell. Along with arduous academics, there are co-curricular and cultural activities for the students.

Our students excel in sports, fine arts, music, dance, and theatre bringing numerous awards. PGDAV is the alma mater of many national and international sportspersons. There are several scholarships available for deserving students. SAF committee provides fee concessions to the underprivileged students. Recently, College has created a Students Fund to help students affected by the COVID-19 pandemic. PGDAV College engages in sustainable practices, reducing carbon footprints by recycling/reusing the waste and enhancing green cover.

PGDAV family lays an enriching learning experience for students and a bond for life and beyond - *Asato M.A. Sadgamaya* (Bṛhadaranyaka Upanishad).

Major Activities and Achievements

Faculty of the college remained engaged in multifarious academic activities like contributing to professional journals, writing books, presenting papers at National/International conferences. They also conducted as well as participated in various certificate courses, Faculty Development Programs, Seminars, Webinars and Campaigns. Many colleagues were conferred Prof.ship and many earned their Ph.D. degrees during the year. New Environmental Studies laboratory was set up for students.

A QR code-based application and tactile path installed for guidance to visually impaired students and staff. Gymnasium for both students and staff members is also available.

Honours/Distinctions

Principal Prof. (Dr) Krishna Sharma was awarded Shashakt Mahila Samman by Bharat Vikas Parishad. Prof. (Dr) Krishna Sharma Prof. (Dr) Ashwani Mahajan and Prof. Gopal Dutt conferred Prof.ship.

Dr. Vishal Chauhan's research project title: - India-UK Creative Industries at 75: Opportunities and Challenges funded by Arts and Humanities Research Council (AHRC), UK Research and Innovation (UKRI).

Lt. Renu Jonwall presented the Paper titled "Socially Responsible Investment in India and Retail Investors".

Awareness about SRI at International Doctoral Research e-Conference 2021 organized by USMS, Guru Gobind Singh Indraprastha University, Delhi on Contemporary Issues in Management Research held on 30 July 2021 – 31 July 2021.

Mr. Musarat Ahmed, Ms. Shikha Menani, Ms. Neerza, Ms. Ritu Gupta, Ms. Anandita Goldar, Mr. Varun Bhushan and Mr. Ramveer were awarded Ph.D. Degree.

Students with Distinctions

S.No.	Name of Students	Class
1	Ishika Gupta,	B.Sc (H) Statistics II year
2	Vaishnavi Jaiswal	B.Sc (H) Statistics III year
3	Mehak Mahna	B.Sc (H) Statistics I year
4	Prakhar Bengani	B.Sc (H) Statistics I Year
5	Vidhi Jain	B.Sc (H) Statistics I Year

Publications

Majumdar K.K, Pahuja S. (2021). Corporate Environmental Disclosures of Oil and Gas Companies in India: An Analysis of Executives Perceptions. *Current World Environment*, 16(3), 861-879.

Majumdar K.K., Arora. S, Pahuja S. (2021). Climate change mitigation information disclosure of oil and gas sector in India: A perception analysis. *Advances in Environmental Research*, 10(2), 165-181.

Nanda S., Popli R., Jain A. (January 2022). "Maintaining Service Quality Benchmarks through Green Relationships: A Marketing Strategy for Sustainable success in Restaurants". *IOSR Journal of Business and Management (IOSR-JBM)*, 24(1),24-32.



Singh N. P. and Ramveer. (2021). "Recent Vogue and Progress of Indian PSB's". Inspira, Journal of Commerce, Economics and Computer science (JCECS), 7(July -September), 109- 114.

Singh N.P.and Ramveer. (2021). "Role of Information Technology: An Indian Banking Sector ". International Journal of Advanced Research in Commerce, Management & Social Science (IJARCMSS), 4 03(ii)(July -September), 220-224.

Singh N. P. and Ramveer. (2021). Digital Banking in India: Opportunities and Challenges.Printing Area: Interdisciplinary Multilingual Refereed Journal, 2(73/February), 85-90.

Sharma R. (2021). Environment in Popular Culture and Ancient Indian Literature. Summerhill: IAS Review, XXVII, No.1(Nil), 25-30.

Research Projects

"India China Trade Deficit: Causes, Effects and Solutions", Indian Council of Social Science Research, 24 months, Rs.6,50,000/-

"India-UK Creative Industries at 75: Opportunities and Challenges", Arts and Humanities Research Council (AHRC) and UK Research and Innovation (UKRI), UK, February to October 2022, Rs. 50,00,000/-

Seminars Organized

हिन्दी साहित्य में राष्ट्रीय चेतना का स्वर Dr. Uday Pratap Singh President, Hindustani Academy, Prayagraj, 27 October 2021.

Living with Ecological Prosperity life style economy and sustainability was organized. The speaker of the event was Prof. D.S. Rajput, Ex-HOD Department of Sociology, Delhi University which was held on 10 July 2021.

International Day for Biological Diversity was organized. The speaker of the event was Prof. Dinabandhu Sahoo, Dr. Ram Karam, Mr. Ankit Kumar Vice Chancellor Fakir Mohan University, which was held on 22 May 2021.

Benefits of protecting forests and trees in India, Van Mahotsav was organized. The speaker of the event was Mr. Sahiram Bishnoi, Sarpanch which was organized on 07 July 2021.

University of Delhi: 99th Annual Report 2021-22

World Environmental Day was celebrated. The speakers for the event were Prof. Radhey Shyam Sharma and Ms. Anali Bustos, Assistant Prof. (Senior) Delhi University which was held on 05 June 2021.

Conferences Organized

KURU PANCHALA: Significance of Devi Draupadi Lands, 20 March 2022, P.G.D.A.V. College

Living with Ecological Prosperity: Life Style, Economy and Sustainability, 11 July 2021, P.G.D.A.V. College

Van Mahotsav, 07 July 2021, P.G.D.A.V. College

National Pollution Control Day, 02 December 2021, P.G.D.A.V. College

International Day for the preservation of the Ozone layer 2021, 16 September 2021, P.G.D.A.V. College

Seminar/Conference Presentations

Socially Responsible Investment in India and Retail Investors' Awareness about SRI Environmental audit: Genesis, evolution and trends Decoding Normal Samanya: Popular Hindi Cinema and the Construction of Caste Hindu Identities, 2000-2010

Marketing of Library Information Products and Services to Divyangjan: An Inclusive approach of University Libraries Optimality Conditions for a Multi-Objective Bi Level Problem Programming Immigration, Cultural Diversity and Legal System in the United Kingdom Resilience in Global Research and Engagement during the Pandemic.

Vedic Sahitye mein sanyevigyan Investors Interest and Innovative Instruments Paper Title: Stock Return Seasonality in Emerging Asian Markets.

Role of Information Technology: An Indian Banking Sector.

National/International MoUs Signed

Pt. Ravishankar Shukla University (PRSU)

Other Inter-Institutional Collaboration

Mahatma Hansraj Faculty Development Centre TLC, Ramanujan

Number of Students Placed

Number of Companies visited for Campus Recruitment

120

Extension and Outreach Activities

NSS unit constantly endeavors for making a difference for well being of the society and initiate various steps and programs for social and women empowerment.

NSS PGDAV Volunteers conducted plantation drive for creating awareness and commemorate the importance of trees among the masses under *Green and Clean Drive for Swachhta Pakhwada*. *Freedom Run* was organized in college premises with the volunteers living in Delhi for celebrating Fit India Freedom Run 2.0. *Fit India Freedom Run and Azadi Ka Amrut Mahotsav*.

NSS PGDAV in collaboration with e-Junki organized a webinar on harmful effect of e-waste on the environment. Mr. Devansh Chopra and Mr. Aditya Rai were guest speakers.

An online Hindi Poetry Competition – *Khayalat*, was conducted to encourage the use of hindi on the occasion of Hindi Diwas.

The South-East Delhi District launched a three week Clean Yamuna Campaign under The clean India programme on 7 October 2021 for 20 days which aims to clean the entire stretch of the Yamuna falling under the South-East district. 6 volunteers from the NSS PGDAV took part in the campaign.

NSS PGDAV in collaboration with 'Ritva-DSC' conducted sanitary napkins distribution drive in a slum area adjacent to the college. The motive of the drive was Awareness about menstruation among women. Nineteen volunteers were involved in this drive. They also performed a Nukkad Natak to educate ladies about menstruation health and safety. This Nukkad Natak was mentioned in HT City (28 November 2021).

A book collection and donation drive was organized in college premises where around 150 books were collected and donated.

NSS PGDAV with Indian Red Cross society organized blood donation camp in College premises in which volunteers and students came to together for a noble cause.

NSS PGDAV in collaboration with Central Bank of India organized set of Inter College Debate and Quiz competitions held on 25 March 2022 on the proud moment of 75th Azadi ka Amrit Mahotsav.

The session of 2021-22 NCC cadets exhibited great enthusiasm and spirit of discipline while accomplishing all the activities. Our Cadets Participated in large numbers in various online drives and activities like International Yoga-Day, Mass vaccination Drive, NCC Digital Forum, Swarnim Vijay Varsha, Fit India Campaign and many more. Even cadets got Covid-19 training through DIKSHA app. To walk on the Rajpath is a dream of many, this year JUO Priyavansh, JUO Sudhir Singh Chauhan and JUO Ashish Bhatt walked on the Rajpath with pride in their eyes and marked their presence in the prestigious *Republic Day Parade Camp* of 2022. JUO Hari Om and CDT Preeti achieved the prestigious 'ADG Appreciation Award' for their contributions in the PM Rally Cultural.

Outreach Program 2021-22 Kavyanjali 2.0 (Inter College Online Poetry Competition) on 27 September to 10 December 2021 in association with Consumers India on the topic: Whatsapp, Twitter, Instagram; Too much information, what is fake, what is true? received 139 entries.

Webinar on "Future is Digital and How Digital Marketing is Future Professional Career" was held in association with Web Seasoning on 9 October 2021. Inter College Reel Making Competition in association with Consumers India on 9 October 2021 on the topic:

बाज़ारभरासामानसे, नकलीजालीखोटा ।
कबीराखड़ाबाज़ारम"कहे,

सुनोभाईसाधो, लेनामालसंभालके ॥

Diwali Message - word was spread to celebrate eco-friendly Diwali by using terracotta diyas, reusing old clothes to decorate and to have a safe Diwali by not using harmful, chemical crackers.

Memezaar 2.0 (Inter College Meme-Making Competition), an Inter college MEME Making competition in association with Consumers India from 15 February to 5 March 2022, on the topic: Misleading Ads Take You to La-La Land, Away From Reality, Beware!! received 90+ entries.

Through its own Instagram page, Facebook page and Blog, Satark Alert- a series of updates and Consumer Awareness Ft. Satark – a reel-series, we talk about all aspects of consumerism from the basic consumer rights to international buying laws; from social media thrift stores, social causes to all the consumer news.

Library Development

PGDAV College library has a very rich collection of more than one lakh books on various subjects and



disciplines. It subscribes around 65 periodicals and 17 newspapers for the knowledge and reading pleasure of students and faculty alike. We aim to provide comfortable and peaceful reading ambience that facilitates students to enhance their concentration while studying for long hours. Thus the library is fully computerized, air-conditioned and Wi-Fi enabled with High Tech CCTV surveillance to ensure conducive and pleasurable reading Publications environment. Library provides free access to both conventional as well as electronic resources like N LIST and Delhi University Library System e resources to its registered users. Students and faculty can access and download e-books and e-journals.

College Library extends support to needy students through book bank facility. Needy and meritorious students can borrow books for the entire semester related to their course. Library serves its differently abled students through various assistive devices and technology. We have a dedicated lab for accessing Braille library resources, Sugamya Pustakalaya and reading & recording of other resources for visually impaired students. Students are supported for learning and reading through various softwares like JAWS and devices like ANGEL, DAISY Reader, MP3 recorder, Net books, Zoom Ex Instant Text Reader, Lex Portable Camera etc.

E-Library with 23 terminals has been developed for the college students to maximize the use of e-resources and facilitate internet browsing for academic purposes. Distinct, peaceful and spacious Reference Section is now available for library. The section is embellished with comfortable furniture for reading and conducting orientation programs.

Colleges Library also carries environmental concerns and committed to work on the principle of REDUCE, REUSE and RECYCLE. Green/Recycled stationary products are used in exchange of library paper waste. Under free plantation drive we planted around 30 trees in the college as a tie up with Green-O-Tech Company in exchange of recycling of papers. Emphasis is on using star rated electrical equipments. Library is having complete LED light setup. Also old computers are refurbished and put to use for the library users.

Library regularly apprise its users about collection, resources and latest in the field of research. This year college library under the aegis of IQAC organized a

webinar on *Understanding Research Metrics for Better Academic Visibility* for its users. Continuous orientation programs are conducted to help the students to use the library resources effectively. Four days workshop on *Know Your Library and Learn to Access E Resources* was conducted as an information literacy program for the newly admitted students of the college.

To motivate library users and provide wider platform for book selection, college library also organized Book Fair for two days 2-3 March 2022. The occasion was graced by the two distinguished personalities of the University of Delhi. Chief Guest Prof. K. P. Singh a distinguished educationist, eminent librarian, teacher, teacher activist and Guest of Honour, Prof. A.K. Bhagi a renowned face and popular teacher activist, Former EC Member and President NDTF and DUTA spoke about importance of books in our lives and asserted on the need of digital literacy. Many popular publishers were invited to display their collection. The book fair fetched overwhelming response from the faculty and students of the college.

Since last two years the entire world is struggling with the COVID pandemic. Libraries are not untouched and to sustain in such situation library modified its mode of delivery of services and resources. The college library followed the COVID protocols in its working and offering services to its users. Online New arrival alerts, new and free e-resource updates, online book recommendation facility, overdue reminders, mail alerts, website updates related to library resources and services, remote log facility, plagiarism check facility for faculty of the college are the few initiatives taken by the college library adapting to the current scenario.

Faculty Strength

Permanent: 91

Ad hoc: 71

Temporary: 03

Financial Allocation and Utilization

Rs. 50,99,76,204/-

Rs. 59,80,58,328/-

P.G.D.A.V. COLLEGE (EVE.)



Brief History

P.G.D.A.V. College (Evening) is a member of the DAV family of institutions which derives its vision from the great ideas on education propounded by the renowned social reformer, Maharishi Dayanand Saraswati Ji. These ideas led to the growth of the DAV movement which began with the founding of the Dayanand Anglo-Vedic College Trust and Management Society in Lahore in 1886. With the motto 'असतोमासदगमय' (Move from untruth to truth), the DAV institutions attempt to provide principles, ideas, and alternatives that can help us in our personal quest for greater fulfilment. With seven faculty members and two-hundred students (approx.), as evening classes of PGDAV, the college started on 18 July 1958. Dr. Bhai Mahaveer was the Vice-principal and Dr. Nityanand Sharma was the first Principal of the college. After that Dr. R.K. Seth and Dr. R.C. Gupta, Dr. R.M. Bhardwaj, Dr. Ramji Narayan, Dr. Rajesh Kumar and Dr. Pushraj Jain served the college. Since 2014, the College has been touching new milestones under the expert guidance and supervision of the college principal, Prof. R. K. Gupta,. Highly qualified and experienced sixty-nine faculty members from ten departments are serving the college, with the present student strength of 2600 students (approx.).

Major Activities and Achievements

National Innovation and Start-up Policy (NISIP): Following the mandate of the Ministry of Education, Govt. of India, the College has established the 'Skill, Innovation and Entrepreneurship Cell' in August 2021

which will be working to implement the 'National Innovation and Start-up policy 2019' in the College. Mr. Gaurav Rana (An alumnus of the college) qualified for Combined Defence Services and is currently serving the 14th battalion of Assam Rifles as Captain. Recently, he led the parade on Army Day and the Republic Day 2022.

Vipin Chaudhary (An alumnus of the college) unfurled the tri-colour flag of India on Aconcagua peak, Argentina.

The Ministry of Education has recognized our efforts as a sustainable campus for the Swachhta Action Plan Committee and the working groups and post Covid-19 sanitation & hygiene, waste management, water management, energy management & greenery management.

The Bird Count India, an organization has acknowledged our enthusiastic participation in the campus bird count event on 18 February 2022. The Rotract Club of our college was awarded for helping the Rotary serve to change the lives of people all over the world.

Three NCC cadets attended the Republic Day Camp. The College Cadet JUO Hari Om received the ADG award for his performance in the PM's rally on the NCC day 2022.

Honours/Distinctions

Awarded First Prize at National Level under 'Akshay Urja Yojana (अक्षय ऊर्जायोजना)' by Ministry of New and Renewable Energy, Govt. of India for the book नवीकरणीय ऊर्जा संसाधन (Publications Division, Govt. of India ISBN: 978-93-5409-172-8)

Students with Distinctions

S.No.	Name of Student	Class
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1	Krishna Verma	BAP
2	Ruchi Yadav	BCP
3	Ashutosh	HN
4	Sakshi Garg	BCH
5	Raaj Roshan Mishra,	MT

Publications

Bhagat, A.K. (2021). Hidden Issues in Mahesh Dattani's play. Notion Press, India, NA (ISSN 978-1-6-3781-324-9), 28-46.

Singh. S. (2021). Dr. Ambedkar aur Prajatantra. IJIM, Vol. 11(issue II), 14-20.

Singh. S. (2021). Kanshiram aur Asmita ki Rajniti. IJIM, Vol. 11(issue 11), 5-12.

Kumar R. (2021). A Study on Significance and Impact of Corporate Governance: A Generic Analysis in Empirical Economics Letters. *International Journal of Economics, Practices of Business Management and Economics in Research*, Special Issue 2(Special Issue 2), 75-82.

Sethi, P.K. (2021). Technological Advancement in Olympic Weightlifting. *Sports Science and Nutrition*, Vol-2(Issue 2), 15-17.

Sethi, P.K. (2022). Relationship between Quadriceps, Gluteus and Hip Flexors Muscle Power and Olympic Weightlifting Skills Performance. *International Journal of Physiology, Nutrition and Physical Education*, Vol-7(Issue 1), 135-137.

Chandra, A., and Bagdi, N. (2021). Analysis of Factors Influencing the Adoption of the E-teaching Methodology of Learning by Students: An Empirical Study amidst the Present Pandemic Crisis. *Asian Journal of Economics and Banking* (Emerald Publishing Limited), Vol: 5(NA), 15-24.

Garg A. (2022). A Detailed Overview of the Development and Implementation of Cloud Computing and its Effects on Financial Management Systems. *Korea Review of International Studies*, (ABDC, UGC CARE) (ISSN No: 1226-4741), Volume 15(Special Issue 1), 22-30.

Garg A. (2021). The Effect of Emotional Intelligence on Teaching Effectiveness and Research Quality of University Faculty in India. *Natural Volatiles and*

Essential Oils (NVEO) (Scopus Indexed-SJR-Q3/ UGC CARE), (ISSN No: 2148-9637), Vol. 8(issue 5), 2108-2117.

Garg A. (2021). Critical Analysis of the Emergence and Development of Crypto Currencies and How it Impacts the Current Economic Activities. *Vidyabharti International Interdisciplinary Research Journal* (Web of Science (ESCI), UGC CARE) (ISSN No: 2319-4979, NA (Special Issue), 794-799.

Research Project

ICSSR, 2021-22, Emergence of New Self-Reliant India, Rs. 13 Lakh

Seminars Organized

Speaker- Dr. Yash Veer Bhatnagar, Scientist, Tature Conservation Foundation, Mysore, spoke on 'Snow Leopard & Its Conservation in India' on 27 Oct. 2021
Speaker- Dr. Suneel Pandey, Director, Environment & Waste Management, TERI, New Delhi, spoke on 'Waste Segregation, Reuse & Recycling Biggest Challenge & Opportunity for Waste Management, on 08 Nov. 2021.

Speaker- Dr. Kalpana Kumaran, Associate Prof. & HOD-PGDM-Digital Marketing & Transformation, ITM Business School, Kharghar, Navi Mumbai, spoke on 'Digital Marketing' on 24 Nov. 2021.

Speaker- Prof. Khushboo Varma, Soft Skills trainer at ITM Business School, Kharghar, Navi Mumbai, spoke on 'Skill Improvement & Upskilling During Global Crisis' on 15 Nov. 2022.

श्री अतुल कोठारी, राष्ट्रीय सचिव, शिक्षा संस्कृति उत्थान न्यास, नई दिल्ली, राष्ट्रीय शिक्षा नीति 2020, 17 Jan. 2022

Seminar/Conference Presentations

Dr. Dimple Gupta, from the Department of Hindi, presented a research paper on the topic "Tejindra Sharma in the context of Pravasi Literature" at the two-day International Conference organised by the Department of Hindi, Janki Devi Memorial College in collaboration with the Literature Accumulation Dialogue Foundation on 2021, October 30-31.

Dr. Shruti Vip delivered a series of lectures as a part of the online lecture series of UGC, CEC from April 2021 to April 2022 on the topics "Inequality and



Difference” (4 lectures) and “Women in Indian History from 1500-1950 CE”.

Dr. Shurit Vip delivered a special lecture on International World Heritage Day 2022 on 2022, April 18 under the aegis of the Inter-University Accelerator Centre, UGC, CEC initiative of distance learning.

Dr. Shurit Vip delivered a special sign language lecture on ‘Colonialism and Nationalism’ on 4 April 2022 under the aegis of the Inter-University Accelerator Centre, UGC, CEC initiative of distance learning, as well as a lecture on International Women’s Day on 2022, March 08 under the aegis of the Inter-University Accelerator Centre, UGC, CEC initiative of distance learning.

Dr. Motiur Rahman Khan, Department of History was invited to Aditi Mahavidyalaya (University of Delhi), Bawana to give a talk on ‘Lal Qila: A Great Indian Heritage’ on 2021, December 15.

Dr. Sethi delivered a guest lecture on “Sports Training” at the Department of Physical Education, DAV University, Jalandhar, Punjab on 2022, April 08-09.

10-12 दिसम्बर 2021 को ‘वाइडर एसोसिएशन फॉर वैदिकस्टडीज’ (वेक्स) और केन्द्रीय संस्कृतविश्वविद्यालय, श्रीरघुनाथ कीर्तिपरिसर, देवप्रयाग, उत्तराखण्ड के संयुक्त तत्वावधान में ‘वैदिकपरिप्रेक्ष्य में स्वतन्त्रता एवं समानता की अवधारणा’ विषय पर आयोजित 25वीं इंडिया कांफ्रेंस के III अकेडमिक सेशन में ‘समानता की वैदिक अवधारणा एवं आधुनिक विश्व’ विषय पर शोधपत्र प्रस्तुत।

National/International MoUs Signed

Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya on 01 April 2021 about Distance Education Programmes

Vidya Vistar Scheme on 29 July 2021- V2Scheme (SSNJ Mahavidyalaya, Deoli, Maharashtra)

Vidya Vistar Scheme on 29 July 2021- V2Scheme (Govt. College, Sheo, Barmer, Rajasthan)

M/S IDEAS INC. Management Pvt. Ltd. On 20 July 2021 - Prepaid Card Solution and Online Collection of Fee

Delhi Taekwondo Association on 19 Aug. 2021- Run A Taekwondo Academy

Delhi Volleyball Association on 19 Aug. 2021- Run A Volleyball Academy

Harela Foundation Trust on 20 Sept. 2021- Environmental conservation and awareness activities.

INTERNSHALA on 01 Nov. 2021- College Registration with Internshala

M/S IDEAS INC. Management Pvt. Ltd. On 12 Oct. 2021- Prepaid Card Solution and Online Collection of Fee

Other Inter-Institutional Collaboration

The Cultural committee of the College organized its annual cultural festival FALAK, on 15-16 April 2022. In the series of events marking Aazadi ka Amrut Mahotsav, the theme for the festival was- ‘Bharat – Swarnim Itihas se Swarnim Bhavishya ki oar’. Taking into account the Covid situation, this year’s annual festival was conducted in virtual mode, and an overwhelming response was received from the participants with more than 600 entries in the 20 competitions. The two-day extravaganza provided a platform to the students from different colleges of the University of Delhi as well as other universities located in and around the National Capital Region of Delhi, to showcase their talents in a number of activities like solo and group dance, singing, instrumental music, debate, creative speaking, poetry, photography, poster making, rangoli, mehndi and many more.

Inter-college debate competition organized by RITVA, PGDAV College (Eve.) on 07 November 2022. The theme was: “Girls should feel free to talk about periods in front of a male member of the family.” An Introductory Talk on “Mind Management Through Shri Bhagavad Gita” was organised by Culture & Ethics Cell, PGDAV College (Eve.) in collaboration with ISKCON, Ashraya Youth Forum.

The Placement Details

33

Number of Companies Visited for Campus Recruitment

01

Extension and Outreach Activities

During this pandemic period, the College has continued with its tradition to serve humanity by organizing an RT-PCR testing facility and a Covid-19 vaccination camp, initially for one day and after that on a permanent basis since 22 Nov. 2021, on the

college premises. It is meant for all adults (18+) and later extended to children (above 15+) of the teaching, non-teaching staff, students and their family members and residents nearby. During the pandemic period, the NSS unit of P.G.D.A.V. Eve. College collaborated with the NSS Unit of different colleges in order to organise different kinds of services for needy people. In this process, they provided oxygen cylinders, plasma, blood, medicine, food, ambulance, hospital beds, home ICU and all the essential items.

Project Pathshala is the greatest initiative taken by the College NSS. Project Pathshala is our initiative to add quality, life skills and values into the lives of slum children and empower them to chase their dreams, through education. Our goal is pretty simple and we want to teach as many students as we can so that they can have a goal in their life and can chase their dreams with our guidance.

Sansparsh Samiti is a new feature of P.G.D.A.V. College (Evening) through which clothes, shoes, books, copies and reusable products are collected from the staff and students and given in donations to different organizations.

Rotaract club has been efficiently working with zeal and motivation towards the goal of sustainability and humanity. The club has been awarded the Rotary Citation by Rotary International which is a symbol of

excellence and hard work recognized on the global level.

Cloth donation, food donation, menstrual hygiene, education for the underprivileged, professional development of our club members, blood donation camps and several more activities have been taken up by the club in this tenure.

'Subh Aashish', a venture was started by PGDAV College (Eve.), based on condolences under which students of all the departments of the College visited old age homes at least once or twice a month.

Library Development

P.G.D.A.V. Eve. College Library software has been upgraded to a new library management system KOHA. This is an open-source software based on cloud technology which means that the library can be accessed online using a computer or a mobile from anywhere.

Z

Faculty Strength

69

Financial Allocation and Utilization

(a.) Rs. 31,44,50,000/-

(b.) Rs. 22,57,20,201/-

RAJDHANI COLLEGE



Brief History

Rajdhani College was established in 1964 by the Delhi Administration in Kirti Nagar, New Delhi under the name of Government College and was renamed

Rajdhani College when the Delhi administration vested its governance in an autonomous Governing Body. Rajdhani College is a constituent college of the



University of Delhi and has completed 50 glorious years of academic excellence.

The College is situated in West Delhi on Mahatma Gandhi Marg (Ring Road) near Raja Garden, New Delhi and is accessible from all corners of the city. Ramesh Nagar and Rajouri Garden metro stations are just a few steps away from the college. ESI Hospital is just around the corner. Its strategic location makes the College much sought after, apart from its academic excellence.

Initially, the College was started in a school building at Kirti Nagar with negligible facilities but with the efforts of the governing bodies, faculty and administrative staff, the College became one of the best colleges of the University of Delhi. To cater to the increasing number of students, a beautiful and spacious college building was constructed in 1976-77 which was inaugurated by the then President of India, Shri Fakhruddin Ali Ahmed. Recently a new academic block has been built to accommodate the ever-increasing number of students. The two-storeyed new block has eight new classrooms, one computer lab and one biology lab along with a lift. The college complex has an air-conditioned Seminar/Conference Room, an air-conditioned Auditorium, and a well-stocked Library with Computer and Internet facility with access to more than one lakh scholarly books and e-books on various subjects. The College has well-equipped Science Laboratories, Maths and Computer laboratories.

A Robotics laboratory in collaboration with e-Yantra IIT Bombay has been established in the current academic year. It was formally inaugurated on 16 January 2015. This lab is also a part of an initiative of the Ministry of Human Resource Development (MHRD) vide National Mission on Education through ICT (NMEICT) to promote education in embedded systems and robotics throughout the country. To facilitate recreation, the College has a beautiful playground for outdoor sports activities like cricket, football, hockey, volleyball, etc.

With the help of its dynamic staff, the College strives for excellence in education, sports, and the co-curricular well-being of its students. Our college today is looked upon by the academic community of Delhi as one of the most excellent institutions for its progressive outlook towards teaching, learning and co-curricular activities. We are committed to providing an enabling environment in which the holistic growth of every student is possible.

We offer courses in Commerce, Humanities, Social Science, and Science Stream. Among the different honours courses, the College offers Bachelor with Honours Commerce, Bachelor with Honours in English, Hindi, Sanskrit, History, Political Science, Economics, and Bachelor with Honours in Chemistry, Physics, Mathematics and Electronics. Apart from that, the College also offers B. Tech. Electronics, and B. Tech. Computer Sciences. The College also offers postgraduate courses in English, Hindi, History and Commerce. For the overall development of the students, co-curricular activities are organised through various societies. Every department has its own society which conducts regular academic programmes and events relating to its subject area. Apart from the departmental societies like the Economics Society, English Literary Society (ELA), Physics and Electronics Society, Robotics Society, there are other societies and committees as well. The Debating Society aims at developing a sharp and logical mind and organises debates on stimulating topics. The Cultural Committee organises various cultural activities so that the students remain deeply rooted in their culture and respect and value other cultures also. 'Abhivyakti' is a society which promotes dance and drama and thus it provides an exclusive space for expression to the students. It also acts as a catalyst to bring out the hidden talents of the students. Trekking, Mountaineering and Environmental Protection Club offer the students opportunities for personality development and enrichment by means of promoting environmental appreciation and awareness. During the last fifty years, the faculty and students have brought laurels to the College in all fields like Dr. Rama Kant Shukla a Padam Shri, Dr. Ram Babu Gupta, an International Cricket umpire, Shri S B L Sharma and Dr. H M Lumb National Mountaineers, Sh. J V Raman an excellent newsreader and Shri Dibange a popular face on Doordarshan, and Shri Balbir Punj, a Member of Parliament (Rajya Sabha). Dr. S Marriya, our first student with first roll no. retired as Principal DAV College Chandigarh. Ashish Nehra, Mithun Manhas and Aakash Chopra the International Cricketers, Prof. Rajesh Gokhale Director IGIB CSIR Lab, and many students got Gold Medals in academia like Dr. Virender Kumar Dr. Rakesh Kumar Yadav to mention a few. Many of our students are fortunate enough to become Assistant/ Associate Prof.s in colleges like Dr. S K Garg Dr. Sunil Sondhi, Dr. Virender Kumar Ms Renu Gambhir, Dr. Y S Sharma Dr. Shashwati Sarkar, Dr. Sharmila Yadav etc. The College has given three

Principals to the University of Delhi- Dr. B S Yadava in his own Rajdhani College, Dr. S K Garg Deen Dayal Upadhyaya College and Dr. Sunil Sondhi, Maharaja Agarsen College.

Honours/Distinctions

Prof. Suman Kumar from the Department of Political Science became a member of BSNL, Telephone Advisory Committee, Patna, Bihar (2021-2022)

Prof. Suman Kumar is also a Member of NAAC PRT (2021-2022)

Prof. Sushil Dutt from the Department of Political Science was appointed as a Ph.D. Thesis Evaluator on the topic “भारतीय राष्ट्रीय आंदोलन में वाराणसी की भूमिका-एक राजनीतिक अध्ययन(अगस्त क्रांति के संदर्भ में),” by Mahatma Gandhi Kashi Vidyapeeth Varanasi on 18 January 2022.

Students with Distinctions

S.No.	Name of Student	Class
1	1. Sanchit Agarwal	BA (Hons) Economics
2	2. Vandana Verma	B.Sc. (Hons) Physics
3	3. Mamta	B.Sc. (Hons) Mathematics
4	4. Dev Thapar	B.Com. (Hons)
5	5. Eshna Jain	B.Sc. Physical Science (Electronics)

Publications

Gopal, K., Gurjar, M.C., and Kulagin, V. V. (2021). Terahertz radiation generation from short-pulse laser interaction with electron-hole plasmas. *EPL (Europhysics Letters)*, 133(1), <https://doi.org/10.1209/0295-5075/133/14001>.

Talwar, S.L., Lumb, S., and Prasad, V. (2022). Optical properties of hydrogenic impurity in a distorted quantum disk. *The European Physical Journal Plus*, 137(Article number: 175 (2022)), <https://doi.org/10.1140/epjp/s13360-022-02393-4>.

Yadav, C., Sen, K. D., Kumar K, and Prasad, V. (2022). Multipole polarizabilities and dipole oscillator strengths of H-atom in non-ideal classical plasmas. *Eur. Phys. J. Plus*, 137(78), <https://doi.org/10.1140/epjp/s13360-021-02288-w>, h index 67.

Dhaka, S.K., and Others. (2021). Variations in the chemical composition of aerosol during Diwali over mega-city Delhi. *Urban Climate*, 40(NA), <https://doi.org/10.1016/j.uclim.2021.100991>.

Dem, H., and Chaudhary A. (2021). Dual Stage Trade Credit Policy for Integrated Inventory System. *Journal of Contemporary Issues in Business and Government*, 27(3), 1415-1424.

Gopal, K., Varshney, P., and Vijay, A. (2022). THz emission with Xmode Laser Pulses. *Indian Journal of Physics*, 96(<https://doi.org/10.1007/s12648-021-02219-6>), 3015-3022.

Sharma R.D., and Gupta, A. (2021). A Generalized Approach towards Normality for Topological Spaces. *Korean J. Math*, 29(3), 501-510.

Dhaka, S.K., and others. (2022). Genesis of a Severe Dust Storm Over the Indian Subcontinent: Dynamics and Impacts. *Earth and Space Science*, 9(2), <https://doi.org/10.1029/2021EA001702>.

Singh D. (2022). Evolution of plasma wave oscillations in Terahertz Frequency Regime in the wake of ultra-short laser irradiation on air plasma. *Springer Proceedings in Physics*, 271(E-Book), 511-590.

Arora, U., and Kumar. S. (2022). Fixed points for weakly compatible maps with EA and CLR properties. *J. Math. Comput. Sci*, 12(Article ID 60), <https://doi.org/10.28919/jmcs/7052>.

Research Project

Science and Engineering Research Board (SERB), Department of Science and Technology, 2022-2025, Semi-Linear Stochastic Partial Differential Equation driven by Cylindrical Levy Process in Banach spaces, amount- Rs. Six Lakh

Seminars Organised

A seminar entitled ‘Indo -Russia relation: Likely Impact of Ukrainian Crisis’ by Prof. Amitabh Singh Associate Prof. in JNU, Lecture Series, on 11 March 2022

A seminar entitled ‘Career in Law’ under Career Counselling by Dr. Varun Chhachhar, Assistant Prof., Faculty of Law, University of Lucknow, on 11 Nov. 2021

An online National seminar entitled ‘National Consciousness and Translation’ by Prof. Panchanan Mohanty, Prof. and Head Institute of Applied Science and Humanities, GLA University, U.P., on 30 Sept. 2021

A webinar entitled ‘India’s Northeast: Past, Present and Future’ by Dr. Angomcha Bimol Akoijam, Prof., Centre for the Study of Social System, SSS, JNU, on 14 Sept. 2021

A webinar entitled ‘Women Empowerment: Stree Shakti’ by Prof. Geeta Sahare, President, Delhi University Women’s Association on 24 Sept. 2021



Conferences Organised

International Conference on 'Emerging Issues in Business and Economic Research' on 17 Dec. 2021, Department of Commerce, Rajdhani College

Vice-Chancellor's Conclave on "National Education Policy 2020: Its Implementations, Opportunities and Challenges", 16 July 2021, Department of Commerce, Rajdhani College

An online Workshop (3 days) on "Designing and Development of e-Resources for Teaching and Learning", 24 June 2021, Department of Chemistry and Computer Science in collaboration, Rajdhani College.

National Conference (online) on "Covid 19 and its Psychological Effects" on 30 April 2021, Department of Chemistry, Rajdhani College.

Two-day International Conference (online) was organised on the theme "Rethinking Science for Sustainable Development" on 20 April 2021, Department of Chemistry, Rajdhani College

Seminar/Conference Presentations

Azad, S.K, "Covet Communication using Tunable Q-factor Wavelet Transform" IAET- 2022 on 26 2022, March 26 Jaipur National University.

Giri, Rajesh. "DFT approach to study Solvation of 3-Phenyl coumarins using IEFPCM Mode, I" IX International Conference on Advance Research and Innovation, from 2022, March 04-05 Chandigarh University, Punjab.

Singh Anshika. "Role of Digital Marketing in Developing Economy of India" VISION 2070: Achieving Sustainability through Management and Technology on 06 February 2022, Asian School of Business International Conference Arora, Urvashi. "Numerical Optimization," Conference on Innovation and Application in Science and Technology (ICIAST-2021), Department of Applied Sciences, from 2021, December 21-23 Galgotias College of Engineering and Technology, Greater Noida.

Agarwal, Megha. "Did Micro-Finance Pass the Covid Litmus Test? An Empirical Analysis from Women Borrowers' Perspective based on Jammu and Kashmir " Emerging issues in Business and Economic Research, from 2021, December 17-18 Rajdhani College, University of Delhi.

Garg Bhoomika. "Behaviour of Individual Investors on Mutual Fund" in Emerging Issues in Business and

Economic Research from 2021, December 17-18 International Conference, Department of Commerce, Rajdhani College, University of Delhi.

Shukla, V.M. "Rereading Violence and Trauma Narratives in Narendra Mohan's Long Poems," Narratives, Self, and Identities: Traditions and Innovations from 2021, August 30-31) by AH&SS, REWA, University Bengaluru (India), ISPELL, and Liverpool John Moores University, Liverpool, England.

Shukla, V.M. "From Marginalization to Rediscovery: Issues of Art and Aesthetics in G. Kalyan Rao's Untouchable Spring," Writings from the Marginalised: Nature and Scope on 2021, July 14 Department of English, Government PG College, Naraingarh, Ambala.

Shukla, V.M. "Indian Classical Literature and/in the English Studies," Centres and Margins: Origin, Conflicts and Issues from 2021, June 25-27 Department of English and Dept of Bengali, Panchla Mahavidyalaya in association with IQAC of the College, and IQAC, Puras Kanpur Haridas Nandi Mahavidyalaya, West Bengal.

Yadav, Sharmila. "Physio-Chemical Investigation of Commercially Available Honey" Rethinking Science for Sustainable Development in two days International Conference from 2021, April 20-21 Department of Chemistry, Rajdhani College, University of Delhi.

National/International MoUs Signed

Dr. A. P. Singh and Dr. Dheeraj Kumar Department of Physics and Electronics, Rajdhani College (University of Delhi) signed NDA Agreement with Sivers Wireless AB, Sweden, on 25 Feb. 2022. In this agreement, the company would provide 5G NR RFIC and technical support to develop a 5G base station antenna system for the n261(28 GHz) band.

Other Inter-Institutional Collaboration

Vidya Vistar Scheme for which Rajdhani College has collaborated with three colleges in Assam and Odisha, namely B.N. College, Dhubri, Assam, Sonapur College of Guwahati University, Sonapur, Assam and Darwin Memorial Degree College of Berhampur University, Kudumulugumma, Malkangiri, Odisha.



The Placement Details

65

The Number of Companies Visited for Campus Recruitment

In 2021-22, more than 200 companies got on board with the Placement Cell, out of which more than 100 companies offered internships, about 60 offered alumni placements and about 40 offered placements for final-year students. This time more than 65 students got selected out of the pool of candidates. The recruiters offered various profiles ranging from Market Research, Digital Marketing, Actuarial Analyst, Copywriting, Finance, and Insurance Advisor. Four students of the College from the final year (Batch 2022) got selected for the placement opportunity by Tresvista, one student got placed in Willis Tower Watson and another got placed in Upgrad. A 3-day event 'A Road to Corporate - The Placement Preparation Series' was organized in November 2021. The Placement cell also organized its Annual Internship Fair- AVSAR 3.0 on 10-11 March 2022 in virtual mode. The internship fair received massive footfall and about 700 registrations from students of different colleges across India. There were about 50 companies on board offering around 55 different profiles.

Extension and Outreach Activities

The Social Welfare and Youth Development Society (YUVA) along with the NSS unit of Rajdhani College established a Help Desk during COVID-19 to help patients with oxygen cylinders, ventilators, medicines, and food supplies. A mass Vaccination Drive was organised in July to encourage people to get vaccinated and get various wrong myths busted about vaccination. It also started a food Donation Drive in July for the underprivileged and a donation drive "MUSKURAHAT 3.0" where volunteers donated things in an orphanage to spread happiness. It started another helpdesk under the campaign "WE4 VACCINE" to sort any queries related to vaccination and help people find the nearest vaccination centre around Delhi. To help the underprivileged children who missed out on studies and school during the Pandemic, the YUVA volunteers started another educational drive "SHIKSHAN" which was an offline teaching programme to bridge the gap between school and them. The NSS society also organised various cleanliness drives and donations of winter clothes and books for the underprivileged. Undeterred by the unprecedented times in which

teaching and learning shifted online, the College has managed to uphold its commitment to excellence and through many innovative and creative ways kept the university ethos alive.

Various departments in the College were engaged in organising webinars, workshops, and lectures on issues of health, environment, education, methodology, and subject-related topics. Similarly, the various societies and committees truly made the best of the times. Physical Education Department/Committee conducted a Value-Added Certificate Course of one-week duration on "Disaster Management" in collaboration with Delhi State Bharat Scouts and Guides under the aegis of IQAC from 13 to 17 August 2021. Neutronics Society, Department of Physics and Electronics, organized Dr. S.S. Rao Memorial Lecture (Webinar) on the topic "Nanotechnology" on 8 November 2021. Under the aegis of the Cultural Committee, a National Seminar on "Culture Matters" was organised in which the honourable Vice-Chancellor Prof. P.C. Joshi was the chief guest and esteemed Prof. Balaram Pani, the Dean of Colleges graced the event as the Guest of Honour. The Counselling Cell, keeping pace with the spirit of progress and excellence, organised a 'National Webinar on Careers in Law' on 11 November 2021 with the objective to offer much-needed career counselling in the field of law to the undergraduate students.

Chaitanya, the Debating Society, organised an intra-college debate competition, "Nishtha" on the topic, "Climate change can be resolved without discarding economic growth" on 25 February 2022 and the academic session ended with the event, Vichar Manthan, a national level debate competition, held on 9 April 2022.

Dadhichi together with Gandhi Study Circle organised a two-day event "मजबूती का नाम महामा गांधी Gandhi@2k21" where various competitions for debate, essay writing, poetry and letter to Gandhi were organised to mark the occasion of the 152nd Gandhi Jayanti. This event was graced by the Dean of Colleges, Prof. Balaram Pani.

The E-Cell also hosted one of the biggest fests in the Delhi University circuit which was a two-fold event comprising leading entrepreneurs and business experts- EXILR'22 on 4-5 March 2022.



Gandhi Study Circle, organised a camp “Pattikalyana Yuva Shivir” with the objective to influence the young generation of India with the Gandhian thoughts. It organised another camp Bajju (Bikaner camp) which was organised by Urmul Seemant Samiti. The camp’s main aim was to focus on the role of youth where students interacted with rural people and understood resource management. NCC Cadets volunteered in AAPDA MITRA SCHEME of the National Disaster Management Authority in June 2021. A tribute ceremony in hybrid mode was organised on the college campus to pay homage to martyr, CDS Bipin Rawat and other accompanied soldiers who died in a chopper crash on 10 December 2021. On the eve of the Republic Day 2022, the National Flag was unfurled in the College and the students took a pledge to be honest, and youth voters as a part of the campaign of the National Voter Awareness Programme. International Day of Yoga was celebrated on the college campus on 21 June 2021 where everyone pledged to encourage and integrate yoga into their lives. An online webinar on “Women Empowerment: Stree Shakti”, was organized on 24 September 2021 to address women’s issues and empowerment. “Fit India Freedom Run” was organised on 20 October 2021 in joint collaboration with NSS where cadets ran for 5km in the college sports ground.

NSS has also contributed much to Covid efforts in the form of vaccination camps, help desks etc. It organised blood donation camps and observed events like National Girl Child Day, pledge taking ceremony based on the theme “Making Elections Inclusive, Accessible and Participative” to celebrate the 12th edition of the National Voters Day. It organised a Fruit Donation Drive, and Cleanliness Drive in collaboration with the office of District Magistrate, West Delhi under Swachhta Pakhwada, The NSS unit also organised a mega vaccination walk-in camp in the month of October. In January a plantation drive was also organised under the name “Kudrat” Tasveer. The Photography Club, organised a one-day online National Webinar on Photography entitled ‘The Art of Photography and its Career Prospects’ on 12 August 2021.

Women Development Cell, observed the month of October as “Breast Cancer Awareness Month” also called as the ‘Pink Month’. The biggest and most celebrated achievement of WDC for the academic year 2021-22 was the coming together of its first

magazine ‘CHITRANGDA’. WDC also organised ten days of self-defence training classes in collaboration with Delhi Police for two weeks in March-April. Antarman, the Yoga and Meditation Committee organised a one-day workshop on the topic 'Power of Positivity in Adversity' in celebration of Azadi Ka Amrit Mahotsav on 3 September 2021 through Zoom platform.

YUVA, the Social Welfare and Youth Development Society, has done notable work in the Covid period to reach out to society through various drives, helpdesks and awareness programmes etc. The members arranged for study materials and sent them to students who could not access classes and materials due to their location and the digital divide. It organised a two-week visit to old age homes in February under the campaign “SADBHAV 4.0”. It conducted a webinar on the “Contribution of Tribals in Indian Independence” to mark the occasion of 15th August 2021 as well as various seminars on issues ranging from youth development to intellectual property rights awareness programme.

Library Development

Books purchased: 1854
The Library has more than 1.35 lakh scholarly books on various subjects and subscribes to 33 newspapers and around 60 periodicals. It is a member of the N-List program of the UGC INFONET, through which the users of the library can access about 6000 e-journals and more than 31,35,000 e-books with a remote login facility.

An exclusive reading corner has been introduced for differently-abled students and teaching staff, where Braille books, internet-enabled four high-speed computers with a scanner and printer are made available for them. The college library also provides in-house reprography services to its users.

A two-day Book Exhibition was organised by the Library Committee under the Azadi Ka Amrit Mahotsav on the theme "Gandhi and his life".

Faculty Strength

Permanent: 87
Adhoc: 69

Financial Allocation and Utilization

(a.) Rs 64,36,57,000/-
(b.) Rs 64,36,57,000/-

RAJKUMARI AMRIT KAUR COLLEGE OF NURSING



Brief History

Rajkumari Amrit Kaur College of Nursing is a pioneer institute for nursing education in India and the South East Asian region offering basic and higher education programmes. It is controlled financially by the Ministry of Health and Family Welfare and academically affiliated with the University of Delhi as the Department of Nursing under the Faculty of Science. The College was established in 1946 and initially the B.Sc. (Hons.) nursing programme was formulated to train young women as professional nurses for meeting the health needs of the country. In 1959, the University approved the initiation of two years Master of Nursing programme. M.Phil. in Nursing was started in 1986 as a foundation course for undertaking doctoral work and in the year 1992, the Doctoral programme in nursing was started under the Department of Nursing, University of Delhi. Besides the regular academic programmes, the College also conducts short-term courses for nursing personnel through the Department of Continuing Education. The College is in process of being established as a 'Centre of Excellence in Nursing by the Ministry of Health & Family Welfare. The College worked as the sub-recipient for the GFATM (Global Fund for AIDS, Tuberculosis and Malaria) project under INC.

Major Activities and Achievements

Rajkumari Amrit Kaur College of Nursing has been providing quality nursing education for the last 76 years. The College offers regular programmes i.e., B.Sc. (H) Nursing, M.Sc. Nursing. The revised curriculum for both B.Sc. (H) Nursing and M.Sc.

Nursing under the semester system is running. The College is nominated in collaboration with MOHFW to train the master trainers for "National Emergency Life Support for Nurses". Rural Teaching Centre at Chhawla village under RHTC Najafgarh for the purpose of providing objective-oriented community health experience and continued functioning during the COVID-19 pandemic also college is designated as a study centre by IGNOU. College participated in various programmes like National Organ Donation Day, World Kidney Day, Perfect Health Mela both physically and online etc. The College is in close association with the Ministry of Health and Family Welfare and with various hospitals, Health Centres and allied agencies.

Honours/Distinctions

Award of Excellence on national voluntary blood donation day on 1 October 2021 by AIIMS New Delhi. Award of Special Contribution for Swachata Pakhwada by National Institute of T.B & Respiratory Diseases, Mehrauli New Delhi.



Students with Distinctions

S.No.	Name of Student	Class
1	Ms Aswathy MU	M.Sc. Nursing 1st Year
2	Mr Pankaj Yadav	M.Sc. Nursing 2nd Year
3	Ms Shivani Bhatt	B.Sc. (H) Nursing 4th Year
4	Ms Bincy Rose Benny	B.Sc. (H) Nursing 3rd Year
5	Ms Alcina Mary Abraham	B.Sc. (H) Nursing 2nd Year

Publications

Thomas Daisy (Reviewer). (2022). Text Book of Nursing Foundations.

Research Projects

2021-22, A study to evaluate the effectiveness of planned teaching programme on autism and its early identification in terms of knowledge and attitude of preschool teachers in selected private schools of Delhi., NA. PI: Madhumita Dey.

Seminars Organized

A Seminar entitled “Role of Community Health Nurse in prevention and management of Breast Cancer”, ASOMACON, on 13 Nov. 2021 by Sarita Shokandha, Assistant Prof..

A Seminar entitled “Pre-operative Nursing in Mastectomy”, ASOMACON, on 13 Nov. 2021 by Madhumita Dey, Assistant Prof..

A Seminar entitled “Hepatitis in pregnancy under Project PRAKASH”, PRAKASH - ILBS, on 01 Feb. 2022, by Anugrah Milton, Tutor.

A Seminar entitled “Prevention of complications and rehabilitation of a patient on post-mastectomy”, ASOMACON, on 13 Nov. 2021 by Usha Phulara, Tutor.

A Seminar entitled “Rhythm of labour: Physiology of Normal Labour and Encouraging Normal Physiological process of Birth”, CNE, SJH, on 02 May 2022 by Geeta Saifi, Tutor.

Conferences Organized

“Trauma Nursing, A multi-disciplinary approach”, on 14 March 2022, DGHS

Seminar/Conference Presentations

Development of National Emergency Life Support course for nurses

National/International MoUs Signed

MoU between MoHFW (since 12 March 2018)

Other Inter-Institutional Collaboration

The Rural Teaching Centre was established in 1950 for the purpose of providing an objective-oriented Rural Community Health experience to the students. It covers a population of approximately 23,000 and it is situated 35 km away from the College. The centre provides an integrated comprehensive health and family welfare service to the community. Special emphasis is given to MCH Services, Family Planning, Immunization, Family Welfare Services, Nutrition, Adolescent Girls’ Health and Health Education programme by the students and staff of the rural unit in collaboration with the staff of RHTC, Najafgarh. Staff and students also participated in National Health Programmes like the Malaria control programme, Dengue control programme, Revised National Tuberculosis Control Programme; AIDS, Diarrheal disease control and intensified pulse polio programme. The centre also has a DOTS and Microscopic centre for screening and treatment of T.B & MDR. T.B patients. RFTC Chhawla is also a “Team Movement Point “for National Pulse Polio Programme covering 10 villages. The TMP is considered is one of the best TMP under the Matiala Zone for Pulse Polio Programme.

Financial Allocation and Utilization

Rs.34,15,00,000/- (Rupees Thirty-Four Crore Fifteen Lakh only)

Rs. 22,86,56,469 (Rupees Twenty-Two Crore Eighty-Six Lakh Fifty-Six Thousand four hundred sixty-nine only)

RAMANUJAN COLLEGE



Brief History

Ramanujan College, formerly known as Deshbandhu College (Evening) was established in 1958 by the Ministry of Rehabilitation, Government of India, in the memory of Late Lala Deshbandhu Gupta, a patriot who had dedicated his life to the national freedom struggle. Deshbandhu College (Evening) operated from the premises of the Deshbandhu College that functioned in the morning hours. It became a co-educational institution in 1994. The College is 100% funded by the UGC and has been maintained by the University of Delhi since 1972. In 2010, the College got a new identity when the University of Delhi along with UGC and MoE (erstwhile MHRD) renamed Deshbandhu College (Evening) as Ramanujan College, and allocated separate space of seven acres of land in Kalkaji, New Delhi. From an evening college, it became a full-fledged morning college in 2012. Initially, the College offered only six undergraduate courses, namely, B.Com., B.A. Programme, B.Com. (Honours) and B.A. (Honours) in English, Political Science, and Hindi. In the last decade, College has added ten more courses, namely: B.A. (Honours) in Applied Psychology, Philosophy and Economics; B.Sc. (Honours) in Statistics, Mathematics, Computer Science and Environmental Science; Bachelor in Management Studies; and B. Voc. in Banking Operations and Software Development.

Major Activities and Achievements

The College has pioneered blended teaching-learning with an efficient in-house Learning Management System (LMS) hosted on the Cloud Infrastructure

installed within the college premises. A total of 144 programmes (FDP/FIP/RC/Workshops/Conferences) have been conducted by the Teaching Learning Centre (TLC), Ramanujan College under the coveted scheme of Pandit Mandan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), sponsored by the Ministry of Education from April 2021 to March 2022 and trained about 50,000 participants pan India. As per the PMMMNTT portal, Ramanujan College is the second institution in the country imparting quality training with the maximum number of beneficiaries across India.

The College has signed 48 National MoUs with colleges/universities for conducting collaborative Faculty Enrichment Programmes. Moreover, the College has entered into MoU with 4 International Foundations.

Twenty-two faculty members were felicitated (with a certificate and cash awards) by IQAC Ramanujan College for publishing research papers in SCOPUS and Web of Sciences indexed journals on 8 July 2021, amounting to a total of Rs. 3,80,000.

Recently, the College has been accredited with A++ Grade (CGPA 3.71) by NAAC in its second cycle. Currently, Ramanujan College is the top-most institution of the University of Delhi in terms of CGPA as awarded by NAAC.

Honours/Distinctions

Dr. Arnav Kumar Assistant Prof., Department of Management Studies was awarded the "INDO ASIAN Teaching Excellence Award 2021 in Finance &

Investment” and the “Dr. Sarvepalli Radhakrishnan Best Faculty Award 2021 in Management Studies.”

Dr. Alok Ranjan Pandey, Associate Prof., Department of Hindi was felicitated with “Vishwa Ram Sanskriti Sammaan” by Sahityik Saanskritik Shodh Sanstha and Uttar Pradesh Mandal of America, California (UPMA) on 30 November 2021.

Dr. Divya Bhanot, Assistant Prof., Department of Applied Psychology received the “Best Research Proposal Award with US Dollars 100” from the Asian Association of Social Psychology for a Research Proposal Presentation on the topic “Effects of Perceived Social Distance on Stigmatizing Attitudes towards COVID-19 Infected: The Mediating Role of Construals” during 26-28 July 2021.

Vipin Rathi, Assistant Prof., Department of Computer Science was elected as Vice-Chair and Individual Board of Director for the Open Infrastructure Foundation Board. He is the only member of the board who has been selected from India.

Prof. S. P. Aggarwal, Principal was felicitated with the “Special Appreciation Award (College Principal in Service)” on the 99th Foundation Day of the University of Delhi.

Students with Distinctions

S.No.	Name of Student	Class
1	RITIK RAJ SRIVASTAV	B.Sc. (H) Mathematics
2	NITAI BHASIN	B.Sc. (H) Statistics
3	DEEPAK KUMAR RAI	BMS
4	ASTITVA KHANDELWAL	BA (H) Economics
5	KSHITIJ GIRDHAR	BA (H) Applied Psychology

Publications

Kumar V. (2021). Littlewood–Paley Conjecture for Certain Classes of Analytic Functions. *Bulletin of the Iranian Mathematical Society*, 47(2), 505 - 522.

Tiwari, D. N. (2021). Personality and Value Preference as Predictors of Social Well-being. *Journal of Human Values*, 27(2), 161 - 174.

Raghuvanshi, K., and Kumar S. (2021). Development of a New Encryption System using Brownian motion-based diffusion. *Multimedia Tools and Applications*, 80(14), 21011 - 21040.

Pandey, A.P. (2021). Optimality of Ratio-Type Imputation Methods for Estimation of Population Mean Using Higher Order Moment of an Auxiliary

Variable. *Journal of Statistical Theory and Practice*, 15(2), Article number 48.

Paul, M. (2021). Learners’ perspective towards e-exams during the covid-19 outbreak: Evidence from higher educational institutions of India and Saudi Arabia. *International Journal of Environmental Research and Public Health*, 18(12), Article number 6534.

Maurya, S.K. (2021). The Concept of Justice in Reference to Philosophies of Plato and Aristotle: A Critical Study. *Journal of Liberty and International Affairs*, 7(3), 250 - 266.

Kumar B., Tomer, S., and Shukla, A.K. (2021). Sensitivity analysis of non-conformities when the quality standard is assumed as a random variable. *International Journal of Agricultural and Statistical Sciences*, 17(2), 783 - 789.

Tomer, S. (2021). On the reliability estimation of multicomponent stress–strength model for Burr XII distribution using progressively first-failure censored samples. *Journal of Statistical Computation and Simulation*, 92(4), 667 - 704.

Kumar V., and Nagpal, S. (2022). Coefficient functionals for non-Bazilevič functions. *Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales - Serie A: Matematicas*, 116(1), Article number 44.

Nisha, Z. (2022). The Medicalisation of the Female Body and Motherhood: Some Biological and Existential Reflections. *Asian Bioethics Review*, 14(1), 25 - 40.

Journals

Editor in Chief: Prof. S. P. Aggarwal (Ramanujan College) and Prof. Deepak Khazanchi (University of Nebraska, Omaha, USA) Editors: Prof. Gabriel Simon Thattil (University of Kerala), Prof. K. Latha (Ramanujan College) and Dr. Vibhash Kumar (O.P. Jindal Global University, Sonipat) Managing Editor: Dr. Arnav Kumar (Ramanujan College). (2021). *Ramanujan International Journal of Business and Research (RIJBR)*. Annual, 6(1), 1-155

Editor-in-chief: Prof. S. P. Aggarwal (Ramanujan College) Consulting Editor: Prof. Girishwar Misra (Former Vice Chancellor, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha (Maharashtra) Guest Editor: Dr. Vibhash Kumar (O.P. Jindal Global University, Sonipat) Editor: Dr. Anumita Shukla (Ramanujan College) Managing Editor: Dr. Sooraj Kumar Maurya (Ramanujan College). (2022).



International Journal for Applied Ethics (IJAE). Annual, 7(1), 1-141

Research Projects

PMMMNMTT, Ministry of Education, 2021, Hindi aur Shetriya Bhashaon mai Antar Sambandh, 10 Lakh.

Seminars Organized

Seminar on "Research and Data Analysis" on 25 Sept. 2021, by Prof. Damodar Suar, Chairman of Social Sciences Research KIIT University Bhubaneshwar and former Prof. at Department of Humanities and Social Sciences, IIT Kharagpur, Writing a Publishable Manuscript.

Seminar on 'Philosophical Foundation of Information Ethics, Applied Philosophy – Some Contemporary Issues', on 30 Oct. 2021, by DR. Ayesha Gautam, Assistant Prof., Department of Philosophy, University of Delhi.

Seminar on 'Democracy and the Political Agency: A Subaltern Perspective', International Democracy Day, 2021, on 20 Sept. 2021, by Dr. Sajjan Kumar Researcher at People's Pulse, Political Analyst and Writer, Former Academic Consultant with the Ministry of Culture, Government of India.

Seminar on 'Power Domination Problem, Recent Trends in Domination and Graph Labelling', held on 27 May 2021, by Prof. Ambat VijayKumar from Cochin University of Science and Technology, Kerala.

Seminar on 'Mental Health in an Unequal World, Women Leadership: Achieving an Equal Future in COVID-19 World', held on 11 Oct. 2021, by Snigdha Mishra, Psychotherapist, Founder- Life surfers and Founding member of Bhartiya Counselling Psychology Association and Let's Talk.

Conferences Organized

Two-day National Conference on "Advanced Statistics & Applied Sciences" on 30 March 2022, UGC.

International Conference on "Rethinking New Work Order: A Policy Change Initiative" on 21 Jan. 2022, PMMMNMTT, Ministry of Education.

Two-day National Conference on "The Rising Era of Entrepreneurship: Discover an Entrepreneur and Skill Enhancement" on 24 March 2022, UGC.

Two-day National Conference on "Vaishwik Sahitya mai Ram" on 28 March 2022, UGC.

Seminar/Conference Presentations

Sonia Mudel, Assistant Prof., Department of Commerce presented a paper entitled "Financial

Distress, Corporate Governance and Fraud: A review and research agenda" in One Day National E-Conference on "Emerging Trends in Accounting" on 2021, October 29 organized by GITAM Hyderabad Business School.

Charu Jain, Assistant Prof., Department of Commerce presented a paper entitled "Consequences of Indian Accounting Standards (Ind-AS) adoption: Suggestions for Further Research" at the International Conference on "Innovations and Sustainable Practices in Commerce, Management and Social Sciences: Future Prospects and Challenges" during 2021, June 04-05 organized by Maniben Nanavati Women's College Mumbai, Maharashtra.

Rajiv Nayan, Assistant Prof., Department of Commerce presented a paper entitled "Green cloud accounting, perception of employees by Information Technology Companies: A special study of Delhi NCR" at the IIF International Research & Award Summit 2021 from 27 November-2 December 2021 organized by Indian Institute of Finance, Greater Noida.

Arun Agarwal, Assistant Prof., Department of Computer Science presented a paper entitled "ECG-based Arrhythmia Multi-Classification Model using a Deep CNN for Healthcare" at the Conference on IoT for Rural Healthcare (CIRH 2021) IEEE Conference on 2021, December 18 organized by the Institute of Electrical and Electronics Engineers.

Pratima Singh Assistant Prof., Department of Applied Psychology, presented a paper entitled "Alpha and theta oscillations in frontal, temporal and occipital lobes of the cortex while processing cognitive load" at the 47th National Annual Conference of Indian Association of Clinical Psychologists (Indian Association of Clinical Psychologists and Department of Psychiatry, AFMC) during 2021, May 28-30 organized by Armed Forces Medical College, Pune.

Aanchal Singh Assistant Prof., Department of Commerce and Management Studies, presented a paper entitled "A study on 'HRITHIK' stick and check whether 'HRITHIK' stocks carry some prediction power in the movement of the stock market during and before pandemic 2020 or not" in the International E-conference on advances in Business and Management during 2022, January 20-21 organized by Shaheed Bhagat Singh College, University of Delhi in collaboration with Department



of Commerce, Delhi School of Economics and University of Beira Interior, Portugal.

Ajay Kumar Associate Prof., Department of Political Science presented a paper entitled “Social Perception Towards Caste Identity and Sustainable Development: An Analytical Study of Delhi” at the Virtual National Conference on “Sustainable Business Development Post Covid-19 organised on 2021, April 03 by Punjab Institute of Management and Technology (Affiliated with IKG Punjab Technical University, Jalandhar).

Suman Jaiswal, Assistant Prof., Department of Statistics, presented a paper entitled “Stochastic Model Analysis of a Noodles Manufacturing System” in the National Seminar on Various Content Trends in Research Methodology (Advanced Research Institute for Development of Social Science (ARIDSS), Meerut) on 2021, December 19 organized by Research Development Cell Kanohar Lal Post Graduate Girls College, Meerut.

Sonia Mudel, Assistant Prof., Department of Commerce presented a paper entitled “Financial Distress, Corporate Governance and Fraud: A review and research agenda” at the 1st International Conference on “Emerging Issues in Business and Economic Research” during 2021, December 17-18 organized by Department of Commerce, Rajdhani College, University of Delhi.

Charu Jain, Assistant Prof., Department of Commerce presented a paper entitled “Measuring the effects of Indian Accounting Standards on the Quality of Accounting Information of Indian Companies” at the International Conference on Managing Inflection in Changing Landscape: Through Technological Innovations on 2021, April 24 organized by Institute of Management Studies, Ghaziabad.

National/International MoUs Signed

International MoUs with Magma Core Foundation, USA; Next-Arch Foundation, USA; TARS Foundation, USA; and OpenInfra Foundation, USA

MoU with (1) Government Degree College, Poonch, Jammu & Kashmir; (2) Sibsagar Girls' College, Sivasagar, Assam; (3) Ajintha Education Society's Pandit Jawaharlal Nehru Mahavidyalaya, Aurangabad, Maharashtra for organizing Online Induction Training/ Orientation Programme for

Faculty in Universities/Colleges/Institutions of Higher Education from 16 April 2021 to 15 May 2021.

MoU with (1) St. Thomas College (Autonomous), Thrissur, Kerala; (2) Kohima Science College, Jotsoma, Nagaland; (3) Government Degree College, Baramulla, Jammu & Kashmir; 4) Sardar Patel University, Anand, Gujarat; (5) Gandhi Vocational College, Guna, Madhya Pradesh for organizing Online Induction Training/ Orientation Programme for Faculty in Universities/Colleges/Institutions of Higher Education from 18 May 2021 to 17 June 2021.

MoU with (1) Hemvati Nandan Bahuguna Garhwal University, Uttarakhand; (2) Harish Chandra Post Graduate College, Varanasi, UP for organizing Online Two-Week Refresher Course in Physics from 27 Oct. 2021 to 10 Nov. 2021.

MoU with (1) Tilak College of Education, Pune; (2) Ashutosh Mukhopadhyay School of Educational Sciences, Assam University, Silchar for organizing Two Week Refresher course in Education from 17 Jan. 2022 to 01 Feb. 2022.

MoU with (1) SST College of Arts & Commerce, Maharashtra; (2) Hindu College, Moradabad, Uttar Pradesh for organizing Online Induction Training/ Orientation Programme for Faculty in Universities/Colleges/Institutions of Higher Education from 15 Feb. 2022 to 16 March 2022.

MoU with Open Technology Forum; Telecom Sector Skill Council; MAGMA, India for organizing online one-week Faculty Development Programme on DTC Transformation Data Centers, Teleco, Communication from 21 Feb. 2022 to 28 Feb. 2022.

MoU with Himmat Vidyanagar Shri Trikambibhai Chatwani Arts & J.V Gokal Trust Commerce College, Radhanpur, Gujarat for organizing One-Week Faculty Development Programme on E-Learning & E-Governance from 21 Feb. 2022 to 27 Feb. 2022.

MoU with Department of Zoology, PSGR Krishnammal College for Women Coimbatore, Tamil Nadu for organizing Online Two-Week Refresher Course in Zoology from 15 Dec. 2021 to 29 Dec. 2021.

MoU with Indira Gandhi National Centre for the Arts, Ministry of Culture, Government of India for organizing Online One-Week Faculty Development Programme Digital Humanities from 23 Dec. 2021 to 29 Dec. 2021.

Other Inter-Institutional Collaboration

The College has signed 48 National MoUs with colleges/universities for conducting collaborative Faculty Enrichment Programmes. Some of the institutions include: Miranda House College,



University of Delhi; The Write House, New Delhi; Sameer Gandhi Kala Mahavidyalaya & Commerce & Science College, Solapur, Maharashtra; Indian Accounting Association, NCR Chapter, New Delhi; Army Institute of Education, Delhi; Academia International College, Nepal; University of Jammu, Jammu & Kashmir; SNJB's KKHA Arts, SMGL Commerce & SPHJ Science College, Nashik, Maharashtra; Shaheed Bhagat Singh College (Eve), University of Delhi; Shri Shankarlal Sundarbai Shasun Jain College for Women, Tamil Nadu; Sree Narayana Guru College of Commerce, Mumbai; Deshbandhu College, University of Delhi; S.S Jain Subodh P.G. College, Jaipur; Kirori Mal College, University of Delhi; Academy of Discrete Mathematics and Applications (Adma); Ashutosh Mukhopadhyay School of Educational Sciences, Assam University, Silchar; Janki Devi Memorial College, University of Delhi; Satyawati College (M), University of Delhi; Department of Mass Communication, Telangana University; Catholicate College Postgraduate & Research Department of Botany Pathanamthitta, Kerala; Shaheed Sukhdev College of Business Studies, University of Delhi; M.O.P Vaishnav College for Women, Chennai, Tamil Nadu; Davangere University, Karnataka; Rajdhani College, University of Delhi; Nirmala College, Muvattupuzha, Kerala; Lakhimpur Girls College, Assam; St. Xaviers College, Ranchi, Jharkhand; Eastern Karbi Anglong College, Assam; P.E.S Modern Law College, Pune; CMS College (Autonomous), Kottayam, Kerala; Sree Narayana College, Nattika, Kerala; Khalsa College, Amritsar, Punjab; and St. Jude's College, Thoothoor, Tamil Nadu.

The Placement Details

254

72 %

Number of Companies Visited for Campus Recruitment

A total of 84 companies visited the institution for campus recruitment. During the last five years, the average package of the placed students improved from 2.2 LPA to 4.78 LPA. Two notable placements are of (1) Shubham Mishra, a student of B.Sc. Computer Science (Batch 2021) who secured an INR 45 LPA Placement in Microsoft; and (2) Aditya Banerjee, a student of B.Sc. Statistics (Batch 2021) who secured a Placement of INR 19 LPA in De Shaw. In addition, the Placement Cell of the College organized Job & Internship Fair - Aarambh 2.0 on 9

April 2021, which took place in both online and offline modes on the college premises for both participants and companies. A total of 2519 students showed interest in the job/internship fair AAARAMBH 2.0, with 572 students from different parts of the country including Delhi, Haryana, Uttar Pradesh, Rajasthan, Punjab, visiting the College premises and a total of 1243 students participating online. A total of 35 companies participated in the fair, out of these 17 offered jobs to graduates/in their final year of graduation and 18 companies offered internships. Top-notch companies like Paytm, Tech Mahindra, ICICI Prudential, Chola Mandalam, NIIT, NTT Data, Kaveri Infotech, Skywalk, IGT Solutions, and others offered jobs while companies like CL Educate, Total solutions, Hareen, Virtual Cyber Labs, and others offered internships.

Extension and Outreach Activities

Ramanujan College signed a five-year MoU with Rupantaran NGO on 22 October 2021 to work towards the upliftment of the people of the coolie camp and arrange for sanitation, hygiene, clean drinking water and other related facilities at the Coolie Camp.

Ramanujan College entered into a three-year MoU with Merino Industries, Hapur, Uttar Pradesh on 24 September 2021 who are world leaders in the manufacturing of decorative laminates and have diversified interests in agro-industry in the manufacturing of high-quality potato mash named Vegit. Merino industries have initiated a number of highly effective programmes for environmental protection. They are also engaged in providing high-class education to economically deprived and socially marginalized students through the Swami Vivekananda Arunodaya Vidyalaya. This mutually beneficial academy-industry partnership seeks to provide the teachers and the students of Ramanujan College with a first-hand interactive experience of the industry and its environmental and social concerns. It provides opportunities for meaningful interactions where the College will provide academic and infrastructural support to the teachers and students of the Swami Vivekananda Arunodaya Vidyalaya and also adopt some of the environmental programmes of the Merino industries.

There has been an Introduction to Student Group Health Insurance and Personal Accident Insurance Scheme. Ramanujan College is the only college in the

University of Delhi to have an insurance scheme for all the students, with an annual premium of Rs. 20 Lakh.

The meaningful and quality content created in TLC programmes can be accessed freely via the Official YouTube Channel of Ramanujan College, which has more than 29,800 subscribers and 1,10,00,000 views.

The College also took the initiative to help mankind during the Covid by delivering subsidized food to people in need in Kalkaji and nearby areas. The food was prepared with due diligence and all safety protocols were taken care of while delivering the food.

The Pet Club of Ramanujan College organized a webinar on “Need for Stringent Laws for Animal Abuse” on 30 April 2021. NSS Ramanujan College organized a series of webinars on socially relevant issues of the society during the whole year, some of them are: (1) “Eliminating Mental Stress” on 4 May 2021; (2) “Cancer Prevention & Palliative Care” on 8 July 2021; and (3) “Swami Vivekananda’s Message to the Youth” on 12th January 2022. NSS also organized a winter clothes collection and distribution drive during 22-25 November 2021.

The outreach programme committee of the College organized National Outreach Week 2021 (19-23 April

2021) with the slum children: Screening of the movie, “The Prestige” on 19 April 2021; Art and Craft session, with the activity of “Making Hanging Yarn Ball” on 20th April 2021; Flora and Fauna Drive on 21 April 2021, with volunteers and children sharing pictures of them planting a tree or feeding stray animals; talk Session on “Civil Service as a Career” on 22 April 2021, conducted by Mr Gaurav Shukla (IRS Officer and IIT BHU Alumni); and Virtual interactive session on “Life skills for underprivileged children” on 23 April 2021, conducted by Miss Nida Hassan (Counselling psychologist, EVGC at Directorate of Education, Delhi).

Library Development

D-SPACE has been added to the college library with version 6.3. The use of RFID in the college library has reduced the amount of time required to perform circulation operations. A Library webpage within the College website has been created, which is linked to all the e-resources subscribed to by the College.

Faculty Strength

126

Financial Allocation and Utilization

Rs. 346,100,000

Rs. 264,347,413

RAMJAS COLLEGE



Brief History

Ramjas College has emerged as one of India's major educational centres of excellence. Since its foundation, the College has been committed to giving all students, regardless of socioeconomic status, a high-quality education and working to impart principles like empathy, gender equity, environmental awareness, and professional ethics. The students continue to be an inspiration to us by winning awards in academics, athletics, and extracurricular activities.

Major Activities and Achievements

During the academic year 2021-2022, 24 Books/Chapter in Books and 153 Research Papers have been published; 8 Research Projects were awarded, 1 Patent filed, 3 Conferences Organized and 31 Seminars/Conferences were organised.

Honours/Distinctions

The 8th Stree Rashtriya (Shuchi Verma), Scientist of the Year Award 2021, was awarded by Indian Bravehearts NGO and Delhi News agencies at Vigyan Bhavan.

Students with Distinctions

S.No.	Name of Student	Class
1	Priyanshi Agrawal	B.Sc.(H)Physics
2	Nutan Sharma	B.Sc.(H) Chemistry
3	Paryul Jain	B.Sc.(H) Maths
4	Radhika Raj	B.Sc.(H) Botany
5	Kanak Goyal	B.Sc. (Physical Science)

Publications

Dixit, R., et al. (2021). Nanoengineered iron oxide-based sorbents for the separation of various water pollutants: current status, opportunities and future outlook. *Environ. Sci.: Water Res. Technol.*, 7(1), 818-860.

Kaur, H., et al. (2021). Candida Auris on Apples: Diversity and Clinical Significance. *MBIO*, 22(0518).

Singh M., et al. (2021). Improved electrochemical performance of nickel cobaltite/ multi-walled carbon nanotube composite as a hybrid electrode for supercapacitors. *Journal of Physics and Chemistry of Solids*, 154(110107), -.

Kumar S., et al. (2021). Base-Catalyzed Selective Deuteration of Alkynes. *ASEAN Journal of Organic Chemistry*, 10(9), 2365-2369.

Pal, M., et al. (2021). Blazar OJ 287 after First VHE Activity: Tracking the Re-emergence of the HBL-like Component in 2020. *Astrophysical Journal*, 921(1), 38-47.

Dixit, R., et al. (2021). Fabrication, functionalization and advanced applications of magnetic hollow materials in confined catalysis and environmental remediation. *NanoScale*, 13(1039), 10967-11003.

Dixit, R., et al. (2021). Magnetic metal-organic framework composites: structurally advanced catalytic materials for organic transformations. *Materials Advances*, 2(1039), 2153-2187.

Kumar A., et al. (2021). High energy (MeV) ion beams induced modifications in Al₂O₃-ZnO multilayer thin films grown by ALD and enhancement in photoluminescence, optical and structural properties. *Vacuum*, Elsevier Pub.110435, -(192), 7.

Goel, S. et al. (2021). Recent Advances in continuous flow synthesis of Heterocycles. *Molecular Diversity*, 021(10338), 1-10.

Journals

Saxena, Sanjana. (2021-22). *Ramjas Economic Review* (ISSN 2582-6093 Online). Annual, 1(IV), 1-190.

Research Projects

ICSSR, Govt. of India, 2020 till date, the Understanding special status of Jammu and Kashmir: A study of its impact on the upward mobility of SCs, STs, OBCs and minority Hindus since independence, Rs. 19,60,000/-

SERB, DST, Govt. of India, 2020 till date, Mathematical Modelling and Analysis of Socio-economic Phenomena from Complexity Science Perspective, Rs. 6,00,000/-

Department of Biotechnology, Govt. of India, 2018-2021, Remediation and Reclamation of Hexachlorocyclohexane (HCH) Dumpsite by using Microbial Bioremediation Technology, Rs. 16,80,000/-

Indian Council of Philosophical Research, Govt. of India, 2020 till date, Systematic Analysis and Approach to Neuro-Wellness Solution, Rs. 5,00,000/-
FRP-IOE, Delhi University, 2021-22, Tracing Genomic changes driven by recent Whole Genome Duplication event, Rs. 5,00,000/-



Seminars Organized

A Seminar titled, 'Torus and Toral Automorphisms, Mathematics', was organised on 04 Oct. 2021, by Prof. Tarun Kumar Das Prof., Department of Mathematics and Former Registrar, University of Delhi.

A one-day Seminar titled, 'What is NANO? Why NANO? How to see NANO?', PHYSICS, 31 Jan. 2022, by Dr. Suvankar Chakraverty, Head of Quantum Materials and Devices Unit, Institute of Nanoscience and Technology, 1.

A Seminar titled, 'Some Adhoc Mathematical Formulae from Ancient Times', Mathematics, organised on 17 Sept. 2022 by Prof. S.G. Dani, UM-DAE Centre, University of Mumbai Campus.

A Seminar titled, 'Youth Lifestyle Management during Covid- 19', Yoga, 12 Aug. 2022, by Dr. Rakesh Tomar, King Fahad University of Petroleum and Minerals, Saudi Arabia.

A Workshop Series on Life Skills, Life Skills, on 12 Sept. 2022, by Dr. Naveen Gulia, Ex-Army Officer. Conferences Organized

The 6th Annual International Conference of INSCR on "Microbes in Sustainable Development" held in Gurugram on 15 Nov. 2021, in association with the Department of Zoology (DU), Acharya Narendra Dev College (DU), Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), PG Department of Zoology (MU), Maitreyi College (DU), Sri Venkateswara College (DU), C.M.P. College (AU), SGTB Khalsa College (DU), COCAS (PU) & PhiXgen Pvt. One-day international webinar on "The post-Covid challenges and opportunities for the Chemist", 21 Dec. 2021, Indian Science Congress Association (Delhi Chapter) and Department of Chemistry, University of Delhi.

Role of microbial degradation in sustainable waste management, 6th Annual International e-Conference on Microbes in Sustainable Development, Indian Network of Soil Contamination Research, 15 Nov. 2021, ANDC, DDUC, Gargi College, KMC, Ramjas College, SVC & PhiXgen Pvt. Ltd., Delhi
NIPAH Virus: A threat for next pandemic, 6th Annual International e-Conference on Microbes in Sustainable Development, Indian Network of Soil Contamination Research, 15 Nov. 2021, ANDC, DDUC, Gargi College, KMC, Ramjas College, SVC & PhiXgen Pvt. Ltd., Delhi.

The 61st Annual Conference of the Association of Microbiologists of India (AMI) and Indian Network for Soil Contamination Research (INSCR) on "Microbial World: Recent Developments in Health, Agriculture and Environmental Science", 03 Feb. 2021, Microbiologists of India (AMI) and Indian Network for Soil Contamination Research (INSCR).

Seminar/Conference Presentations

A Seminar on 'Studies of Butterflies', organised by Eco Club Ramjas College, on 2021, September 15. Speaker, Dr. M. Ojit Kumar Singh.

Organised a Seminar by Ramjas College in association with Deen Dayal Upadhyaya College, Gargi College, IIT Roorkee, Kirori Mal College, PG Dept. of Zoology Magadh University, PhixGex Pvt. Ltd., Gurugram, Acharya Narendra, Dev College, Maitreyi College, Sri Venkateswara College and C.M.P. College Allahabad University, under the aegis of Indian Soil Contamination Research – INSCR. By- Dr. Charu Dogra Rawat.

A Seminar on 'Antibiotics: Are they friends or foes?' organized by the Department of Chemistry, Ramjas College University of Delhi, Delhi, under the aegis of IQAC, Speaker- Anju Singh Participation in International Webinar on World Science Day for Peace and Development.

In a two-day workshop entitled "Lab Skill Development" organized by the Department of Chemistry, Ramjas College, University of Delhi, under the aegis of IQAC. Resource person- Anju Singh.

International Webinar entitled "Antibiotics: Are they friends or Foes?" Department of Chemistry, Ramjas College, University of Delhi. Resource person- Anwar Jahan.

Webinar on "Future aspects in the field of Chemistry & Importance of Green Chemistry from a Research Perspective". Conducted by Rasayaniki, the Chemistry Society, Ramjas College, University of Delhi.

Seminar on 'Analysis of Failure of grater springs in CANDU nuclear reactors. Ramjas College University of Delhi. Resource person- Chandra Mohan.

International Webinar on World Science Day for Peace and Development organized by the Department of Chemistry under the Aegis of IQAC, Ramjas College, University of Delhi. Resource Person- Madhu Bala Raigar.

Webinar on “Future Aspects in the Field of Chemistry & Importance of Green Chemistry from a research perspective. Conducted by Rasayaniki, the Chemistry Society, Department of Ramjas College, University of Delhi. Resource person- Manvi Vaish.

Webinar on, “Overview of Intellectual Property Rights & its Relevance in Research and Development” organized by the Department of Chemistry, Ramjas College. Resource person- Manvi Vaish.

Other Inter-Institutional Collaboration

International webinar on Biodiversity Day organized by the Department of Environmental Sciences, M.L. Sukhadia University, Udaipur (Rajasthan) in collaboration with Ramjas College and others on 22 May 2021 (Dr. Suresh Kumar Member, Organizing Committee).

International webinar on World Environment Day organized by the Department of Environmental Sciences, M.L. Sukhadia University, Udaipur (Rajasthan) in collaboration with Ramjas College and others on 5 June 2021 (Dr. Suresh Kumar Member Organizing Committee).

The Placement Details

69

Number of Companies Visited for Campus Recruitment

28

Library Development

E-journals and e-books- The library provided e-journals and e-books to students and faculty members through NLIST subscription. There has been a substantial increase in membership to NLIST during 2021-22. The faculty members and PG students have been extended the facility of remote login to the e-resources provided by the Delhi University Library System. Printed Study Material- The required study material was sent to the students through WhatsApp and email as the students were unable to physically visit the library due to the ongoing Covid pandemic. The circulation counters were restructured to fulfil the requirements of a fully automated college library and also to free up space.

Faculty Strength

Adhoc: 134

Regular: 82

Temporary: 1

Financial Allocation and Utilization

Rs. 55,09,23,729/- (subject to audit, Deficit)

Rs. 66,58,57,299/- (subject to audit, Deficit)

RAM LAL ANAND COLLEGE





Brief History

Ram Lal Anand College was founded in 1964 by Late Shri Ram Lal Anand, a senior advocate in the Supreme Court of India, in response to the growing social demand in the sixties for providing educational opportunities at the university level with two programmes of study. The College was initially managed by the Ram Lal Anand Trust and taken over by the University of Delhi in 1973 and thereafter run as a University of Delhi Maintained Institution with 100 % funding from the UGC, Ministry of Education, Government of India. Currently, it is a multi-disciplinary, co-educational institution with more than 2700 students pursuing 14 UG programmes in Humanities, Commerce, Management, and Sciences. The College has 90 highly learned and committed faculty members mostly Ph. Ds with national and international post-doctoral research experience. The college campus is spread over ten acres of land with green lawns and elegant buildings located near the South Campus, University of Delhi, and is connected to the Durgabai Deshmukh South Campus metro station. The College is Wi-Fi enabled with excellent infrastructure, state-of-the-art laboratories, a seminar room, an amphitheatre, a library, a playground, and a cafeteria. The College is a leading affiliate of the National Cadets Corps (NCC) and National Services Scheme (NSS) and runs a compulsory course "Human Values, Ethics & Life Skills" for all first-year students to instill values. The College offers several job-oriented add-on skill development courses and promotes research and start-ups. The College has taken several environment-friendly initiatives including a rainwater harvesting system, recycling of RO water waste, paper and E-waste, composting, a herbal garden, and solar power generation.

Major Activities and Achievements

In this academic session, the College held its activities for the holistic development of students even during the COVID pandemic, continuing teaching-learning in online mode. The pass percentage of the outgoing batch 2018-21 was 99.08%. Akash Nair of B.Sc. (Hons) Geology, III Year was awarded the University Gold Medal for securing the top position in the University examination. The students were offered 13 add-on skill development certificate courses and the College also organised free 60-hour coaching classes for CAT, UPSC, and SSC & Bank PO entrance examinations in online mode in collaboration with Facilitate Academy. Students were also enriched through

virtual visits and field visits to Almora and the surrounding areas in Uttarakhand, Himachal Pradesh, Atomic Mineral Directorate of Exploration & Research (AMD), DOAE- R.K. Puram, New Delhi. The College organised more than 75 webinars/seminars inviting experts in various fields. The College has initiated a 4-6 weeks summer internship programme through its Research & IPR cell for giving research exposure to students. Our research activity exceeded pre-pandemic levels, faculty published 59 Journal publications, 2 books, and 15 chapters in edited books. Five Ph.D. students have been enrolled under the faculty in 2021-22 in various departments.

The Department of Microbiology received the Best Department Award at the state level on 8 Dec. 2021 for the session 2020-21 by the Microbiologists Society, India. The College has been recognised for its best work in making the campus sustainable in the areas of sanitation, hygiene, waste management, water management, energy management, and greenery by the Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India.

Several steps were taken for infrastructure upgradation. The College purchased 100 licenses of Google Workspace for online teaching learning and renewed the Zoom Pro package for large online meetings. The College upgraded its laboratories through the purchase of equipment including computers, smart boards, a Fluorescence Microscope, BOD, and a Biosafety Level II cabinet. The construction of two research labs has been completed. The construction of a Student Activity Room/Yoga Room is underway and 9 classrooms are being converted to smart classrooms. The College is soon becoming self-sufficient in energy generation through the installation of 130 KV solar panels. The College is in the process of becoming a barrier-free campus (PwD friendly). The College also initiated the process for the installation of a Community Radio Station. The College offered the following add-on Skill Development Certificate courses for students:

Basic Statistics for Biological Sciences (under the aegis of the DBT Star College Scheme)
Evolution of the Himalayas and Integration of GIS Studies Using QGIS Software & R Programming Language
Public Policy
Essential Skills in Science and Environment



Communication (in association with Vigyan Prasar)
Translation (in collaboration with Anuvad Parishad Delhi)

India's International Relations & Foreign Policy in a Globalising World: Theories, Debates & Concerns

History of English Literature

Chinese Language

Japanese Language

Advance Excel and Data Analysis using Excel

FINTECH

Data Visualisation using Power BI & SQL (in collaboration with IVY Pro School)

Human Values Ethics and Life Skills

An internship fair- MILESTONE 22', was organised on 11 April 2022, where over 120 students received offer letters from companies. The College started online aerobics classes besides yoga classes which continued throughout the pandemic for the physical well-being of students and staff.

Honours/Distinctions

Dr. Pooja Bansal was awarded Dr. Sarvapalli Radhakrishnan Best Teacher Award on 5 September 2021 by the Centre for Professional Advancement (a unit of IMRF regd, on NITI AAYOG Darpan) in appreciation of teaching research in Mathematics and differential geometry.

Seven Faculty members have been promoted from Associate Prof. to Prof. level; 7 from Assistant Prof. Stage III to Associate Prof.; 14 from Assistant Prof. Stage II to Assistant Prof. Stage III; and 16 from Assistant Prof. Stage I to Assistant Prof. Stage II in 2021-22.

Students with Distinctions

Akash Nair of B.Sc. (Hons) Geology, III Year awarded the University Gold Medal and Certificate in the 98th Convocation ceremony held on 26 February 2022 for securing the Top position in the University examination.

Diksha Singh of the NSS RLA unit welcomed the Maldives contingent on behalf of MYAS (Ministry of Youth Affairs and Sports). Nine NSS volunteers represented Delhi contingent at National Integration Camp (NIC) held at Sri Ramakrishna College of Arts and Science, Coimbatore. Two NSS volunteers Lokesh and Ravi Kushwaha were selected for the North Zone Pre-Republic Day Parade camp and represented the

Delhi directorate at the North Zone Pre-RD Parade Camp held at Kalwar, Jaipur.

Subhag Singh B.Sc. (Hons) Microbiology Part III awarded First Prize in Monologue Competition, SWAANG- Monologue Competition, Rendezvous 2022, on 25 April 2022 at IIT, Delhi

Arun Kumar Adarsh Verma, Rahul Kumar and Ankita Yadav, of B.Sc. (Hons) Mathematics, were awarded a prestigious INSPIRE fellowship from DST, Government of India.

NCC cadet Ujjwal Sharma was recommended from 19SSB Allahabad SCE CDSE Entry.

Aakash Parihar, a member of the Art and Culture Society won a gold medal for the Best Background Score for cinematography (individual specialization: music composing) and a silver medal in the *Best 2D animated short film* (individual specialization: storyboard artist) in the Delhi CG Awards, organized by MAAC (Maya Academy of Advanced Cinematics).

Publications

Sharma N.K., Kumar S., Rajpal, A., and Kumar N. (2022). MantaRayWmark: An image adaptive multiple embedding strength optimization-based watermarking using Manta-Ray Foraging and bi-directional ELM. *Expert Systems with Applications*, 200(-), 116860.

Kumar P., Dubey, C. S., Kumar O., Shekhar, S., and Shukla, D. P. (2021). Deciphering the role of meteorological parameters controlling the sediment load and water discharge in the Sutlej basin, Western Himalaya. *Journal of Environmental Management*, 298(2021), 113413.

Lal, R., Padhan, T., Jangra, B., Chauhan, P. R., Sahu, S., and Patnaik, R. (2022). New field observations on the Quaternary Geology and vertebrate paleontological occurrences in the Narsinghpur Region of Narmada valley (Central India). *Journal of Geological Society*, London, 515(2022), 243.

Sapra, D., Kaur, H., Dhall, A., Raghava, G.P.S. (2021). ProCanBio: a database of manually curated biomarkers for Prostate Cancer. *Journal of Computational Biology*, 28(12), 1248.

Shahanshah MFH, Anvitha D, Gupta, V. (2022). In-silico screening to delineate novel antagonists to SARS-CoV-2 nucleocapsid protein. *Physics and Chemistry of Earth*, 127(-), 103188.

Azad, M. A., Singh S. K., Alok, A., Shekhar, S., and Kumar P. (2022). Geotechnical and geological studies of Adit-6 of the railway tunnel between Rishikesh and Karnprayag in India focusing on the excavation methods and design of support analysis: a case study. *Arabian Journal of Geosciences*, 129(15), 1.

Munjali, N.S., Sapra, D., Parthasarathi, K.T.S., Goyal, A., Pandey, A., Banerjee, M. and Sharma J. (2022). Deciphering the Interactions of SARS-CoV-2 Proteins with Human Ion Channels Using Machine-Learning-Based Methods. *Pathogens*, 11(2), 9.

Saini P, Grewal A., and Hooda, S. (2022). In silico approach for identification of polyethylene terephthalate hydrolase (PETase)-like enzymes. *Bioremediation Journal*, -(), 1.

Dwivedi V, Gupta, RK, Gupta, A, Chaudhary VK, Gupta, S, Gupta, V. (2022). Repurposing Novel Antagonists to p7 Viroporin of HCV Using in silico Approach. *Letters in Drug Design and Discovery*, 9(11), 969.

Yadav, V.K. and Sarma, M. (2021). Does Credit Market Intervention enhance Economic Outcome? Evidence from India's 'Priority Sector Lending Policy. *Review of Development Finance*, 11(1), 46.

Journals

Anand, Shruti. (2021). ASMI. Annual, 1(1), 1-59.

Anand, Shruti. (2022). ASMI. Annual, 2(1), 1-62.

Kumar Rakesh. (2021). RLA SAMACHAR. Annual, 1(0), 1-4.

Kumar Rakesh. (2021). SAMBHAV. Bi-annual, 15(1), 1-32.

Kumar Rakesh. (2021). SAMBHAV. Bi-annual, 15(2), 1-32.

Research Projects

ICMR, Government of India, 2021-24, Resistome Metagenomic profiling of bioaerosols in the metro network in Delhi-NCR, 56 Lakh. PI: Prof. Rakesh Kumar Gupta,

ICMR, Government of India, 2021-23, Development of a computational framework for COVID-19 multi-omics data analysis in collaboration with IBAB, Bengaluru, 28.30 Lakh. Ms. Diksha Sapra from the College

National Mission on Himalayan Studies (NMHS) by MOEF&CC, Government of India, 2019-22, Enhancement of livelihood opportunities through sustainable development using multifaceted support plans for village cluster around Patiya in Takula Block, Almora District, Uttarakhand, 199 Lakh. PI: Prof. Seema Gupta,

ICMR, Government of India, 2019-22, Alterations in the oral microbiome of betel nut chewing population of North-Eastern India and its correlation with oral cancers: prospecting microbial consortium for therapeutic effect, 35 Lakh. PI: Prof. Prerna Diwan
ICMR, Government of India, 2020-23, Targeting biofilm formation by inhibiting cysteine biosynthesis pathway enzymes in ESKAPE pathogens with natural products, 42 Lakh. PI: Prof. Rakesh Kumar Gupta,

Seminars Organised

Mr. Ashutosh Sharma & Mr. Unnikrishnan Rajappan, Pearl Global Industries Ltd., Advancements in Technologies, Future Technologies, 22 Jan. 2022

Dr. O.N. Bhargava, FNA, Honorary Prof. in the University of Panjab, Chandigarh; INSA Honorary Scientist; Retd. Director, Geological Survey of India, Subdivisions of the Himalayas and Evolution of Lesser Himalaya; Evolution of the Tethyan Himalaya and Broad Structure and Geomorphology of the Himalayas, Evolution of the Himalayas and Integration of GIS Studies Using QGIS Software & R Programming Language, 07-09 July 2021

Prof. V.K. Chaudhary, NASI-Senior Scientist at Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET), UDSC, Antibodies – ek naam anek kaam, Immune response, 25 Feb. 2022
Dr. Indranil Saha, Scientist E, ICMR Kolkata, Data Collection Methods, Data analysis, 15 Feb. 2022

Prof. Sooraj Paliwal, Mahatma Gandhi Antrarashtriya Hindi Vishwvidyalaya Wardha Maharashtra, National seminar Hamare Samay Ka Badalta Swaroop Aur Aaj ki Hindi Kahani, Hindi language, 09 Sept. 2021

Conferences Organised

A two-day International Conference on 'Gandhi and Global Peace' on 17-18 February 2022.

A one-week Faculty Development Programme on 'Inclusive Growth and Affirmative Action in India: A Road Map' in association with the TLC Ramanujan College, University of Delhi, and DR. Ambedkar Chair in Social Justice, Indian Institute of Public Administration on 17-24 January 2022.

A two-day Business Conclave on 26-27 June 2021.

A two-day National Workshop on 'Holistic Fitness' on 23-24 June 2021.



A two-day National Workshop on 'Molecular docking in drug design' on 31 March-1 April 2021, under the DBT scheme.

Seminar/Conference Presentations

Kuhad, U. (2021). Conducted the Plenary Session entitled 'Critical Dialogue on Northeast Literature of India' in conversation with Mamang Dai at the 22nd Rupkatha International Open Conference on Recent Advances in Interdisciplinary Humanities, organised by Rupkatha Journal on Interdisciplinary Studies in Humanities (SCOPUS Indexed) and Univ. of Arizona, USA & University of Talca, Chile.

Gupta, V. (2021). SARS-CoV-2 Proteases: exploring their suitability as targets for novel therapeutics, invited talk in international e-workshop on Exploring resources for COVID-19 Research Camarada (YouTube channel) in association with Gautam Shiksha evam Gramin Vikas Sansthan and Kalyani Welfare Associations held on 2021, July 26-31.

Chandra, N. (2021). Antiviral activity of ethnomedicinal plants against HCV, online Oral Presentation in 6th World Summit on Virology, Microbiology & Infectious Disease, Conference Series LLC Ltd, Bellegrove Road, Welling, England on 2021, December 08.

Kumar P. (2021). Geo-Statistical observation of climate control on multi-decadal (1981-2020) runoff patterns in river basins of the Indian subcontinent" in the International Virtual Conference in Geosciences with a focus on Climate Change Perspectives (ICGCC-2021 at Mohanlal Sukhadia University, Udaipur on 2021, July 12.

Kumar P. (2021). A Glimpse of Hydro-Meteorological Controls on The Geo-Hydrology of the Sutlej Basin, Western Himalaya, India at National Seminar on Recent Advances in Geoscience Research in India. Conference Paper. 2021, July 01-02.

Mital, N. (2021). Enhancing Graduate Employability Skills: Application of Statistical Techniques for Quality Assurance in Industries in ICAMTSD'21 at HIPA, Govt. of HP on 2021, September 04.

Pande, P.K. (2021). Sustainable Mountain Tourism, Placing Sustainability at the Heart of Mountain Tourism" on International Mountain Day at NMHS,

GBP NIHE HQs, Almora, Uttarakhand on 2021, November 11.

Tyagi, K.G. (2022). One Belt One Road and Vision of Emerging India of 21st Century Presentation During Associateship of UGC-IUC IAS, Shimla, 24 June 2022
Kumar S. (2022) Role of Digitalization in Local Self-governance Presentation Emerging Digital Transformation in Modern Society-2-22 IIMT College of Law Noida, on 2022, February 20.

Kumar P. (2021). Climate Controlled Hydrology affecting the River Discharge and Sediment Load in the Upper Catchment of the Chenab Basin at International Virtual Conference in Geosciences with a focus on Climate Change Perspectives (ICGCC-2021), on 2021, July 12.

Dr. Perna Malhotra was invited as a Speaker in a National Seminar on 'Role of Women in India's Freedom Movement' organised by Swami Shradhanand College, University of Delhi on 2022, April 19.

Dr. Perna Malhotra was invited as a Resource Person, in a Four-Month Certificate Course on Research and Academic Writing, organized collaboratively by UDAAN and Aditi Mahavidyalaya, University of Delhi on 2021, September 08.

Dr. Perna Malhotra delivered an Invited lecture on 'Tales of Unsung Heroes: Role of Tribals in the Freedom Movement' at the National Conference on Literature, Caste and Freedom Movement organised by Sri Aurobindo College Evening, University of Delhi on 2021, September 30.

Dr. Perna Malhotra delivered an Invited Talk on 'How to be an Effective Writer' organised by Swami Shradhanand College, University of Delhi on 2021, December 29.

National/International MoUs Signed

MoU with Ladli foundation on 27 January 2022.
MoU with Satva-The Sustainable Initiative Sustainable trust of India (SIT) on 2 Feb. 2022.
MoU with TLC Ramanujan College, University of Delhi & DR. Ambedkar Chair in Social Justice Indian Institute of Public Administration on 7 December 2021.

Continuing MoU with Virtual lab



Continuing MoU with THSTI under Science Setu

Other Inter-Institutional Collaboration

Vigyan Prasar
University of Lincoln, United Kingdom
Department of East Asian Studies, University of Delhi.
Teaching Learning Centre (TLC), Ramanujan College (Under PMMMMNMTT scheme)
Department of Biotechnology, IIIT
School of Biotechnology, GGSIP University, New Delhi, India
Centre for Innovation in Infectious Disease Research, Education and Training, University of Delhi South Campus
St Edmunds College Shillong, Meghalaya
ICT ACADEMY
Translational Health Science and Technology Institute (THSTI) under Science Setu
National Institute of Plant Genome Research (NIPGR) Under Science Setu
Calyxpod
Department of Law, BPS Mahila Vishwavidyalaya, Sonapat
Virtual Labs (IIT Delhi)
Amar Ujala Publications limited
Family of Disabled (FOD)
Molitics
Vigyan Prasar
TEACHING LEARNING CENTRE Ramanujan College, University of Delhi
DR. Ambedkar Chair in social justice Indian Institute of Public Administration

The Placement Details

23

Number of Companies Visited for Campus Recruitment

20

Extension and Outreach Activities

NSS organised a month-long education camp, an anti-tobacco awareness drive, and a COVID-19 vaccination awareness drive at the adopted slum JJ camp, Moti Bagh New Delhi. Waste segregation camp, blood donation camp, clothes donation drive, and National Voters Day were also held during the current academic session under NSS.

NCC organised awareness drives, the cadets participated in camps, and the annual intercollege

NCC event VIKRANT with several competitions.

19 workshops/interactive sessions including time management, leadership skills, and stress management were held in the academic session 2020-21 under the non-credit course on Human Values, Ethics, and Life Skills for students

Development of Geo-tourism, mitigation of Human-Wildlife

Conflict and augmentation in rural income in a cluster of villages in Almora district (Uttarakhand).

Student outreach programme in Sarvodaya Vidyalaya No.1, R.K. Puram. The students of classes 9-12 were briefed about Geology as a subject, its significance in our daily lives, the future prospects and the path to get into the field, intriguing the interest of students in rocks and fossils, through a rock and fossil showcase.

RLA Enactus successfully registered two new projects. Project Aakar and the Finesse Studio with the aim of tackling the looming problem of plastic pollution by recycling bottle caps and converting them into nifty accessories. The team visited potters in the Kumhar colony to connect for communities to set up production for Project Aakar.

The Rock and Fossil show was conducted at the National Science centre displaying fossils, rocks, and minerals specimens from the College to increase their understanding and appreciation of fossils and minerals.

Library Development

The College purchased books worth INR 1011433/- including 914 textbooks (INR 617808/-) and 116 reference books (INR 393624) for the library. NLIST subscription renewed for students and staff; KIBO Scanner and Sugam Pustakalaya subscription started: Total expenditure: INR 1058429/-

Faculty Strength

92

Financial Allocation and Utilization

Rs. 376,750,000/-

Rs. 307,135,808/-

SATYAWATI COLLEGE (M)



Brief History

Satyawati College is a constituent College of the University of Delhi. It was established in the year 1972 by the Government of Delhi. The College is named after a great freedom fighter, Behen (Sister) Satyawati, grand-daughter of Swami Shradhanand, who worked in close association with leaders like Mahatma Gandhi, Jawahar Lal Nehru, Jai Prakash Narain, and Sarojini Naidu. She toiled incessantly, till her death at the early age of 39 years, towards uprooting poverty, ignorance, and communalism. She was named Toofani Behen (Stormy Sister) by Mahatma Gandhi, for her zeal and determination. Satyawati Devi was an ardent freedom fighter from Delhi, who was instrumental in encouraging a large number of women to participate in the Civil Disobedience Movement. Her commitment to national liberation and her dedication to women's freedom remains awe-inspiring. Her speeches and acts of defiance during the time of freedom struggle embody the spirit of the College.

Satyawati College, which is run by the Delhi Government, is one of the most prominent and prestigious, off-campus colleges of the University of Delhi. The College is centrally located in Ashok Vihar, North Delhi, and has a sprawling campus spread over an area of 10 acres. It is a co-educational institution and attracts students from all social strata. There are eleven departments and several courses. Apart from brilliant academic distinctions, our students also have exemplary achievements in extracurricular activities. The College maintains an inclusive atmosphere for students from diverse socio-economic, cultural, and regional backgrounds and provides them with the requisite constructive

atmosphere to interact with each other. The College also takes pride in its magnificent, state-of-the-art Dr. K.P. Bhatt Satya Auditorium, one of the best in the University of Delhi. The spacious auditorium can host events in the spheres of academics, arts, and other co-curricular activities. In order to motivate students to excel in sports and ensure their holistic development, the College has a full-fledged Sports Department situated in a separate block. It also takes care of the special training needs of persons with disabilities. The College has a modern, well-equipped Seminar Room, a Computer Laboratory, and a fully computerized and air-conditioned Dr. Halder Memorial Library which has diverse collections of books and periodicals. There are additional facilities such as a seminar room, canteen, bank, a photocopier, etc. The College offers campus-wide Wi-Fi to both students and faculty. Student-oriented societies like Arts and Culture, Debating, Dramatics, Film and Photography, NSS, NCC, FCC, North-East Society, along with individual department-based societies contribute to making the College a lively, dynamic space for our students. Through a string of activities, the College tries to foster creative and critical thinking among the students. A dedicated team of teachers works actively towards the integrated development of students so as to enable them to carve out a niche for themselves in their chosen fields.

Major Activities and Achievements

The college installed CCTV Cameras.

Promotion of 15 Teachers from Associate Prof.s to Prof..

Promotion of Teachers from AL-10 TO AL-11 (53



Teachers) and AL-11 to AL-12 (47 Teachers).
New Website of the college with CRM.
Created disabled parking space in the college
Library Digitalization Software was started.

Honours/Distinctions

Prof. Ajay Kumar Jha received the “Best Teacher Award” award from the Directorate of Higher Education, Government of NCT of Delhi for the year 2021-22.

Students with Distinctions

S.No.	Name of Students	of Class
1	NANDITA	B.COM (H) 1st year
2	JUBINA DAHAL	B.COM (P) 2nd year
3	SANDEEP YADAV	B.COM (H) 2nd year
4	PANKHURI YADAV	B. A. (HONS.) ECONOMICS 2nd year
5	ANUSHKA NAGPAL	B.SC. (H) MATHS 1st year

Publications

Jalandra, R., Dalal, N., Yadav, A.K., Verma, D., Sharma M., Singh R. Khosla, A., Kumar A., and Solanki, R. (2021). The emerging role of trimethylamine-N-oxide (TMAO) in colorectal cancer. Applied Microbiology and Biotechnology. NA (SCOPUS), NA.

Singh R.K. (2021). साम्प्रदायिकता का प्रश्न और हिन्दी कथा साहित्य. दृष्टिकोण, (UGC Care Listed).

Jha, B. (2021). ‘मदन मोहन मालवीय: सनातनधर्म, एकता और राष्ट्रप्रेम’. इतिहास (शोध पत्रिका), New Series, Vol.7, No.1, January-June 2021, (UGC CARE List).

Kumar P., Singh A. B., & Singh R. (2021). Seasonal variation and size distribution in the airborne indoor microbial concentration of residential houses in Delhi and its impact on health. Aerobiologia.

Kumar P., & Singh R. (2021). Novel coronavirus (severe acute respiratory syndrome coronavirus 2) as a threat to general and reproductive health: Challenges and research needs. Journal of Reproductive Health and Medicine.

Saratchand, C. (2021). A Comparative Theoretical Study of the Role of the Public Sector in China and

India. International Critical Thought, NA (UGC CARE listed)

Saratchand, C. & Datta, S. (2021). Non-pharmaceutical interventions in a generalized model of interactive dynamics between COVID-19 and the economy. Nonlinear Dynamics.

Chakraverty, N. (2021). A Question of Dignity- A Comparative and Historical Study of Chinua Achebe's 'Things Fall Apart' and Kalyan Rao's 'Untouchable Spring'. IJHI, NA (UGC Index).

Diwakar, S.A., & Sharma G. P. (2022). Emerging pattern of arthropod assemblages, biomass, and damage on native and non-native plant species. International Journal of Ecology and Environmental Sciences.

Dhingra, A. (2021). Feminist Constitutionalism: Women in Making and Working of Constitution. Bihar Journal of Public Administration., XVIII, No. 1(UGC Care List. S.No. 41).

Research Projects

Indian Council of Social Science Research (ICSSR), 2021/March 2020-Nov. 2021, ‘The Idea of Reliance and Understanding its Impact on Improving Socio-economic Conditions of Migrant Labourers’. Rs. 5,00,000/-

Indian Council of Philosophical Research, 2021/2021-2023, ‘Bhartiya Darshan aur Hindi Sahitya’. Rs. 3,00,000/-

University of Hail, Hail, KSA, 2021/2021-2022, Development of Rapid RT-PCR based Diagnostic Assays for the Detection of Cryptococcus neoformans in Covid-19 Patients, Rs. 2,42,230/-

Seminars Organized

A seminar entitled Sneak Peek at Career Opportunities- Indian Economic Services, held on 21 February 2022 with the speaker Sh. Bhaskar J. Kashyap, Assistant Director, Niti Aayog.

A seminar entitled ‘Implication for Indian Security, US Withdrawal from Afghanistan’, was held on 06 Sept. 2021, with the speaker Prof. Chintamani Mahapatra, Rector (Pro VC) of Jawaharlal Nehru University.



A seminar entitled 'Gandhi and Issues of Democracy' was held on 24 Sept. 2021, with the speaker Prof. Subrata Mukherjee, former Head of the Department of Political Science, University of Delhi.

A seminar entitled 'The Relevance of Gandhi in the context of the Golden Celebration of our Independence', held on 29 Jan. 2022, with the speaker, Prof. Girishwar Mishra, Former Vice Chancellor of Mahatma Gandhi International Hindi University, Maharashtra.

A seminar entitled 'Global Justice and Global South' was held on 07 March 2022, with the speaker Prof. Ashok Acharya, Department of Political Science, University of Delhi.

Conferences Organized

'Sufi-Bhakti Confluence: Historical, Cultural and Literary Interface', organised on 28 August 2021.

Seminar/Conference Presentations

Prof. Nirmal Jindal presented a paper on 'Relevance of Subhash Chander's Philosophy of Women Empowerment in Contemporary India' in a National Webinar held on 2022, February 19, by the Society of Social Empowerment, CBU, Centre for Philosophical research.

Prof. Pallavi Prasad presented a research paper on 'The Cultural Crossroads of the Kushan Age' at the Virtual World Conference on the Greeks, Kushans, Huns, and Gurjars: Their Cultural Legacy in the Indian Subcontinent at the Indo-Hellenic Research Centre, Delhi on 2022, April 08.

Ms. Anjali Daryal presented a paper entitled 'Consumer Innovativeness, Consumer Confusion and Purchase Abandon Intentions in the Realm of Unconventional Cosmetic Products' at Chitkara University Doctoral Consortium (CUDC-2021) held on 2021, November 12-13.

Ms. Alisha Dhingra presented a paper titled 'Globalization, Governance and Welfare State in India' in the international seminar on 'Governance and Welfare State' held on 2021, January 08-09.

Ms. Alisha Dhingra presented a paper titled 'Transformative Constitutionalism and Social Justice in India' in the International Conference on "Revisiting the Ideas of India: From Swaraj to New India". Held on 2022, May 19-22.

National/International MoUs Signed
8

Other Inter-Institutional Collaboration

Satyawati College organized an Online Two-Week Interdisciplinary Refresher Course on "Managing Online Classes and Co-Creating" on 08-22 November 2021 in collaboration with the Teaching Learning Centre, Ramanujan College, University of Delhi. Satyawati College organized a webinar on the "Entrepreneurship (SAMBHAV) National Level Awareness Programme" on 30 November 2021 in collaboration with Khadi and Village Industries Commission, Varanasi.

The Number of Students placed
75

The Number of Companies Visited for Campus Recruitment
25

Extension and Outreach Activities

Unnat Bharat Abhiyan flagship programme initiated by the Government of India.

Library Development

Total Regular Budget: Rs. 10,93,700/-

Total Expenditure: Rs. 7,24,834/-

New Books purchased: 818

Newspaper, Magazine & Journals: 20+20+8 = 51

Faculty Strength

134

Financial Allocation and Utilization

(a.) Rs. 42,78,41,000/-

(b) Rs. 48,91,82,000/-

SATYAWATI COLLEGE (EVENING)



Brief History

The Satyawati College (E), a constituent college of the University of Delhi, was established in fond memory of Behan Satyawati, the immortal patriot and freedom fighter whose magnificent portrait size statue adorns the entrance of the College. It was established in 1973 in Timarpur, North Delhi, as an evening academic institution for boys with faculties catering the needs of students in discipline courses of humanities, social sciences and commerce. At present, the College is located at Ashok Vihar-III in North-West Delhi. Having present strength of more than 3100 students, it is renowned as one of the leading institutions of higher education. The college is dedicated completely to pursuit and pursuance of academic distinction and teaching and preserving the values of humanism. It draws a cross-section of students, both boys and girls, from various backgrounds. Around 60 non-teaching staff caters the administrative and technical needs of the students.

The college is privileged of the academic commitment of its faculty, which has several accomplishments to its glory and has made valuable contribution to the making of qualitative academic spirit. The teachers are honestly and sincerely devoted not just for carrying out their responsibilities but also for performing their duties, for cherishing the capabilities of the students and for shaping the students into responsible citizens and individuals. They are devoted to preparing the students towards self-governance and inspiring the holistic development of their personality. The students are

persistently stimulated to construct knowledge and realize their leadership potential to face the challenges of an increasingly competitive world. They are exposed to diverse streams of thought through the courses of study in humanities, social sciences and commerce. Over the years, the College has earned its reputation as a centre of academic excellence.

Major Activities and Achievements

While imparting quality education to the students, many of the teachers have participated and presented research papers at various national and international academic and scholarly conferences, seminars and workshops, both in India and abroad. Some of them, also, have authored and/or co-authored academic articles and books.

The academic results of the college have constantly shown remarkable progress with number of students in various departments securing outstanding marks in various courses and disciplines. The college has established its reputation in various fields such as Sports, NCC, Dramatics and Debate. The College has set up the benchmark for excellence in Judo and Weight Lifting. Our students have excelled in Wrestling, Weight Lifting, Body Building, Kabaddi, Archery and Judo at Inter-University, National and International level.

The N.C.C. unit has provided ample opportunities to the cadets to participate in important all India Camps including Republic Day Camp, Prime Minister's Rally (2022), Amar Jawan Jyoti Camp (India Gate), Para sailing & Para slithering camp etc.



Honours/Distinctions

Delhi State Legal Services Authority and BJSS honoured Mr. Durgesh Verma, Assistant Prof., Department of Political Science with Award for Outstanding Services in the Field of Legal Awareness Legal Awareness on 10, November, 2021.

Students with Distinctions

Name of the Student	Class
Cadet Kshitiz got ADG Commendation on 28 January 2022 in PM Rally Culture	B A Hons Political Science
CHM Sushil, CHM Sonu, Cadet Yash Rawat Completed Tableux on 28 January 2022 in PM Rally Tableux	B A Prog.

Cadet Ankit Yadav and Cadet Akash Rana selected for PM Rally ParaSailing

Publications

Singh B., Kaushik, A. (2021). Application of biomagnetic analysis technique using road side trees for monitoring and identification of possible sources of atmospheric particulates in selected air pollution Hotspots in Delhi. Atmospheric Pollution Research, 1(12),101-113.

Singh B., Kaushik, A. (2022). Dust capturing potential of some existing roadside tree species: Implication for urban dust aerosol monitoring and mitigation around Wazirpur Industrial Area, Delhi. International Journal of Geography, Geology and Environment, 1(4), 116-122.

Verma, R.K. (2021). Upayakausalya, Significance of the Skillful Means in the Lotus Sutra and in the Modern World. Sodh Sanchar Bulletin, 11(41), 91-95.

Verma, R.K. (2021). Trade and Cultural Exchanges in Vyas Valley of Uttarakhand. Unnati International Journal of Multidisciplinary Scientific Research, 3(9),69-76.

Seminars Organized

Dr. Faiyaz Ahmad Khudsar, Sr. Scientist and Incharge Yamuna Biodiversity Park, Delhi Biodiversity Parks: Model for urban Sustainability and resilience, Environment and Nature, 14 February 2022

G.N. Trivedi, Prof., Department of Political Science, Motilal Nehru College(E), Delhi University, Mary Wollstonecraft: Women's Rights and Rise of Feminism, Women Rights, 08 March 2022.

Dr. Pankaj Kumar Senior Specialist, Dr. B S Ambedkar Hospital and Medical College, Delhi, Post-Covid Health and Care: Remedies for Students and Teachers, HealthCare, 27 March 2022.

Prof. Vijayalaxmi Singh Department of History, University of Delhi, Epic Traditions and Historiography in Ancient India, History, 22 March 2022.

Conferences Organized

Two Day International Conference on "Relevance of Buddhism in the Contemporary World 24-25, organized by Department of Buddhist Studies & IQAC, Satyawati College (E) Convener: Prof.Ranjana Rani Singhal Co-Convener: Durgesh Verma, 24 March 2022, ICHR, New Delhi

Seminar/Conference Presentations

Verma, Durgesh, Idea of Governance in Buddhism Two Day International Conference on "Relevance of Buddhism in the Contemporary World "24-25 Sponsored by ICHR, New Delhi, organised by Department of Buddhist Studies & IQAC, Satyawati College (E).

Verma, Durgesh, chair a Session in Two Day International Conference on "Relevance of Buddhism in the Contemporary World"24-25 Sponsored by ICHR, New Delhi, organized by Department of Buddhist Studies & IQAC, Satyawati College (E).

Verma, Rajiv K., The power of Expression in National Seminar on "Nava Nalanda Mahavihara", Nalanda, Bihar, 03 October 2021, organized by Indian Society for Buddhist Studies.

Verma, Rajiv K., Importance of Computer Application in Higher Education as Chief Guest & Resource Person in Faculty Development Programme, Organised by Govt. Girls P.G. College, Rewa, Madhya Pradesh, National, 2022, February 21.

Number and percentage of student splaced

20
10%

Number of Companies visited for campus recruitment

05

Library Development

The college library has added 1250 new books on various subjects to its collection. The library subscribes to six journals of various disciplines, one journal (Reliance Drishti) for blind students, twenty two magazines and twenty three newspapers. To provide hassle free access to visually impaired students the Library has also subscribed Indo-NVD software screen reading software with 14 voices in 10 languages). The library is also the member of N-LIST programme. The programme is funded by the MHRD under NMEICT to extend access to 3 selected

e-resources to colleges. It has subsumed under UGC-INFONET-Digital Library Consortium as college component from year 2014 being funded by UGC. The Library offers an open access facility and OPAC facility to the users for the available collection. It has also started the PayTm facility to pay fine online for books return after due date. Recently library hasopened a new Journal and magazine section forusers, where they canread newspapers, magazines and journals subscribed by the library. The Previous year's question papers are also made available in digital form for easy dissemination among the students and teachers.

Faculty Strength

125

Financial Allocation and Utilization

Rs. 21,00,00,000/-
Rs. 26,64,00,000/-

SCHOOL OF OPEN LEARNING



Brief History

The School of Open Learning [a part of the Campus of Open Learning] formerly known as the School of Correspondence Courses and Continuing Education, established under the University of Delhi in 1962, is a pioneer institution in the field of Distance Education in India. The country witnessed the beginning of an alternate mode of education when the School started with a modest admission of 900 students in 1962. The School enrolled more than two lakh students in the Academic Session 2006-2007. On many occasions, our students have been toppers in various

disciplines. The admission process for various courses in the School is governed by the norms established by the University of Delhi. The examination is also conducted by the University of Delhi. The University confers the degree to the students of the School as it does in the case of its other constituent colleges. There is no differentiation in the course curriculum followed by the School of Open Learning and other constituent colleges and departments of the University of Delhi. In an effort to cater to the needs of a growing number of students,



the School established the South Study Centre at Moti Bagh from the academic session 1990-91. In an effort to reach out to a larger number of students, the school is in the process of opening up a Study Centre in the Eastern and Western parts of the National Capital Region of Delhi.

Major Activities and Achievements

Department of Distance and Continuing Education, Campus of Open Learning, School of Open Learning, University initiated Audio Video Studio for developing E-content and other academic activities at the Academic Research Centre, ILLI opposite Khalsa College, University of Delhi, Delhi – 110007.

The Academic Council and the Executive Council, University of Delhi have passed seven Undergraduate and Post-graduate Courses viz. MBA, BBA, BMS, B.A. (Hons) Economics, B.Sc. (Hons) Mathematics, B. Lib, and M. Lib in 2022.

The Department of Distance and Continuing Education, Campus of Open Learning, School of Open Learning, University of Delhi has started to prepare E-Contents and Audio-Video lectures for the new courses.

School of Open Learning, University of Delhi has established West Regional Centre, COL, C-2, Keshav Puram, Delhi – 110035.

East Regional Centre, School of Open Learning has already been established in 2021 and is likely to be completed in 2023.

Students with Distinctions

S.No.	Name of Students	Class
1	DIVYA GUPTA, (18-1-29-000036)	M.COM
2	MUKUL KUMAR (18-1-30-000261)	M.A. HINDI
3	NEELAM JOSHI (18-1-31-000049)	M.A. HISTORY
4	SHRESHTHA BANSAL (18-1-32-000053)	M.A. POL SC
5	BALAJI (17-1-33-000018)	M.A. SKT

Publications

Yadav, S. (2021). अग्निपुराणएवंस्त्री चिन्तन. ISSN No. 0974-3065, 26(1), (2021), 66-71.

Yadav, S. (2021). दानएकसामाजिककृत्यः अग्निपुराणकेआलोकमें. ISSN No. 0974-8946, 101-111(2021), 101-111.

Seminar Organised

Lecture on 'भारतीयनववर्षकेनिहितार्थ' on 05 April 2022, with the speaker- Dr. Balram Shukla, Assistant Prof.

Seminar/Conference Presentations

National Seminar organized by Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, in association with ICSSR SHoDH & COL (University of Delhi) held on 23-24 March 2022.

Participated in National Seminar on 'Vishwa Guru Bharat: Exploring Glorious Past, Promising Present, and the Future Roadmap' organized by Students of Holistic Development of Humanity (SHoDH), COL and ICSSR on 23– 24 March 2022.

The Placement Details

280

Number of Companies Visited for Campus Recruitment

28

Library Development

DELNET (Resource Sharing Network) Services DELNET services are extended to the academics for their requests for those documents which are in the SOL library. The documents are collected from member libraries of DELNET and made available for consultation in SOL library premises only. The request for documents is confined to the disciplines of their respective courses only.

N-LIST (National Library and Information Infrastructure for Scholarly Content) The students are provisioned with the N-list database of more than 6257+ e-journals with back files for 10 years and 31,35,809 + e-books. These resources belong to all disciplines and students can access this facility remotely from anywhere 24x7.

Enabling Unit for visually impaired students Equal opportunity Cell (EOC) has a full-fledged facility with special gadgets and software for the visually impaired namely Seika V3-Braille Display, Braille



Sense U2 Note Taker, Readit Scholar-HD, Read Easy move standalone reading Machine, Daisy Player, Braille Face, and NVDA.

Sugamaya Pustakalaya Online: SOL is an associate member of this online service for visually impaired students. The Sugamaya Pustakalaya is the aggregator of accessible e-versions of books available in India. It is poised to become the largest collection of books in accessible formats in India and a one-stop resource for the reading requirements of all those persons who due to blindness, weak eyesight, or any other disability cannot read the standard print. Bookshare, the largest International online library for persons with print disabilities is also integrated into Sugamaya Pustakalaya.

All the titles available in the Bookshare library for India can be searched and downloaded through the Sugamaya Pustakalaya. The books provided are primarily in audio format and the files downloaded

from the online library can be read on computers, mobile phones, tablets, and dedicated e-book readers.

To provide equal education to distance learners, a library portal is being designed and developed having the following features:

Structured digital library with open access e-resources, licensed e-resources, e-learning, and educational portals, study material, web catalogue, resource sharing mechanism, etc. accessible 24 X 7 from anywhere. the portal is being facilitated with ease-to-use guides.

Faculty Strength

Permanent: 17

Temporary: 01

Adhoc: 09

SHAHEED BHAGAT SINGH COLLEGE

Brief History

The College was established in 1967 and has since been providing generations of students from across the country with quality education and research facilities. Initially, it was situated in the Govind Puri, Delhi, but in order to accommodate greater number of students in view of the rising need and relevance of higher education, the College shifted its premises to its present location in Sheikh Sarai, New Delhi. The College offers courses in Commerce, Humanities, and Social Science and endeavours to provide a vibrant student-centric pedagogy and learning environment for the overall development of all our students, focusing on components such as academics, extra-curricular activities, sports, NCC, and social work.

Major Activities and Achievements

The 55th Annual Day of the College was celebrated on 22 April 2022, at the Siri Fort Auditorium. The event was graced with the esteemed presence of Prof. Dhananjay Joshi, Dean, University School of Education, GGSIP University. We were also fortunate to have amongst us Shri Feroz Khan, Chairman, College Governing Body. The occasion saw felicitation of students for achievements in their respective academic and co-curricular activities. In addition to this, eight retiree members of the faculty

were also felicitated for their years of service to the institution.

Promotion of Faculty Members

The academic year 2021-22 was significant for many of our faculty members. This is due to the fact that promotions were granted to 140 members of faculty. This could not have been possible without the unrelenting efforts of Dr. V.A.V. Raman, who served as the co-ordinator of the college IQAC cell. After him, this responsibility was shouldered by Dr. D.R Saklani, Dr. Arun Attree, and Dr. Varinder Kumar. Members of faculty were promoted to various levels (Level-11, Level 12, Level-13A, and Level-14) based on eligibility criteria established by the University. The following table provides details about the number and nature of promotions

Sr.NO	Department	No. of Promotions done				Total
		Level-11	Level-12	Level-13A	Level-14	
1	Commerce	8	24	17	4	53
2	Economics		3	1		4
3	English	3	8	5		16
4	Geography	1	5	4	3	13
5	Hindi	3	10	7	3	23
6	History					0
7	Mathematics	5	3	1		9
8	Pol. Science	8	6	2	1	17
9	Physical Education	1	1			2
10	Library	1	1	1		3
Total		30	61	38	11	140

Honours/Distinctions

Dr. Aarti Saini received prestigious UILA- best Researcher Award (commerce) by Shaheed Sukhdev College of Business Studies, University of Delhi, NIT Patna, University of Valladolid, Spain on 19 February 2022.

Dr. Jai Ram Meena was awarded Ph.D. degree in Economics by Jawaharlal Nehru University (JNU), New Delhi.

Dr. K B VeioPou awarded the Gordon Graham Prize for Naga Literature 2021 (fiction category) for the novel Waiting for the Dust to Settle.

Dr. Nilanjana Mukherjee was conferred the Excellence Award for Teachers in Service on the occasion of its 99th Foundation Day by the University of Delhi

Dr. Pooja Goel received College Teacher's Award for providing meritorious services for the year 2020-2021 by Directorate of Higher Education, Delhi.

Dr. Shruti Gulati was awarded Ph.D. (Commerce) at the 98th Annual Convocation of University of Delhi held on 26 February, 2022 at the Delhi University Sports Complex

Dr. Vandana Dahiya was awarded Ph.D. degree in June 2021 from Centre for Management Studies, Jamia Millia Islamia, New Delhi.
Publications

Department of Commerce

Anil Kumar Surender Singh and Preeti. "A Comparative Study of Financial Inclusion & Digital Financial Inclusion in India in the wake of Demonetization and COVID -19 Pandemic". Global Journal of Enterprise Information System. Volume 13, Issue 3, July-Sep. 2021.

Goel, P., Parayitam, S., Sharma A., Rana, N.P., Dwivedi, Y.K. (2022). A moderated mediation model for e-impulse buying tendency, customer satisfaction and intention to continue e-shopping, Journal of Business Research, 142, 1-16.

KumarA., SharmaC., KumarA. Employees' CSR perception about companies during COVID 19 pandemic: A comparative case of TATA group and Reliance Industries. NIU International Journal of Human Rights ISSN: 2394 – 0298 Volume 8(III), 243-250

Prof. Ruchi Gupta, published a paper titled 'Impact of COVID-19 crisis on stocking and impulse buying behaviour of consumers' in International Journal of Social Economics, Vol. 48, Issue: 12, pp. 1794-1809 (ABDC-B, Emerald and Scopus Indexed). The paper is also listed in the World Health Organisation's (WHO's) repository on "COVID-19 – Global literature on coronavirus disease".

Department of Economics
Kapoor, Rajni (2021). Analytical Measurement of economic freedom to enhance agricultural efficiency: A Developing Countries Perspective. Research Journal of Agricultural Sciences-An International Journal, Vol. 12(7) 1071-78, June, 2021. India (UGC CARE), P- ISSN: 0976-1675, E- ISSN: 2249-4538

Swati Rajput, Kavita Arora, Rachna Mathur wrote a book on Urban Green Space, Health Economics and Air Pollution in Delhi Copyright Year 2021 ISBN 9781032234014 Published 30 March 2021 by Routledge India 192 Pages 55 B/W Illustrations

Department of English
Dr. Komal Agarwal published "Translating the Poetry of Leena Malhotra" in Living in Languages, Vol. I, fall 2021, published by University of Albany.
Dr. V. Deepa published a paper on 'The Poetics and Politics of Jallikattu in C.S. Chellappa's Vaadivaasal / Arena in the Journal of Social Sciences and



Humanities, Social Glance, Page 66, Volume 9, January - December 2020.

Department of Mathematics

Dr. Krishnadas published Generalized and Extended Versions of Ankeny-Rivlin and Improved, Generalized and Extended versions of Rivlin type Inequalities for Derivative of a polynomial, *Mathematics* 2021, 9(8), 887 [SCIE]

Dr. Om Prakash Meenapublished a paper Influence of the Soret and Dufour on mixed convection flow over a vertical cone with injection/suction effects. *Journal of Porous Media*, 24(4), 73-88 (2021) Mixed Convection Flow over a Vertical Cone with Double Dispersion and Chemical Reaction Effects, *Heat Transfer Research*, 50 (5), 4516-4534 (2021).

Dr. Pooja Raj Verma published paper on Influence of poling angle on a mode-III non-centric semi-permeable crack in the piezoelectric strip under linearly varying load over developed zones, *Mechanics of Advanced Materials and Structures*, (2021), pp. 1-10. (SCI Expanded and Scopus.)

Setia, N. & Mohanty, R. K. (2021). A Third Order Finite Difference Method on a Quasi-Variable Mesh for Nonlinear Two Point Boundary Value Problems with Robin Boundary Conditions. *Soft Computing*, 25:12775-12788.

Mr. Sandeep Kumar published Prediction of landfall intensity, location, and time of a tropical cyclone. In *Proceedings of the AAI Conference on Artificial Intelligence*, volume 35, pages 14831–14839, 2021.

Department of Hindi

Prof. Kamlesh Kumari published a research Article in E- Magazine Sahchar Topic: Bhakati Aandolan Ki Samant Virodhi Bhumika Aur Sant Kabir (Jan 2021)

Dr. Kumar Bhaskar published Beesvi Sadi Aur AajKe Cinema Me Dalit Nayak, published in Sablog, February 2021, ISSN 22775897

Dr. Santosh Kumar published 'Ashok Vajpeyi ki kavya bhasha aur shilp' in an international magazine Jankriti in March 2022.

Department of Geography

Kavita Arora et.al, Measuring and Mapping the State Of Food Insecurity In Rajasthan, India. *Geography, Environment, Sustainability*, Vol.14, No 1, p. 33-40, 2021.

Poonam Sharma Geospatial Technology and Smart City Development. Springer Nature, Switzerland, ISSN 2365-757X; ISSN2365-7588 (electronic) Edited. Scopus Indexed, 2021.

Poonam Sharma Challenges of Urban Basic Infrastructure in Gated Societies of Greater Faridabad, India and An Application of IOT in Smart Governance: Way Forward to Sustainable Development Goals. Mishra, V. N., Rai, P. K. and Singh Prafull, *Geo-information Technology in Earth Resource Monitoring and Management*, Nova Science Publishers, New York, June 2021.

Swati Rajput, Dr. Kavita Arora, Dr. Rachna Mathur, Urban green spaces, Health economics and Air Pollution in Delhi. Routledge India 9780367352691, 2021.

Swati Rajput, Measuring and Mapping the state of food insecurity in Rajasthan, India. *Geo Spatiality and Sustainable Development Goals of Geography, Environment, Sustainability journal*, ISSN 2071-9388 (Print) ISSN 2542- 1565 14 (1): 33-40 Lomonosov Moscow State University publication (Corresponding author), 2021.

Dr. Vishwa Raj Sharma Agro ecology: The Science of Sustainable Agricultural Practices. Natural Resources and their Ecosystem Services in association with Calma Expeditions Inc USA in Collaboration with Lions Club International, Ravindra Sarovar, India HRSA Publications, Bangalore, India, pp. 224-230, ISBN: 978-81-947216-7-3, 2021.

Conferences Organized

The Department of Commerce organized its International E-Conference on "Advances in Business and Management in the fluid world" on 21-22 January 2022. Prof. (Dr.) Yogesh Singh Vice-Chancellor, University of Delhi was the chief guest of the conference

An online International Conference on "Water, Food and Nutrition Security for Health and Wellbeing" was held on 13-14 January 2022. It was a two-day conference and witnessed the coming together of various intellectual speakers who shared their insights on the entire subject matter and made the discourse for everyone who joined.

Harithkram, the environmental organisation of SB.SC., held its three-day Youth Conference Delhi



University Sustainability Forum 2020 x Harithkram Model United Nations Environment Assembly 2021 (DUSF'20 x HMUNEA'21) on the theme of "COVID 19 and its impact on SDGs' Targets" on 25-27 October 2021 in the online mode.

CDMS organised a virtual International Conference on Challenges to Disaster Risk Reduction and Resilient Habitat 5-6 April, 2022 in collaboration with the National Institute of Disaster Management Ministry of Home Affairs Government of India, International Geographical Union Commission on Hazard and Risk And United Nations Office For Disaster Risk Reduction

Seminar/Conference Presentations

Department of Commerce

Ms. Dhivangi Dhawan presented a paper titled "Higher Education Institution's Quality and Student Satisfaction a Meta and Sub-Group Analysis" in One Day International E-Conference on "Roles of Human Resources and Organizational Behavior for Business Sustainability in Current Scenario" organized by IPEM in collaboration with GAD-TLC, SGTB Khalsa College, the University of Delhi under PMMMNMTT of Ministry of Education. (2021, February 27)

Dr. Pooja Goel presented a paper titled "Antecedents and Consequences of Work-life balance of Nurses: A Systematic Literature Review and Future Perspective", at International e-conference on Advances in Business and Management -2022 held at Shaheed Bhagat Singh College, University of Delhi on 2022, January 20-21.

Prof. Ruchi Gupta, presented a co-authored paper titled "Sustainability – Is it time for marketing to grow conscience? Exploring through theory, context and methodology approach", at the Sixth International Conference on Emerging Research Paradigms in Business and Social Sciences, organised by the Middlesex University, Dubai from, 2022, February 24-26.

Department of English

Ms. Neeta Singh presented Conference paper titled "Psychology of Evil and Female Subversion in Shakespeare's Macbeth" at the International Shakespeare Conference, 2022, April 21.

Dr. Komal Agarwal Presented a paper entitled "Hyperlocal Deities, Seasonal Festivals and

Mnemonic Rituals of the Marwari Community: Women's Roles in the Preservation of the Intangible Cultural Heritage" at the International Conference on Feminine in Hinduism, organized by Indica at Cotton University, Guwahati from, 2022, March 26-27.

Department of Hindi

Prof. Kamlesh Kumari presented a paper in Two Days National Seminar Organised by Shradanand College Topic: Ram Katha Ek RoopAnek (2021, March 19-20) Department of Geography

Dr. Amrita Bajaj presented a paper on the topic "An analysis in Magnitude of Crime in Delhi" in International Conference on Future Challenges and Sustainable Development Goals: Science to Policy Framework at April, 2021

Prof. Swati Rajput presented a paper Assessing Food insecurity in Rajasthan: A district level analysis in National Conference on climate change and pathways to Self-reliant India: Opportunities and challenges for sustainable development organized by Department of Geography, Faculty of Earth Sciences, Jamia Millia Islamia, Delhi on 2021, March 15-16.

Dr. V.A.V. Raman presented a paper titled "Urban Hydrological System and Issues: A Case Study of Water Disparity" in Delhi at the DGSI XVI International Geography Online Conference, organised by Centre for Geographical Studies, Aryabhata Knowledge University, Patna, on 2021, September 11.

Department of Economics

Ms. Priyanka Singh presented paper on Women Empowerment in India in the international Conference held in New York, US

Other Inter-Institutional Collaboration

CDMS organised a 7-Day Capacity Building Program from March 1-7, 2021 on the theme "Hydro-Meteorological Disaster: Techniques for Measuring, Monitoring and Management of Floods in collaboration with Teaching Learning Centre, Ramanujan College under the aegis of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, Ministry of Education, GOI

CDMS in collaboration with P4CA, Inhabitant, World Urban Campaign, IRPUD, Dress & Sommer, Sustainability and Adaptation Planning had diligently organised a webinar on 6 May 6 2021, on the theme

- “Critical Urban Infrastructure (CI)- Identifying and Assessing Smart and Green Solutions for Efficient Disaster Risk resilience”.

CDMS in collaboration with the National Institute of Disaster Management, Ministry of Home Affairs, GOI successfully organised a 3-day online training Program from 21-23 October 2021, on Disaster Risk Reduction and Resilience.

The Finance and Investment Society organised a webinar in collaboration with Bombay stock exchange and CDSL on the post COVID situation of the financial markets, wherein various speakers with immense experience in the world on investing graced the students with their inspiring words.

Placement Details

265

Number of Companies visited for campus recruitment

55

Extension and Outreach Activities

The Social Outreach Cell conducted the Christmas Drive in an online mode preceding a fundraising

raising quiz post in which eatables were donated to poor children in a slum area on the occasion of Christmas, as a gesture of spreading happiness.

The Social Outreach Cell organised a donation drive at Vishalakshi Foundation. It was conducted offline on campus where students and faculty members were encouraged to donate unused materials so that it could be used by someone underprivileged. All the materials collected were donated at the centre of Vishalakshi Foundation, an NGO based in Gurgaon.

Library Development

The library had a total budget of Rs.18,12,000/-. A total of 894 books purchased / added and 73 journals were purchased/added.

Faculty Strength

Permanent: 86

Adhocs: 71

Financial Allocation and Utilization

Grant Sanctioned (in Rs.):59,05,20,000/-

Grant Utilised (in Rs.):59,03,21,248/-

SHAHEED BHAGAT SINGH COLLEGE (EVENING)



Brief History

Shaheed Bhagat Singh Evening College was established in July 1973 by the Administration of Delhi. It is named after one of the greatest freedom fighters and sons of Indian soil ‘Shaheed-E-Azam’ Bhagat Singh. It is one of the constituent colleges of the University of Delhi, India. The foundational idea of the College is service to the nation as a vital part of one’s life and as a guiding light for the development of society. This idea is inculcated in students every step of the way. In the initial days, this college catered to the needs of those who were

employed and who wanted to enhance their educational qualifications and career prospects. The changing dynamics in education and increasing prospects of higher education led to a reform in our basic idea of imparting education in a restricted manner and opened the doors for all sections of society. The College is now open to all students for undergraduate courses.

Over the years, the College has seen remarkable growth in terms of facilities, infrastructure,

curricular, and extracurricular activities. It offers undergraduate courses in Humanities and Commerce. It has an accomplished faculty of over 100 members dedicated to guiding students in academics and life. The College also has a rich collection of books and journals in its library, the NSS and NCC Rooms, etc. The College offers facilities such as a seminar room, bank, geography and computer labs, girls' common room, first aid, photostat and more. Apart from this, the college has societies to cater to students' interests and shape their career prospects, ranging from dramatics, music and photography to economics, commerce association and capacity building cell. In this era of multilateralism and globalisation, we have not confined ourselves to classroom learning only. We believe in the all-round development of skills through practical knowledge and critical thinking to make students realise their potential and grab opportunities in a fast-changing global scenario.

Major Activities and Achievements

In the academic year 2021-22, the College promoted five more faculty members of the College to Prof. level.

Research Innovation Cell for Grant of Project (RICGP) under the IQAC of the college sanctioned 13 interdisciplinary innovation research projects to the faculty members of the College with each project involving 10 students from the various courses offered by the College. The Cell sanctioned the projects with an aim to promote and support quality-based interdisciplinary innovative research work by college faculty and students.

The College has attempted to perform at its best by organizing several activities in order to engage the students through curricular and co-curricular activities. Various talks, lectures, seminars and webinars were organized. Along with these various fests and competitions were hosted through different cells, societies and departments. Our students initiated and completed social-service projects participated in inter-institutional competitions and brought laurels and accolades to the College.

Honours/Distinctions

Prof. C.S. Dubey (Department of English) was awarded Dr. Sarvepalli Radhakrishnan Distinguished Prof. National Award 2021 in English Language and

Literature, Centre for Professional Advancement, India

Prof. C.S. Dubey (Department of English) was appointed Coordinator/Expert for preparing and recording video lectures for MEG12 (Canadian Literature and Foundation Course in English (FEG2) for Post-graduate and Undergraduate Courses under SWAYAM PRABHA, Indira Gandhi National University, New Delhi.

Prof. S.K. Bandooni (Department of Geography) has been appointed as an Honorary member of the Education in Social Sciences committee (NEP-2020), Social Council of Educational Research and Training Uttarakhand, November 2021.

Shri Saurabh Dubey ((Department of Political Science) has been appointed as a member of the "Upgradation and Modernization of the Parliament Museum" Committee under the National Museum Institute, Ministry of Culture, Government of India.

Students with Distinctions

S.No.	Name of Students	Class
1	SMRITI TIWARI	B. Com. (Hons.), III yr., Sem-VI
2	ASHMITA VERMA	B. Com. (Prog.), III Yr., Sem-VI
3	AMANDEEP	B. Com. (Prog.), III Yr., Sem-VI
4	SHUBHI DWIVEDI	B.A. (Hons.) Geography, III Yr., Sem-VI
5	SAMEEKSHA SINGH	B. Com (Prog.), III Yr., Sem-VI

Publications

Dubey, C.S. (2022). *Kavya Sangraha (Hindi) Sahil ki Ret*. Astitva Prakashan, 1(1), 150.

Bandooni, SK. (2022). *Impact of Migration on Mountain Region: A Comparative Study*. Research India Press, New Delhi, 1(1), 240.

Chandna, V. (2022). Status of Reproductive Health of Women in Himalaya: A Case Study of Selective Villages of Uttarakhand, India. *Journal of the Anthropological Survey of India*, Sage Publication, India, 71(1), 17.

Kumar P. (2021). India's rural development model needs to evolve as occupations in villages change. *The Print*, NA(NA), 1.

Gupta, P. K., Mittal, P., & Kaur, A. (2021). Analysing the time-frequency relationship between COVID-19

and FII trading activities using wavelet coherence analysis. *Global Business and Economics Review*, 25 (3-4), 17.

Kumar D., and Kaur, R. (2022). Paradigm Shift in Economic Activities During Covid-19 Pandemic: a way to UN Sustainable Development Goals-2030. *Research Analysis & Evaluation*, 1 (1), 8.

Gautam, A., Rai, S.C., Kirpa, R., and Sanny. (2022). Impact of anthropogenic and geological factors on groundwater hydrochemistry in the unconfined aquifers of Indo-Gangetic plain. *Physics and Chemistry of the Earth*, NA(NA), 7.

Khan, R., Zeeshan, Haque M.I., Gupta, N., Tausif, M.R., Kaushik, I. (2022). How foreign aid and remittances affect poverty in MENA countries? *PLoS ONE* 17(1): e0261510, NA(NA), 20.

Triveni. (2021). Impact of MNEs' Investments on Pollution Intensive Industries in India: An Empirical Analysis of Indian Liberalization Phase, 'Infrastructure Finance. Navyug Books International, 1(1), 25.

Research Projects

Research Innovation Cell for Grant of Project (RICGP) IQAC, Shaheed Bhagat Singh Evening College, University of Delhi, 1, E-waste Management: A Roadmap Towards Environmental Sustainability, Rs. 1,17,000/-

Research Innovation Cell for Grant of Project (RICGP) IQAC, Shaheed Bhagat Singh Evening College, University of Delhi, 1, Women Entrepreneur: A Study of Rise and Fall in Pandemic in South Delhi, Rs. 1,17,000/-

Research Innovation Cell for Grant of Project (RICGP) IQAC, Shaheed Bhagat Singh Evening College, University of Delhi, 1, Shrinking Urban Centres: Causes and Implications, Rs. 1,22,000/-

Research Innovation Cell for Grant of Project (RICGP) IQAC, Shaheed Bhagat Singh Evening College, University of Delhi, 1, Field Application of Compulsory Core Module Paper of Field Application of Computer core module paper of Environmental Studies for undergraduate courses: a fieldwork-based project in Uttarakhand Himalaya, Rs. 1,30,000/-

Research Innovation Cell for Grant of Project (RICGP) IQAC, Shaheed Bhagat Singh Evening College, University of Delhi, 1, Spatial Analysis of Urban Heat Islands in Delhi: Policy Initiatives to Combat Urban Heat Stress, Rs. 1,14,000/-

Seminars Organized

A seminar titled 'Beyond Covid: A Time & Place for Geography', speaker- Heather J. MCAFEE, Prof. of Geography department in Chair Clark College of USA, organised on 23 Oct. 2021.

A seminar titled 'Language and Communication: Removing Barriers and Optimising Learning', the Concept of Communication and Learning, organised on 16 March 2022, with the speaker- Prof. Tasneem Shahnaaz, Prof., Dept. of English, SAC, University of Delhi.

A seminar titled 'Human History and Evolution, Gender Equity for Sustainable Development organised on 09 Oct. 2021, with the speaker- Prof. S. T. Janetius, Principal, St. John College, Nagaland.

A seminar titled, 'Mental Health Challenges and the Pandemic', organised on 24 June 2021, with the speakers- Dr. Shankar Chowdhury, former senior programme manager, UNESCO and Dr. Hiba Siddiqui, Senior Psycho-Oncologist Max Healthcare, Dr. Shankar Chowdhury, former senior programme manager, UNESCO and Dr. Hiba Siddiqui, Senior Psycho-Oncologist Max Healthcare.

A seminar titled, 'Writing History through the Prism of Environment', held on 12 August 2021, with the speaker- Prof. Mayank Kumar an eminent Historian.

Conferences Organized

National Young Economists Conclave (NYEC), 03 March 2022, Shaheed Bhagat Singh Evening College
A two-day career counselling session, 09 Sept. 2021, Shaheed Bhagat Singh Evening College

Contemporary Public Policy and Emerging Economic Challenges, 21 Sept. 2021, Shaheed Bhagat Singh Evening College

India's Neighbourhood and Extended Neighbourhood Policy, 16 Sept. 2021, Shaheed Bhagat Singh Evening College

'अनुकृति - हिन्दी साहित्य परिषद् के वार्षिकोत्सव 'साहित्य तरंग 2022', 21 April 2022, Shaheed Bhagat Singh Evening College

The Placement Details

278

87%

Number of Companies Visited for Campus Recruitment

17

Extension and Outreach Activities



The College is celebrating 75 years of India's independence 'AZADI KA AMRIT MAHOTSAV' along with the University of Delhi and the whole nation. It is a government of India initiative to celebrate and commemorate the 75th anniversary of progressive India's independence, as well as the glorious history of its people, culture and achievements. The College organized a series of events in tune with the government's initiative to commemorate the 75th anniversary of India's independence, which were based on public participation and revolved around five themes: the freedom struggle, ideas, achievements, action and resolve at 75. The Azadi ka Amrit Mahotsav unit organised an Independence Day celebration on the college premises on August 15th, 2021. The Programme continued with a plantation drive with the slogan "Harit Bharat" and "Ek Pawdha Desh Ke Liye". The Azadi ka Amrit Mahotsav unit organised a History Walk in collaboration with the B.A. Programme Association and the history department of the college on November 10, 2021, at Red Fort under the guidance of Mr Anas Khan, founder of Unzipped Delhi. More than 40 students from different colleges of Delhi University participated in the walk. Under the aegis of Azadi ka Amrit Mahotsav, the college celebrated the 'Mahotsav Azadi ka' festival on the occasion of Republic Day. This festival lasted one week and included several activities, such as a singing competition (Sur Kshetra 26), a poem competition (Veer Ras 26), a debating competition (Pratiwad 26), and a webinar on the theme "Mera Bharat Mera Gantantra. Apart from this, a campaign of seven days, seven fighters and seven lessons was also started, under which various fighters were introduced to the country throughout the week and tribute was paid to them with their thoughts about them.

The NSS unit of the College organised a nationwide plantation drive on 22 and 23 January 2022 in

collaboration with Abhyudaya, IIT Bombay. This campaign was named as grow green gold. This campaign was successfully launched under the supervision of the green India initiative, green Yatra Foundation in which more than 50 volunteers of our NSS unit planted a tree and stood in this fight against environmental and climate change.

Library Development

A national webinar was organised on 23 July 2021 on the topic "DELNET-Resources and Services" that emphasised the importance of the library in higher education. The speaker was Dr. Sangeeta Kaul. The aim of the session was how to effectively access e-resources and services provided by DELNET. Another national-level webinar was organized by the library in collaboration with IQAC on 15 December 2021. The speaker was Dr. Rajesh Singh Delhi University librarian. The speaker advised the audience to use e-Library. The presentation covered different areas of information skills such as search engines, subject directories, meta-search engines, search techniques, citations etc. The library held an orientation & information literacy programme on 14 January 2022 (in online mode) for 1st year students to sensitize them on important information on library facilities, e-services and other activities. An offline national seminar was held on "Personality Development and Career Building" in collaboration with IQAC. The speaker Prof. K. P. Singh (Prof. in the Library and Information Science Department, University of Delhi) briefed the students on various aspects of personality development and career building.

Faculty Strength

101

Financial Allocation and Utilization

(a.) Rs. 27,13,45,000/-

(b.) Rs. 27,71,16,552/-

SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN



Brief history

Shaheed Rajguru College of Applied Sciences for Women, a constituent college under University of Delhi and funded by Government of N.C.T. of Delhi, was established in the year 1989. College offers undergraduate programmes namely B.Sc. (Hons.) in Biochemistry, Biomedical Science, Chemistry, Computer Science, Electronics, Food Technology, Instrumentation, Mathematics, Microbiology, Physics, Statistics, Bachelor of Business Administration (FIA), Bachelor of Management Studies and B.A. (Hons.) Psychology. These programmes provide the platform where the students are equipped with essential and practical knowledge to face the challenging positions worldwide. College has about 1700 students at present hailing from different parts of India and Abroad. College provides an opportunity to the students to excel in sports and co-curricular activities as well. There are various societies in the college like Mukhauta (Dramatics Society), Aaharyaa (Dance Society), Philyra (Music Society), Elvira (Fine arts Society), Shuffle Shots (Photography club), Glamfire (Fashion Society), and Inklings (Literary Society), Ehsaas, Mark Haven, Glotrotters, GirlupNayab, Youth Parliament, Equilibrium, Rakam. There are students' clubs like Robotics Club, Movie Club, Pravridhi Eco Club, Ek Bharat Shrestha Bharat Club, Developer Student Club to enhance their skills for career opportunities. College aims to build their future and impart technical expertise through high quality applied learning.

Major Activities and Achievements

College has been awarded the grade of A+ in second cycle by NAAC with CGPA of 3.29.

College has secured 37th position with a score of 57.17 amongst 1802 participating institutions in the NIRF Ranking 2021.

Centre for Multidisciplinary Research, Innovation and Entrepreneurship is established in college to develop and execute research mindset, innovation and entrepreneurship amongst students, faculty and staff. Centre aims to house and encourage these activities running in the college under one umbrella for its effective execution, funding and end results.

College has started a Multidisciplinary, Open Access, Unpaid, and International, Peer-Reviewed Journal (International Journal of Innovation and Multidisciplinary Research) in the last quarter of 2021.

Honours/Distinctions

College campus is recipient of following awards: Largest Plantation Drive, District Green Champion Award, Sustainable Campus.

Dr. Rekha Mehrotra, Department of Microbiology, was honoured as Eminent Teacher award from International Multidisciplinary Research Foundation, Institute of Higher Education and Research, India on World Teacher's Day, 2021.

Dr. Sneha Kabra, Department of Instrumentation, received Meritorious Teachers award by Delhi Government on 4 March 2022.

Dr. Deepa, Department of Statistics, received National Education Excellence Award' 2021 in 'Econometrics' organized by the International Multidisciplinary Research Foundation (IMRF) on the



Word Science Day and National Education Day, 2021 by the Awards Committee, registered with Government of India, NITI Aayog and NGO Darpan and held on 11 November 2021.

Dr. Jyoti Nishad, Department of Food Technology, received 'SADHNA All India Best Research Award' at Doctorate Level 2021, SADHNA, (Society for Advancement of Human and Nature), Dr. YS Parmar University of Horticulture and Forestry, Himachal Pradesh. She also received Nicholas Appert Teaching Excellence Award 2022 in Food Technology by International Multidisciplinary Research Foundation.

Students with Distinctions

Three student's recipient of Gold medal from University of Delhi.

Ms. Nidhi Rawat of B.Sc. (Hons) Biomedical Science secured I rank in University of Delhi. She secured I position in the college-cumulative result as well.

Ms. Akansha Ghosh of B.Sc. (Hons) Food Technology secured I rank in University of Delhi. She secured I position in the college-cumulative result as well.

Ms. Raveena Rautela of B.Sc. (Hons) Instrumentation secured I rank in University of Delhi. She secured I position in the college-cumulative result as well.

Ms. Ayatri Ray of B.Sc. (Hons) Electronics was I and II-year cumulative topper of B.Sc. (Hons) Electronics.

Ms. Himanshi Juneja of B.Sc. (Hons) Chemistry was I and II-year cumulative topper of B.Sc. (Hons) Chemistry.

Publications

Kaur, J. (2022). Inculcating scientific temper amongst first responders to crime. *Indian Journal of Public Administration*. 68(1): 75-83.

Bajaj, D., Bharti, U., Goel, A., Gupta, S. C. (2021). A Prescriptive Model for Migration to Microservices Based on SDLC Artefacts. *Journal of Web Engineering*. 817-852.

Nishad, J., Dutta, A., Saha, S., Rudra, S. G., Varghese, E., Sharma R. R., Kaur, C. (2021). Ultrasound-assisted Development of Stable Grapefruit Peel Polyphenolic Nano-emulsion: Optimization and Application in Improving Oxidative Stability of Mustard Oil. *Food Chemistry*. 334: 127561.

Sachchan, T., Sharma A., Bangar, A., Titoria, M. (2022). Natural Toxicants as Potential Health

Hazards: An Overview. *International Journal of Multidisciplinary Educational Research*. 11(1): 1-8

Sehgal, H. D., Pratap, Y., Gupta, M., Kabra, S. (2021). Performance Investigation of Novel Pt/Pd-SiO₂ Junctionless FinFET as a High Sensitive Hydrogen Gas Sensor for Industrial Applications. *IEEE Sensors J*. 21(12): 13356–13363.

Sunil K., Agrawal, Y., Chauhan, N. (2021). Morphological Importance of Nanoparticles and its Applications. *Plant Cell Biotechnology and Molecular Biology*. 22(41-42): 139-153.

Sasi, S., Pillai, S., ..., Yadav, A., Bharadwaj, P., Prabhakar, M., Mehta, S., Thakur, S. Current and Prospective Therapeutic Regimens for SARS-CoV-2: Review on Modern Medicine and Alternate Therapies. *Acta Scientific Microbiology*. 4:134-150.

Mago, P., Bhatiya, R., Gosain, N., Awasthi, D. (2022). Bishnoi community model: an Indian Ecological Feminist approach to environment protection. *Ecofeminism and Climate Change*. 3(1) : 56-67.

Research Projects

SERB - Department of Science and Technology funded project entitled, "Design, Virtual Fabrication and Characterization of Floating Gate Field Effect Transistor based Toxic Gas Sensor for Industrial Applications" with a sanctioned amount Rs. 29,90,900/- and Principal Investigator - Dr. Sneha Kabra (Department of Instrumentation).

Patents

Patent holder: Dr. Prachi Singh (Department of Environmental Studies) Patent Granted in 2021 (Patent No. 380921, JNU) . Title of the Indian Patent: "Pyrolysis Reactor for the Biochar Production from Agricultural residues". Authors: M. Patel, R. Kumar P. Singh and D. Mohan.

Patent holder: Dr. Prachi Singh (Department of Environmental Studies). Patent Granted in 2021(Patent No. 201811010032). Title of the Indian Patent: "Rice Husk Iron-Oxide Biochar Composite (RHIOB) and Wheat Husk Iron-Oxide Biochar Composite (WHIOB) for as (III) removal from water", P. Singh A. Sarswat, D. Mohan.

Seminar Organized

Seminar entitled "National Seminar on Vishva Guru Bharat: Exploring the Glorious Past, Promising



Present and the Futuristic Roadmap” was jointly organized by college and Students for Holistic Development of Humanity (SHoDH) and Campus for Open Learning (COL) from 23 to 24 March 2022 at Paintel Memorial Auditorium, Vallabhbhai Patel Chest Institute. Seminar was sponsored by Indian Council for Social Science Research (ICSSR).

Seminar /Conference Presentations

Ms. Asha Yadav presented a paper entitled "Binary MMBAIS for Feature Selection Problem" in the 2021 Sixth International Conference on Computational Intelligence and Communication Networks (ICRCICN 2021) organized by Rajnagar Mahavidyalaya, Birbhum, India from 2021, December 11-12.

Dr. Jyoti Nishad presented a paper entitled “Food Safety Challenges in Indian Street Foods” at International Conference “Food Sustainability: Challenges and Opportunities for the Future” organized by Amity University on 2022, March 31.

Ms. Prabhjot Kaur Sabharwal presented a paper entitled “Calcium fortified bread” at International conference “Food sustainability: Challenges and opportunities for the future” organized by Amity University on 2022, March 31.

Dr. Yashi presented a Paper entitled “An HIV-TB coinfection model with multi drug resistant strain” in an International Conference on Computational Sciences: Modelling, Computing and Soft Computing (CSMCS 2022) held at Manipal University on 2022, March 28-29.

Dr. Sneha Kabra presented a paper entitled “Stability and Reliability Performance of Double Gate Junctionless Transistor (DG-JLT) 6T SRAM” at an International Conference on Industrial Electronics Research and Applications (ICIARA-2021). Delhi, India from 2021, December 22-24.

Dr. Prachi Singh presented a paper entitled “Arsenic adsorption using synthesized iron-oxide biochar nanocomposites: Mechanistic study and application over fields” at the 8th International Congress & Exhibition on Arsenic in the Environment held in the month of June 2021.

Dr. Deepa Joshi presented a paper entitled “Holistic Approach to Health and Well-being”, in the National seminar on Vishva Guru Bharat: Exploring the

Glorious Past, Promising Present and the Future Roadmap during 2022, March 23-24.

Dr. Daya Bhardwaj presented a paper entitled “Impact of Covid-19 pandemic on the mental health of undergraduate students in India: A cross sectional study” in ICSSR sponsored two days National Seminar on “Bharat@75: Social, Economic, Political and Cultural Dimensions” organised by Central University of Haryana in association with SHODH Haryana under Azadi Ka Amrit Mahotsav.

Ms. Rableen Kaur presented a paper entitled “Retention factors in IT sector: An Empirical Study” in an International Conference on Human Resource Management, JDMC, Delhi on 2022, March 04.

Dr. Ritika Chopra presented a paper entitled "A Review on Linear Algebra of Neural Networks" in an International Conference on Contemporary Research in Engineering, Management and Arts organised by National Foundation for Entrepreneurship Development, Coimbatore, Tamil Nadu, from 2022, January 27-29.

Placement Details

56

Number of Companies visited for campus recruitment

34

Wipro, DE Shaw, Intellipaat, Upgrad, Jaro, Planetspark, Wills Tower Watson, EY, College Dekho, ICICI, CIEL, Atom Ai, TopHire, Aon, Emicon, Neem Tree, Visitum Inc, Wise FinServ, Spectral Consulting, Value Prospect and Grapecity.

Extension and Outreach Activities

NSS unit in collaboration with ‘Blood – Connect’ organised an online webinar on ‘Awareness on Blood Donation’. Dos and don’ts of donating blood and consequences of sheer negligence towards health were explained.

A seminar entitled, ‘Prevention of Gynaecological Diseases’ was delivered by Dr. Satinder Kaur, Clinical Lead and Senior Consultant in Gynaecology oncology division, on 5 March 2022.

A Health check-up camp was organized on 10 November 2021 in collaboration with Dharamshila Narayana Super Speciality Hospital.

NSS Unit celebrated the “Nutrition Week” with a theme of “Feeding Smart Right from the Start” from 1 to 7 September 2021.

Library Development

College library is RFID (Radio Frequency Identification system) enabled, which is being used for library housekeeping operation, the system moves beyond security to become tracking system that combine security with more efficient tracking of materials throughout the library, including easier and faster charge and discharge, inventorying, material handling and automated book drop kiosk being used for easier return of books.

The library has 20500 printed books and approx. 1,35,000 e-books, 11 printed journals and many scientific encyclopaedia and periodicals covering all aspect of fundamental science.

The library subscribes to a large number of Electronics Resources through UGC-Infonet, DULIS Electronic Journal and NLIST of Infflibnet, 11 Online Databases on Reference & Citation Sources, 7 online Databases on Bibliographic Sources, 2 Online Databases on Citation Analysis Resources, 5 online Databases on Financial and Statistical Sources, Single databases on Doctoral Theses and 77 online Databases on Full Text Sources. This includes around 49270+ ejournals available in the present library with three WiFi computer laboratories consisting of 80 computers i.e. e-Library-1, e-Library-2 and e-Library-3.

Faculty Strength

119

Financial Allocation and Utilization

Grants Allocated: Rs. 31 crore

Grants Utilized: Rs. 29.73 crore

SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES



Brief History

Shaheed Sukhdev College of Business Studies (SSCBS) is one of the premier institutions of the University of Delhi, imparting path-breaking education in the fields of Management and Information Technology. It was established in August 1987 by the Government of the National Capital Territory of Delhi (GNCTD) on the initiation of the University Grants Commission (UGC) and the Ministry of Human Resources and Development, Government of India (MHRD).

At present, the College offers three full-time graduate programmes under its two departments - Departments of Management Studies (DMS) and Department of Computer Science (DCS) leading to

the award of Bachelor of Management Studies, Bachelor of Business Administration (Financial Investment Analysis) and B.Sc. (H) Computer Science.

The College also offers a post-graduate diploma course in Cyber Security and Law. In the forthcoming academic year 2022-23, the College is hoping to offer B.Sc. (H) in Operational Research. The College emphasizes an interactive mode of education, supported by innovative teaching methodologies. It is designed to stimulate inquiring minds and provide significant exposure to the realities of business processes and challenges. Industry interaction is achieved through guest lectures, industrial tours, industry-based project work, live projects,

internships, and summer training. The strength of the College lies in its highly qualified faculty having industrial experience, dynamic students, supportive non-teaching staff, illustrious alumni, and a supportive and encouraging governing body.

The high standards of excellence give CBS the phenomenal and undeniable edge we are recognized for. These standards are endlessly pushed beyond the horizon. This lays down the foundation of our biggest asset: Unrest. At CBS, we are never content. The inverse correlation between our satisfaction and our progress is an acknowledged and appointed theory at CBS. This is the CBS difference.

What sets CBS apart from other colleges is our recognition that every student is different. At CBS, we strive to identify and maintain that 'difference'. We constantly endeavour to create opportunities for skill development in different areas of interest and to cater to the diverse needs of the students. The fact that CBS does not believe in a one-size-fits-all policy is evident in its placement process, where companies from as many as fifteen sectors, including consulting, insurance, knowledge services, real estate, media, investment banking, PR, IT, shipping, and financial services recruited students.

The curriculum and the college atmosphere promote inquisition, innovation, leadership, and team spirit. Apart from possessing a clear understanding of the fundamentals of management as well as a considerable degree of corporate exposure, our students are resourceful, versatile, and enthusiastic. It is this marked difference that has helped the college set new benchmarks with every placement season.

Major Activities and Achievements

SSCBS under the spirited guidance of its principal, Prof. Poonam Verma has been adjudged as the Best Undergraduate Business School in India in 2022 by India Today Magazine for the third time in a row. The second cycle of NAAC accreditation was done in 2022 and the college was awarded an 'A+' grade with a CGPA of 3.46 valid for a period of 5 years from 26 April 2022. Shaheed Sukhdev College of Business Studies has achieved a rank of 51 in the colleges category for the National Institutional Ranking Framework (NIRF) ranking 2022. The students' placement has been phenomenally successful with the highest package offered INR 36 Lakhs p.a. and an

average package – of 9.88 LPA and the Best Median Salary – of 9 LPA.

Honours/Distinctions

First prize (cash INR 75,000) in the BRAIN WARS case competition organized by Bain & Company.

A team of four students participated in Copenhagen Business School Case Competition 2022 and stood among the Top 20 teams globally out of 1000+ teams across 90 countries that took part.

National First Runners Up (cash prize of 75000 INR) in Kroll One Team Challenge India.

A team of five students secured the Runners Up position in the IMA Student Case Competition.

First position at Pandemonium- XLRI Jamshedpur.

First position at Polygon's Build IT Hackathon (NFT/Gaming).

Global Runner-Up in HighBridge Global Case Competition 2022.

Mr. Amit Kumar was awarded the best teacher award by the Govt. of NCT of Delhi on 7 March 2022.

Students with Distinctions

S.No.	Name of Students	Class
1	Ms. Deeksha Agarwal	BMS
2	Ms. Mallika Mehrotra	BBA (FIA)
3	Mr. Anshuman Gupta,	B.Sc. (H) Computer Science
4	Mr. Shashvat Kumar	PGDCSL
5	Mr. Sheikhar Gautam	PGDCSL

Publications

Rajpal, S., Agarwal, M., Kumar V., Gupta, A. and Kumar N. (2021). Triphasic DeepBRCA-A Deep Learning-Based Framework for Identification of Biomarkers for Breast Cancer Stratification. *IEEE Access*, 9, 103347-103364.

Hasan A., Kausar A., and Verma M. (2021). An EOQ model for non-instantaneous deteriorating items with ramp-type demand in a two-warehouse facility. *International Journal Services Operations and Informatics*, 11(2/3), 115-158.

Bijoy, K., & Shivam, S. (2021). COVID-19 and Monetary Response of Reserve Bank of India: A

Critical Review. *Archives of Business Research*, 9(10), 209-222.

Jain R & Verma M (2021). Block Chain: A Pathway to Improve Performance Measures of Supply Chain. *International Journal of Services, Operations, and Informatics*, 11(2/3), 300-314.

Kumar N., Narain, & Vjj, M. (2021). Bank Monitoring as an Alternative Corporate Force and its Impact on the Value of Borrower. *Business Analyst*, 42(2), 43-64.

Kumar R., Thakur, M., & Kumar R. (2021). Challenges and Opportunities for Social Media Marketing in Rural India- An Empirical Study in Himachal Pradesh. *Oeconomia Copernicana*, 12(4), 474-489.

Kumar R., & Kumar R. (2021). E-Entrepreneurship in Indian Rural Market: An Overview. *Anvesak*, 51(02), 08-21.

Sushmita (2021). An Evaluation of Mono-product Economies & examining the sine qua non for diversification - In West Asian Region. *Journal of Accounting Research. Business and Finance Management*, 2(2), 75-81.

Sushmita, Singh SK., Gupta, A., Bhardwaj, N., and Singh K. (2021). Trust, Reciprocity, and Religion in a University Setting: An Experimental Approach. *Journal of Sales, Service and Marketing Research*, 2 (2), 24-37.

Nigam, N. K., Singh K., & Arya, P. (2022). Impact of gender diversity in a boardroom on risk-return profile of Indian corporates. *Journal of Indian Business Research*, 14(3), 213-230.

Singh V., Thakral, S., Singh K., & Garg R. (2022). Examining cognitive sex differences in elite math intensive education: Preliminary evidence from a gender inequitable country. *Trends in Neuroscience and Education*, 26, 100172.

Gautam, P., Maheshwari, S., Hasan, A., Kausar A., & Jaggi C.K. (2022). Optimal Inventory Strategies for an Imperfect Production System with Advertisement and Price Reliant Demand under Rework Option for Defectives. *RAIRO-Operations Research*. 56, 183-197.

Verma, M., Jain, R., & Jaggi, C. K. (2022). Impact of Price-Sensitive Demand and Premium Payment Scheme on Bullwhip Effect. *International Journal of Information Systems and Supply Chain Management*, 15(1),1-24.

Bijoy, K. (2022). Indo-China Trade Relationship in Last Quarter Century: An Empirical Analysis. *Delhi Business Review* 23(1).

Sushmita, Sahewala, V., & Jain, V. (2021). Analysis of Relationship amongst Money Supply, Prices and Output in India. *Journal of Accounting Research, Business and Finance Management*, 2(2), 62-74.

Membership in Editorial Boards of Journals

Dr. Amrina Kausar, Associate Editor, *International Journal of Services, Operations, and Informatics*, ISSN: 1741-539X, 1741-5403, InderScience Publishers.

Prof. Sameer Anand, Associate Editor, *International Journal of System Assurance Engineering and Management*. ISSN: 09764348, 09756809.

Dr. Abhishek Tandon, Associate Editor, *International Journal of System Assurance Engineering and Management*. ISSN: 09764348, 09756809.

Dr. Rishi Rajan Sahay, Associate Editor, *Journal of Multi-Disciplinary Engineering Technologies*. ISSN online: 2581-9372.

Dr. Anamika Gupta, Advisory Panel Member, 2nd International Conference on A Paradigm Shift in Managerial Practices and Innovations: Leading Through Technology and Business Models, Bhagwan Parshuram Institute of Technology.

Dr. Anamika Gupta, Editorial Board Member, *International Journal of Data Analysis Techniques and Strategies*, InderScience Publishers.

Seminars Organized

A seminar titled 'Targeting Your Dream Company', Career Development, organised on 31 August 2021, with the speaker Ms. Megha Gupta, Amazon, Bangalore, Software Developer engineer.

A seminar titled 'Trends in the Industry, Trending Technology', was held on 31 Aug. 2021, with the speaker Ms. Kajal Gupta, Morgan Stanley, Software Engineer, Technology.



A Webinar on Laws for Start-up, Start-up Initiatives, 12 Feb. 2022, with the speaker, Ms. Abha Kashyap, Founder of KPA & LLP, Start-up Lawyer.

Conferences Organized

5th International Conference on Innovative Computing and Communication (ICICC 2022), 19-20 Feb. 2022, Self-financed.

Seminar/Conference Presentations

Nidhi Kesari on “Evaluation of Credit Management System” at International Conference on Global Financial and Business Environment held online on 2021, December 23-24.

Nidhi Kesari on “IPO’s and Investors Dilemma” at International Conference on Management Research Organized online on 2022, February 26-27.

Madhu Totla on “Does the adoption of IFRS affect IPO Under-pricing: Evidence from India” at All India Accounting Conference and International Seminar on Accounting Education and Research held at Osmania University, Hyderabad India 2021, December 18-19 (Best Paper Award).

Madhu Totla on “Short-term IPO performance amidst fear of Covid-19 pandemic” at National e-conference on Emerging Trends in Accounting held at GITAM Hyderabad Business School on 2021, October 29 (Third Best Paper Award).

Saumya Jain on “Impact of IFRS on Financial Statements and Ratios: Evidence from India” at International E-Conference on Advances in Business and Management held online on 2022, January 20-21.

National/International MoUs Signed.

The University of Valladolid Spain, Korea Institute of Digital Convergence, South Korea, National Institute of Technology Patna and Universal Innovator for the 5th International Conference on Innovative Computing and Communication.

ICSSR for a National Seminar on the Role of IT & Management in Making Atmanirbhar Bharat.

Deen Dayal Upadhyaya College University of Delhi for a National Workshop on Design Thinking, Critical Thinking, and Innovation Design.

NSE Academy Ltd for running NSE Academy Certified Capital Market Professional (NCCMP) course.

BSE Institute Ltd (BSEIL), an arm of the Bombay Stock Exchange (BSE) for running Financial modeling and Algo Trading (FMAT) course.

Mahatma Hansraj Faculty Development Centre for Digital Image Processing and Analysis: Applications with Practical.

YStart Innovation Labs for running the Certificate Course on Applied Financial Technology.

The Placement Details

221

91%

Number of Companies Visited for Campus Recruitment

50 (Consulting, Investment Banking, Data Analytics, Fast Moving Consumer Goods, Technology, Advisory, and E-Commerce Firms).

Extension and Outreach Activities

SSCBS stands with the motto “We rise by lifting others”. The goal of all outreach activities undertaken at SSCBS is to identify major social problems affecting the lives of people and take steps to overcome those. Moreover, SSCBS believes in producing physically, mentally, emotionally, and socially healthy citizens for tomorrow. Various activities for the betterment and upliftment of society and the all-round development of students are undertaken through societies of the College. NSS and Kartavya (the Social Service Forum and NSS unit of SSCBS) conduct activities such as cleanliness drives, plantation drives, clothes-donation drives, wishing-wall (fulfilling the wishes of underprivileged children), bicycle rallies, health check-up camps, blood donation camp, blood stem cell donation camp, awareness programmes and informative webinars on important social issues like gender equality. During the Covid-19 pandemic, NSS verified leads and took measures to spread awareness regarding necessary precautions. Kartavya organized webinars and workshops on women safety and gender equality under Project Muskaan, on cyber security under Project Sangrakshan, Mental Health sessions with professionals under Project Chetna, plantation drive, documentary screenings, case competitions, sports competitions, quiz competitions, NGO visits under project Kilkari, visits to animal shelter under Project Furry, wishing wall (wishes of underprivileged

children were brought to life and fulfilled), Vivante'22 (the philanthropic fest of SSCBS), Viti'21 (the annual Diwali mela) and literary competitions that were intended to throw light on various social issues. Rotaract SSCBS, an international social service chapter of Rotary International, addresses important social issues. During the last year, the society worked on two long-term projects - Project Srijan, which is a venture aimed at revolutionizing the e-waste management industry in India, and Project Kamakhya, which addresses the need of menstrual awareness and economical and sustainable sanitary napkins. Apart from this, Rotaract has a research department that works constantly in bringing about new projects by identifying prevalent issues in our society and devising innovative and feasible solutions for the same. Enactus, the social entrepreneurial cell of SSCBS undertook two projects in the last year - Project Pravaah, an endeavor to curb indoor air pollution while reducing the harmful effects of stubble burning, and Project Basera, aimed at inculcating financial and social self-sufficiency among the women in homeless shelters in Delhi. Under Project Pravaah a low low-cost efficient three-layered air purifier was designed, the concept of stubble pots and manure was introduced wherein farmers are given the monetary benefit of not burning stubble and selling it to the Pravaah team. Project Basera also includes large scale sensitization of different sections of society, like different RWAs, schools, old-age homes coupled with extensive community engagement with experts and focused group discussions to create awareness about the subject. Connecting Dreams Foundation SSCBS organized a session on mental health to combat the mental stress that today's youth faces. The interactive and highly engaging session was attended by students from SSCBS, other colleges from the university, and from other universities. The society undertook a student-led social entrepreneurship initiative, Project Hunar, as part of the Connecting

Dreams Foundation aimed at upskilling (thereby financially uplifting) women and children by providing vocational training and teaching them how to make eco-friendly products that also add economic value to society. The Eco Club society organizes environment-centric activities and takes up projects towards the same cause. Eco Club comes under the Dept of Environment and plans to spread education about waste segregation, biodiversity, and environmental pollution.

Library Development

The library is spread across two floors covering an area of approx. 1161 sqm. and has a reading room for 218 students and a research section for faculty members along with a reprographic facility. The library has added 196 new titles to its collection and the total number of books in the library is 23,661. In addition, the library subscribes to 56 magazines and journals of national and international repute. An approximate budget utilized for the purchase of books, magazines/journals, newspapers, and membership fees for institutional membership of DELNET/NLIST is Rs. 6,10,022/-

Faculty Strength

Permanent: 32

Adhoc:09

Financial Allocation and Utilization

Rs. 16,80,00,000/-

Rs. 16,80,00,000/-

Other Significant Information

Verma, V., Anand, S., Kapur, P. K. & Aggarwal, A.G. (2022). Unified framework to assess software reliability and determine optimal release time in presence of fault reduction factor, error generation, and fault removal efficiency. International Journal of System Assurance Engineering and Management.

Shivaji College



Brief History

Shivaji College was founded in 1961 by Dr. Panjabrao Deshmukh, the then Union Minister for Agriculture. The College began its journey with 20 teachers and 400 students and offered courses in B.A. and B. Com. pass and pre-medical studies. It operated from a temporary structure in Matiala village near Najafgarh and functioned with minimal facilities. A decade later, in 1976, the College was granted its own plot of land in the present location of Raja Garden. The unwavering dedication of the principals and staff through the years provided a thorough grounding, changing the narrative of the fledgling institution into a successful, constituent college of the University of Delhi, committed to imparting educational rigour to the students and working towards their overall welfare. Shivaji College now boasts of 16 departments, offering 20 undergraduate courses, 3 postgraduate courses, and a strength of 3756 students.

"Transform One Life, Transform the Nation" is the vision of Shivaji College. The College strives to attain excellence in all aspects and aspires to become a premier institution. It envisions itself as a seat of not only academic learning but also holistic development. The College endeavours to create a healthy and congenial environment conducive to innovation and progressiveness. This is evident in the innovative and progressive ideas with which academic and extracurricular measures are implemented. Quest for knowledge, freedom of expression, and respect for culture is the hallmark of the College.

Major Activities and Achievements

The College was ranked 31 among the Science colleges and 26 in Commerce and 39 in Humanities by India Today in 2020-21. The College has been ranked 70 by NIRF 2021 and 30 by Outlook India. Shivaji College was also selected by the Department of Biotechnology (DBT) under its Star College Scheme, receiving financial support for four departments; namely, Zoology, Botany, Chemistry, and Biochemistry. The College has also been awarded the Zee Hindustan Award for Education Excellence 2021 in September 2021. The year-long Diamond Jubilee Celebrations of Shivaji College concluded through a grand event. Shri M. Venkaiah Naidu, the Honorable Vice President of India was the Chief Guest of the Concluding Event, held on 25 August 2021 where he addressed a large gathering virtually and lauded the efforts of Shivaji College as a nation-building institution. Shivaji College is one of the 17 colleges to get approval to establish academic linkages in remote areas under the scheme. The College has signed an MoU for a period of five years with the following partner institutions and is making available its expertise, knowledge, and experience of the faculty members, library resources, and other academic facilities.

Sikkim Government College, Burtuk, Gangtok, East Sikkim (737101), Sikkim
Himalayan Degree College (University of Jammu), Rajouri, Jammu, and Kashmir (185131).



Honours/Distinctions

Prof. Khurshid Khan, Best Lecture Award of Department of Higher Education, Delhi Government on 4 March 2022.

Dr. Richa Arora was awarded "Louis Pasteur Teaching Excellence Award 2022" in Chemistry by International Multidisciplinary Research Foundation on January 26, 2022.

Dr. Vikas Sharma "Dr. Sarvpalli Radhakrishnan Best Teacher award 2021" in appreciation of his dedication and commitment to teaching and research in socio linguistics on 5 September 2021 Organised by Centre for Professional Advancement Continuous Education CPACE. The Indo-Pacific Teaching Excellence Award-2021 in recognition of the consistent superior performance in Hindi Language and Literature on the occasion of World Teachers Day by International Multidisciplinary Research Foundation.

Neetu Rani received the prestigious "Dr. Sarvepalli Radhakrishnan Best Faculty Award 2021" in appreciation of the dedication & commitment to Teaching & Research in "Mathematics" conferred on 5 September 2021, awarded and acknowledged by the Centre for Professional Advancement Continuous Education.

Lt (Dr.) Deepti was awarded Yuva Soch Ratan Puraskar for contribution to NCC by Yuva Soch Army, an NGO, on 1 August 2021. Received an ADG award for excellence in services in NCC as Associate NCC officer at NCC Bhawan, Rohini, New Delhi on 30 January 2022.

Students with Distinctions

S.No.	Name of Student	Class
1	Ayush Choudhary	B.A H Economics
2	Sejal Munjal	B Com Honors
3	Rishta Nadani Singh	B.S.c Honors Botany
4	Bharti Aggarwal	B.A H Political Science

Publications

Prem, G., Yadav, U., and Sundd, M. (2021). A GX2GX3G motif facilitates acyl chain sequestration by *Saccharomyces cerevisiae* acyl carrier protein. *Journal of Biological Chemistry. Journal of Biological Chemistry.*

Roshan, R. (2021-22). Insights into COVID-19 Vaccine Development Based on Immunogenic Structural Proteins of SARS-CoV-2, Host Immune Responses, and Herd Immunity. *MDPI*(October), 2949.

Kant, N., Perumal J., and Chitra. (2021). Analysis of sebaceous gland carcinoma-associated genes using network analysis to identify potentially actionable genes. *South Asian Journal of Experimental Biology*, 11.6(.), 2230 9799.

Sachdeva, M.K., and Singh D.K. (2021). Method validation using 14c-chlorpyrifos as an internal standard analyte to determine the uncertainty and variability in multi-step processing of potato during pesticide residue analysis. *International Journal of Entomology Research*, 6(4), 23-28.

Priyanka, K., Trisandhya, P., and Kumar A. (2021). Partial Optional Randomized Response Technique with Calibration Weighting to adjust Non-Response in Successive Sampling. *Communications for Statistical Applications and Methods*, 28(5), 493-510. Gupta, A., Kumar S., Sarma, R.D., Garg P.K., and George, R. (2021). A Note on the Generalized Nonlinear Vector Variational-Like Inequality Problem. *Journal of Function Spaces*, Art ID-4488217(2314-8896), 7.

Singh R., Shukla, A.K., Yadav, R., Gautam, K.K., Biswas, P., Rana, O., and Gaur, S.S. (2021). The Study of a System of Non-Homogeneous Equations Using Matrix Exponential Method and Analysis with SCILAB Software 6.1.1. *Journal of Physics: Conference Series/IOP PUBLISHING*, 2223 (2022) 012001(2223), 1-12.

Raman, M., Sharma K.K., Chaudhary, K., Samantara, R., Nayak, K.M., and Kumar R. (2021). Modeling the Success Factors of Entrepreneurial Women Globally. *OECONOMIA COPERNICANA*, 2(13), 1033-1045.

Kumar A., Sharma C., and Kumar A. (2021). *NIU International Journal of Human Rights*. Employees' CSR perception about companies during COVID-19 pandemic: A comparative case of TATA group and Reliance Industries, 8(3), 243-250.

Gautam, K.K. (2021). A Survey on Image Encryption Techniques Enabled with the Internet of Things (IoT). *Design Engineering*, 6(6), 205-213.

Research Projects

SERB, 2019-22, "Development of Tuned Estimation Methodologies for Modelling Non-Sampling Errors in Survey Sampling" Reference No.: MTR/2019/000329, Rs. 6,60,000/-

DBT STAR College, 2021-22, Disseminating Antimicrobial Resistance in Food Chain using Blended Learning Approach, Rs. 30,000/- Approx.



DBT STAR College, 2021-22, Role of Medicinal Plant for Sustainability of Environment, Rs. 30,000/- Approx.

DBT STAR College, 2021-22, Effectiveness of Nudges in Waste Management Policy Making, Rs. 30,000/- Approx.

DBT STAR College, 2021-22, Interplay of Genetic and Lifestyle Risk Factors in Cardiovascular Disease, Rs. 30,000/- Approx.

Seminars Organized

A seminar titled 'Reconfiguring Diaspora in Art, Literature, and Cinema: Contemporary Global Perspectives' 23-24 March 2022, with the speaker, Prof. Khal Torabully, Poet, Indologist, and Cultural Theorist from Aameena Gafoor Institute (UK).

One-week National Faculty Development Programme on the topic, 'Multivariate Analysis and Structural Equation Modeling', 27 Nov. 2021, with the speaker, Prof. Alok Kumar Chakrawal, Vice-Chancellor Guru Ghasidas Central University (GGCU), Bilaspur.

A seminar titled 'Multivariate Analysis & Structural Equation Modeling, Multivariate Analysis & Structural Equation Modeling', on 01 Dec. 2021, with the speaker, Dr. Ajay Chauhan, Co-Founder, and Chief Consultant Research Shiksha New Delhi.

A seminar titled 'Russia-Ukraine Conflict: Issues and Challenges, International Relations', on 07 March 2022, with the speaker, Major General Janki Pan, Chairman, Technology Think Tank, Indian Army.

A seminar titled, 'Viewing the History of India through the Prism of the Horse', on 24 Jan. 2022, with the speaker, Dr. Yashawani Chandra, fellow, CSDS.

Conferences Organized

"National Education Policy 2020", on 04 Oct. 2021, self-funded.

"Technologies for smart green connected Society" in collaboration with Yamagata University, 30 Nov. 2021.

"Genetically Engineered Vaccines: From Clone to Clinical Trials", 16 Aug. 2021.

"Russia-Ukraine Conflict: Issues and Challenges", 07 March 2022.

Seminar/Conference Presentations

Dr. Prabhavathi presented a paper at the National Conference on "Realms of Plant Diversity: Explorations with Novel Perspective", organized in

virtual mode by the Department of Botany, Maitreyi College on 2021, August 24.

Dr. Kiran Bamel participated in the 2nd International Conference on "Climate Change and Its Effect on Environment, Food and Society" held on 2021, June 15-16.

Dr. Misha Yadav presented a paper entitled "Role of phyto-oxylipins against plant pathogens" at the two-day International Conference on "Insect and Plant Biology" organised by Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi on 2021, October 07-08.

Dr. Richa Arora presented a paper entitled "Effect of soil pH on germination and growth of *Triticum aestivum* and *Zea mays*" at the 2nd International Conference on "Chemical, Bio, and Environmental Engineering (CHEMBIOEN-2021)" held on virtual mode at Department of Chemical Engineering, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab held from 2021, August 20-22.

Dr. Rajinder Singh presented a paper on "Sustainability Reporting in India: Concepts, Theories, and Frameworks" at the 1st International Conference on "Emerging Issues in Business and Economic Research" organized by the Department of Commerce, Rajdhani College, the University of Delhi on 2021, December 17-18.

Dr. Lalita Rana Presented a paper in ICSSR sponsored national seminar on "Forces and Consequences of Disappearing Ephemeral Jojri River in Rajasthan" organized by D. D. College, Dehradun on the theme: 'Migration and Sustainability of Rural Settlement' from 2022, January 30-31.

Dr. Preeti Tewari presented a paper at the International Conference on "Changing Dietary Preferences, Food Security and Food Safety" organized by the Department of Geography, Shaheed Bhagat Singh College, University of Delhi on the theme: "Food, Water and Nutrition Security for Health and Well-being" on 2021, December 13-14.

Dr. Bharat Ratnu presented a paper at International Geographical Union IGU India organised an international e-conference on the Implication of COVID-19 on Local and Regional Sustainable Development: A Global Perspective. Presented a



paper titled: Water stress situation during COVID-19: A micro-level study of Ajmer district, Rajasthan.

Dr. Kumari Priyanka presented a paper at the International Conference on 'Statistics and Data Science: Theory and Practice for Progress and Prosperity' in conjunction with the 41st Annual Convention of the Indian Society of Probability and Statistics held during 2022, March 11-13 and presented a paper entitled "Analyzing the behaviour of a general class of estimators of population mean in presence of correlated measurement errors".

Dr. Virat Jolli presented a paper titled, 'Corona Virus and Our Environment' at the 5th International Congress on Advances in Bioscience and Biotechnology, Science Award 2021, held on 2021, August 23-27, Hybrid, Sarajevo, Bosnia, and Herzegovina.

Other Inter-Institutional Collaboration

The departments of Biochemistry, Botany, Chemistry, and Zoology of Shivaji College were awarded with a financial grant of Rs. Eighty-two Lakh (Rs. 82 lakh) under the illustrious Star College Scheme in 2019. Upon the successful completion of one year, an academic audit was conducted by the Advisory Committee of DBT, Star College Scheme, and was awarded the Grade "A" in January 2021. With the help of the Star College Scheme grant, the Department of Biochemistry, Botany, Chemistry, and Zoology were able to carry out a total of 67 additional experiments, 16 in-house projects, 10 workshops, lectures with 34 invited speakers, 13 Summer training programmes, 21 educational lab visits/field trips, and 16 outreach activities. To upgrade the technical skills of the laboratory staff, 2 Lab Skill Training Programmes (Inter and Intra) were organized by the departments. Four colleges in remote areas across the country were also mentored by the departments under SCS, Shivaji College. In 2021, departments under SCS became knowledge partners with Jawahar Navodaya Vidyalaya, Faridkot under the Vigyan Jyoti Scheme, Phase II (An initiative of the Department of Science and Technology, Govt. of India).

The Number of Students Placed

63

Number of Companies Visited for Campus Recruitment

University of Delhi: 99th Annual Report 2021-22

33

Extension and Outreach Activities

The Department of Physics, Shivaji College is now a network Institute of IIRS-ISRO Outreach Programme. IIRS-ISRO Outreach programme on "Geo-informatics for Biodiversity Conservation Planning" was conducted on 6-17 December 2021 and "Overview of Geoprocessing using Python" was conducted on 17-28 January 2022. Shivaji College was one of the nodal centres of the outreach programme. Under these programmes, a total of 22 students from various departments of Shivaji College registered and nine students successfully completed these courses and got certificates.

The College organised an offline Menstrual Health Awareness Camp on 6 March 2022 for the underprivileged women under 'Project SaNa'. A field visit was organized to Rain Basera, Tagore Garden to distribute SaNa pads among the underprivileged women around the area. It also participated in the Government Vaccination Drive that was organized in Rajouri Garden on 11 October 2021.

The College organised a 'Sanitary Pad Donation Drive' on 8 March 2022. The Society also created awareness about 'Government Schemes for Girl Child' on 24 January 2022. The NSS students volunteered for 'Yamuna Mission', run by an NGO which conducts plantation drives alongside the banks of River Yamuna.

A Blood Donation Camp was organised by University of Delhi on 7 September 2021 in which NCC cadets donated blood.

NCC cadets organised an anti-Pollution Drive During Diwali – A Foot Policing and Awareness Campaign was conducted before Diwali from 7-15 November 2021.

A Plantation Drive was organized on 28-31 August 2021 on the theme "Each One. Plant One". Due to the lockdown, all the saplings were planted by students and teachers at/near their houses.

Library Development

The College Library is fully automated with KOHA Software and is RFID enabled. Users can self-issue and return books and search them through Campus OPAC. It has a rich collection of print and electronic resources, which includes books, journals, magazines, and newspapers. During 2021-22, the

college library has added 1647 books and 08 CDs to its collection and now it has a total of 82180 books and 731 CDs respectively of various subjects. It subscribed to 09 journals, 21 magazines and 15 newspapers to meet the academic needs of the users and keep them abreast with the latest developments. The library also offers free access to a large number of electronic resources within the College Campus and remotely through Delhi University Library System, NLIST, and DELNET.

To cater to the information needs of differently

abled users, the library has 304 Braille books and 33 CDs. In addition to this, it also has 09 iPods and 33 Angels audio players.

Faculty Strength

195

Financial Allocation and Utilization

Grant sanctioned- Rs. 60,40,00,000/-

Expenditure- Rs. 62,01,43000/-

SHRI RAM COLLEGE OF COMMERCE



Brief History

Established by Sir Shri Ram, renowned industrialist and nation builder, as the first specialized college for commercial education in the University of Delhi, Shri Ram College of Commerce had its humble origins as the Commercial College in a small bungalow at Darya Ganj in 1926. Today, with over nine decades of excellence, Shri Ram College of Commerce is a pioneer in the field of Commerce, Economics and management education in India. With a vision of being “A College of Global Choice” driven by a mission of “Achieving and Sustaining excellence in teaching and research, and enriching local, national and international communities through the research, the skills of alumni, and the publishing of academic and educational materials”, Shri Ram College of Commerce aims at the integration of the highest standards of quality in every aspect of its institutional functioning, from imparting education to the development of the nation. Over ninety years of an ever-evolving existence has enabled the College to

specialise and excel extensively in the knowledge, application, value, principle, ethical, and society-oriented delivery of the discipline of commerce, economics, and management. As an enlightened institution of academic excellence, the College is devoted to enlarging, enhancing, and enriching the horizons of academic, professional, personal, and social growth of the global academic community and simultaneously engaging in broadening the scope of its institutional, social, and national outreach.

Major Activities and Achievements

The history of Shri Ram College of Commerce sets the stage, the benchmarks, and the legacy for the College to sail steadfastly and unwaveringly toward its journey of being an Institution of Global Eminence. The Value-Added Committee of SRCC has launched contemporary courses such as ‘Data Analytics with R’ and ‘A Star Program’ to name a few, in collaboration with CIMA-AICPA to augment students’ skills to bridge the industry-academia gap. ‘IQAC Faculty

Lecture Series' and 'Distinguished Lecture Series' on contemporary themes are regularly held. Free counselling services to all stakeholders provide support and facilitate adaptive behaviour. Extra-Curricular Activities, including outreach and extension programmes, ensure learning of interaction dynamics. The student-led societies such as National Service Scheme, Vitthshala, Enactus, and Connecting Dreams Foundation, have implemented multiple social outreach programmes. The College represents the exuberant synergy of its teaching and non-teaching staff who perform their duties with dedication, passion, and commitment. In pursuit of its allegiance to promoting environmental sustainability, the college has undertaken a multitude of measures towards waste management, water conservation, energy conservation, and other green initiatives. MoUs have been signed with international institutes to bolster the seamless cross-border transfer of knowledge and expertise. The extension activities in the institution look beyond didactic learning to promote the well-rounded development of students who can lead the world to make a better future.

Honours/Distinctions

Dr. Mallika Kumar Associate Prof., SRCC was awarded the Best of International Region award at the ACBSP Annual Conference, Miami 27 June 2021 (virtual). Ms. Kavita Kamboj, Assistant Prof., SRCC received the best paper award in the track of marketing for presenting a research paper titled "Power of healthiness, happiness while impressing others". Ms. Kamaldeep Kaur Sarna, Assistant Prof., SRCC received the best paper award for research paper titled "Artificial Intelligence and Policy Challenges Circumventing the Insurance Sector" at the International Conference 'Insurance 2030 - The Impact of Artificial Intelligence on the Future of Insurance', organized by Sri Ramakrishna College of Arts and Science, Coimbatore with Insurance Institute of India, Mumbai on 29 October 2021.

Students with Distinctions

S.No.	Name of Students	of Class
1	Yuvraj Gulati	B.Com (H)
2	Riya Taneja	B. Com (H)
3	Priya Ratusaria	B. Com (H)
4	Rachit Wadhwa	B.A. (H) Economics
5	Mridul Sureka	B.A. (H) Economics

Publications

Kaur, S. (2021). Determinants of Energy Intensity Trends in Indian Metallic Industry: A Firm-level Analysis. *Vision: The Journal of Business Perspective*, NA(NA), 09722629211004293.

Sharma C.S. (2021). Moderating Impact of Foreign Financing Government Ownership, Firm Liquidity and Size on Leverage. *Finance India*, 35(2), 349-374.

Bhakri, S. (2021). Determinants of Foreign Exchange. *International Journal of Research-Granthalaya*, 9(2), 229-240.

Bhakri, S. (2021). Macroeconomic Indicators of Foreign Exchange Reserves in India. *International Journal of Research-Granthalaya*, 9(2), 229-240.

Kant, R. (2021). Can Narrative Economics Justify Economic Fluctuations and Inequality? An Approach from micro to macro perspective. *Theoretical Economics Letters*, 11(1), 1.

Rana, G. (2021). Modelling the barriers to multistakeholder collaboration for COVID-19 pandemic response: Evidence from Sub-Saharan Africa. *International Public Management Journal*, 25(2), 192-216.

Mittal, A. (2021). Size effect alive or dead: Evidence from European. *Cogent Economics and Finance*, 9(1), 1897224.

Sardana, V. (2021). Does Gender Diversity on Board Promote Corporate Social Responsibility? An Empirical Analysis of Sustainable Development Goals. *Australasian Accounting, Business and Finance Journal*, 15(5), 22-40.

Aggarwal, P. (2021). Synthesizing the Affinity between Employees' Internal-External CSR



Perceptions and Work Outcomes: A Meta-Analytic Investigation. *Business Ethics, the Environment & Responsibility*, 10.1111/12451.

Aggarwal, P. (2021). Employee-level Consequences of Perceived Internal and External CSR: Decoding the Moderation and Mediation Paths. *Social Responsibility Journal*, 02-2021-0053.

Journals

Dr. Naveen Mittal. (January 2021 – June 2021). *Business Analyst*. Bi-annual, 1(42), 1-174

Dr. Naveen Mittal. (July 2021 – December 2021). *Business Analyst*. Bi-annual, 2(42), 1-140

Dr. Naveen Mittal. (January 2022 – June 2022). *Business Analyst*. Bi-annual, 1(43).

Dr. Rajeev Kumar. (2021). *Strides- A Students Journal of Shri Ram College of Commerce (ISSN 2581-4931 Print)*. Bi-annual, 5(1 and 2).

Seminars Organized

A seminar organised on Innovation and Product Leaders, Accenture, Guesstimates Case Solving, Skill-sets Development, on 20 Aug. 2021 with the speaker, Mr. Priyank Ahuja.

A seminar organised on How to Deal with Anxiety and FOMO in College, Well-Being, on 29 Aug. 2021, with the speaker, Mr. Mehar Sindhu Batra, Founder, And CEO, MSB Vision.

A seminar organised on Group Discussion Preparation, Career Progression, 01 Sept. 2021, with the speaker, Daksh Sethi, Founder, Guby Rogers.

A seminar organised on Roadmap to UPSC With GS Score, Career Progression, 10 Oct. 2021, with the speaker, Mr. Haris Bin Zaman, I.P.S, 2017.

A seminar organised on Career Selection for Nation Building, Career Progression, 05 March 2022, with the speaker, Nila Mohanan, Director of Department of Personnel and Training, Government of India.

Conferences Organized

Titled 'Growing synergies between finance and technology' held on 1 March 2022, Self-funded

Seminar/Conference Presentations

Paper presentation by Vikki Sharma Assistant Prof. SRCC at The Two-Day National Conference "Financial Management for Effective Control of COVID

Pandemic" Organized by Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur (C.G.), 2021, May 15-16. The topic of the presentation: A Framework for Renewal for MSMEs during COVID- 19.

Paper presentation by Purnima Meena, Assistant Prof. SRCC at the National Seminar on 'Unlocking Education: A Paradigm Shift', organized by Vivekananda College in collaboration with Government Model College, Deithor, Assam on 2021, July 15. The topic of the presentation: Digital Education: Transformation Mechanism during Covid-19.

Paper Presentation by Vikki Sharma Assistant Prof. SRCC at The One-Day International Conference "Implication of COVID-19: Problems and Consequences" Organized by V. P. Institute of Management Studies and Research, Sangli, 27 August 2021. The topic of the presentation: Spirituality a gift in stealth when it comes to fighting Covid-19

Paper presentation by Varda Sardana, Assistant Prof. SRCC, at AICTE sponsored International Conference on Circular Economy, Management and Industry 4.0 leading towards Sustainability organized by Apeejay School of Management, Delhi and Bharati Vidyapeeth (BVIMSR), Mumbai on 2021, October 21-22. The topic of the presentation: Corporate Social Responsibility and Financial Performance: An Empirical Analysis from India.

Paper presentation by Kamaldeep Kaur Sarna, Assistant Prof. SRCC at the International Conference Insurance 2030 - The Impact of Artificial Intelligence on the Future of Insurance, organized by the Insurance Institute of India, Mumbai with Sri Ramakrishna College of Arts and Science, Coimbatore on 2021, October 29. The topic of the presentation: Artificial Intelligence and Policy Challenges Circumventing the Insurance Sector.

Paper Presentation by Varda Sardana, Assistant Prof. SRCC, at Rajagiri Conference on Economics and Finance 2021 organised by Rajagiri Business School in association with The Indian Econometric Society and Waikato Management School, New Zealand on 2021, November 19-20. The topic of the presentation: Research in Deposit Insurance: A Bibliometric mapping of 50 years.



Paper presentation by Saurabh Gupta, Assistant Prof. SRCC, at 2nd International Conclave on Globalizing Indian Thought organized by IIM Kozhikode, Kerala on 2021, December 16-17. The topic of the presentation: Demarketing strategies by the Government of India: Comparison of varied strategies and messages.

Paper presentation by Varda Sardana, Assistant Prof. SRCC, at the 2nd National Conference on Innovations and Best Practices in Education organized by BR Ambedkar National Institute of Technology Jalandhar on 2021, December 17-18. The topic of the presentation: Motivational factors Influencing Teaching as a Career Choice: A FIT Choice Study of Pre-Service and In-Service Teachers in India.

Paper presentation by Ms. Kamaldeep Kaur Sarna, Assistant Prof. SRCC, at the ISDSI-Global Conference 2021: Leading business in a FLUID world held at Indian Institute of Management, Nagpur from, 2021, December 27-30. The topic of the presentation: Reducing Food Loss and Waste through Sustainable Supply Chain Management: A Systematic Review of Literature.

Paper presentation by Mr. Saurabh Gupta, Assistant Prof. SRCC, at 8th International Communication Management Conference 2022 organized by MICA and University of Southampton 2022, January 05-07. The topic of the presentation: Demarketing Campaigns by the Government of India (With special reference to anti-smoking, alcohol abuse, and reduction of private car usage).

National/International MoUs Signed

International MOU with EADA Business School, Spain under the SRCC-OIP-EADA Indo-Spain Meet in 2022.

Other Inter-Institutional Collaboration

SRCC-OIP-Indo- Dutch Collaborative Workshop on Bias in Advertising with Utrecht University of Applied Sciences, Netherlands for 1 day
SRCC OIP -EADA Business School Collaborative Session by EADA Business School, Spain for 1 Day
SRCC-OIP UN day celebration with representatives from Dept. of Peace Operations, United Nations Global Service Centre, Italy for 8 Days
SRCC OIP -Harvard University LMFSAI Webinar with Harvard Club of India, Lakshmi Mittal and Family South Asia Institute (LMFSAI), Harvard University, USA for 1 Day
Global Workshop on Cooperatives in Educational

Institutions by ICA-AP for cooperatives in Educational Institutions (ICEI) and Korea Federation of University Cooperatives (KFUC), Korea for 1 Day
Warwick Economics Summit by University of Warwick, UK for 3 Days
Session by Embassy of France for 1 Day
MEA India@75: Videsh Niti Distinguished Lecture Series by Ministry of External Affairs, Government of India, for one day.

The Placement Details

415

60.8%

The Number of Companies Visited for Campus Recruitment

86

Extension and Outreach Activities

Project Aarogya: A project by Connecting Dream Foundation, SRCC, to address the issue of improper menstrual hygiene and unavailability of sanitary napkins, among the underprivileged women community.

Project Dream library: A project by Connecting Dream Foundation, SRCC, to uplift underprivileged children by providing them with books to make sure that their fundamental right to education is fulfilled.

Project Amal: An initiative by ENACTUS, SRCC to convert agricultural waste into value and redefine rural economies.

Project Asbah: An initiative by ENACTUS, SRCC in the water sector to provide clean and affordable drinking water to urban slums and rural households.

Project Asha-Umeed: Undertaken by Vittshala, SRCC in collaboration with, Prerna Social and Development Welfare Institute, Grhini Voluntary Organisation, Niveda Foundation, Teach For India, and six other NGOs.

Project Sahay: Undertaken by Vittshala, SRCC in collaboration with MODY SCHOOL, Bhavans Varuna Vidyalaya, Nepal Orphans Home, Mount Litera Zee School, Tagore International School, and 18 other organizations.

Project Neev: Undertaken by Vittshala, SRCC in collaboration with Loyola College Chennai, NSS

Miranda House, Keshav Mahavidyalaya, 180DC Hindu College, Deepalaya NGO, IITs, NITs, & 20 other organizations.

Project Khushhali (Phase-IV): Undertaken by Vittshala, SRCC in collaboration with Munger District Administration (Gram Panchayat), Bihar.

Library Development

Expenditure on books: Rs. 23,21,225/-
Expenditure on journals and periodicals: Rs. 10,27,029/-
Expenditure on databases (Prowess, Economic Outlook): Rs. 5,53,000/-

Faculty Strength

130

Financial Allocation and Utilization

Rs. 3595.30 Lakh

Rs. 3551.04 Lakh

SHYAM LAL COLLEGE DAY



Brief History

Shyam Lal College is a premier educational institution offering a vibrant inclusive environment for the development of excellence in academics, culture, sports, and other student-empowered activities. Founded in 1964 by the great visionary and entrepreneur Padmashree (late) Shri Shyam Lal Gupta, Shyam Lal College (SLC) is a co-educational constituent college of the University of Delhi. SLC is among the best institutions in the entire University of Delhi, and over the past several years, has been making steady progress towards achieving academic excellence. SLC is a dynamic centre of academic excellence and aspires to make quality education accessible to students, especially girls, from economically and educationally disadvantaged communities of East Delhi. The college campus has sprawling sports grounds and is full of lush green lawns and blooming gardens that create a natural

ambience of a holistic teaching-learning process. Over a period of 56 years, SLC has evolved into a leading higher education institute of learning, innovation, and knowledge creation with consistent good NIRF ranking for Colleges of India – 77th (2022), 69th (2020), 41st (2019) and 61st (2018). The College has also been selected for DBT STAR College Programme under the Ministry of Science and Technology in 2020. The College has rapidly emerged as a prominent educational institution in the country and the Hon'ble Vice-President of India Shri Venkaiah Naidu graced the Annual Day and Prize Distribution function, 2018-19.

Major Activities and Achievements

SLC has achieved a remarkable milestone with the Ministry of Education recognizing the college as SAP



(Swachhta Action Plan) institution in 2021.

SLC is recognized in the band "Performer" under the category "General (Non-Technical)" in the Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2021 in the flagship programme of MoE, GoI.

SLC has been ranked in Band 201-300 among the World's Universities with Real Impact Ranking (WURI).

SLC established Institute's Innovation Council and was awarded Three Stars by Innovation Cell, MoE, GoI.

The College has also established a Saraswati IKS Centre which will focus on Bharatiya Knowledge System-based approaches for enhancing knowledge paradigms deeply rooted in Indian pride and cultural heritage. It is a matter of pride that the Saraswati IKS centre has collaborated with the IKS centre of MoE.

The College organized a Covid-19 vaccination camp on 12-13 April 2021 and a regular vaccination camp from 16 December 2021 to 31 March 2022 in collaboration with Shahdara District Administration. The College has also started various add-on courses, a Fundamental course in Artificial Intelligence and Machine learning, a Fundamental course in Office Automation, and a Fundamental course in Digital and Social Media Marketing in collaboration with NIELIT, Ministry of Electronics & Information Technology (MoE&IT), Government of India. The college has successfully completed five batches of the add-on course on "Stock Market and Expert Trade" and one certificate Course in "How to be an Expert Trader" in collaboration with Bombay Stock Exchange Ltd. The College also offers Foreign Language Certificate and Diploma courses in German/Spanish/French/Chinese/Japanese/Korean Courses under the aegis of the Department of Germanic & Romance Studies and Department of East Asian Studies, University of Delhi. The college also offered value-added courses/certificate courses on Yoga and Holistic Development, Research Analytics, Introduction to Artificial Intelligence, Bitcoin and Blockchain Technology and Virtual Interaction and Marketing, Computer Applications, Python for Beginners, Graphic Designing and Webpage Development, Building a Positive Attitude for Success, Basics of Latex and many more. It is a matter of great pride that over 100 renowned

academicians and industry professionals joined us as resource persons for many international and national events organized by the college. SLC organized the flagship event of Umang 4.0 East Delhi Flower Show, Pushpmahotsav on 28 February 2022 on its campus to encourage the spirit of Ek Bharat Shreshtha Bharat & Swachha Bharat Abhiyan. SLC is a participating institute in the Unnat Bharat Abhiyan (UBA 2.0) which is the flagship programme of MoE, GoI. Under this project, the College has adopted 5 villages to support rural development through institutional linkages. The College organized Yamuna Festival 2.0, an art and culture tribute to the Yamuna River and our environment, on 5-6 April 2022 at the college campus as well as Yamuna Ghat. IQAC, Shyam Lal College in collaboration with NAAC organized a National Workshop "NEP & accreditation of HEI's: The Way Ahead" on 31 March 2022. IQAC organized a Non-Teaching Training Program on various issues regarding "Recruitment and Promotion Procedures" on 21 Oct. 2021. Two Days Programme on Basic Computer Training for the non-teaching staff was organised on 7-8 August 2021.

The fourth edition of the National Youth Festival "Sanskar-Sanskriti-Samridhi" was organised on 12 January 2022 to celebrate the 159th Birth Anniversary of Swami Vivekananda. In collaboration with Vivekanand Kendra a 30 Hours Online Student Development Programme on The Indian Knowledge System was organized from 28 September-13 October 2021. An Eight-day Certificate Course for UG Students on Vedic Mathematics (CCVM) was organised in collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi from 15-22 December 2021 of 36 hours. Under the DBT Star College Scheme, a 30-hour Inter College 'Short Term Certificate Course' on 'Preparation & Application of Magnetic Nanoparticles and Hands-on Software Training' was organised on 20-24 September 2021. Under the scheme, an International Webinar was also organized on 'Sustainable Circular Economy-A Solution to Global Issues' on 23 July 2021.

In collaboration with Mahatma Hansraj Faculty Development Centre a "One Week Online Training Workshop on Developing Administrative Skills and Leadership" was organized from 25 September to 01 October 2021. Commblaze in collaboration with the College



organized a 30-hour Students Development Programme on Contemporary Issues in Business and Management from 01-17 September 2021. IQAC organized a “Training Program for Vidya Vistar Team of SLC and Kalahandi University” on 11 October 2021.

A Student Development Programme (30hrs) on Virtual Interaction and Marketing under the rolling project VISTAR was organised from 22-29 July 2021.

Honours/Distinctions

Prof. Rabi Narayan Kar was conferred with a Faculty Fellow of Georgia Tech Center for International Business Education & Research, GT, USA, 2021-22.

Prof. Rabi Narayan Kar is a Member of the PG Board of Studies at Pondicherry University, 2021-22

Prof. Rabi Narayan Kar is a Member of the Board of Studies, Department of Commerce and Financial Studies at Jharkhand Central University, 2021-22

Prof. Rabi Narayan Kar is a Member of the Research Expert Committee, NIEPA, Delhi 2021-22

Prof. Rabi Narayan Kar is a Visitor’s Nominee to Central University of Odisha, 2021-22

Prof. Rabi Narayan Kar is a UGC nominee to the Executive Council of Central University of Rajasthan 2021-22.

Prof. Rabi Narayan Kar is an editorial board member of Chartered Secretary, ICSI, South Asian Secretary, SAGE.

Prof. Rabi Narayan Kar is an editorial board member of the International Journal of Psychology & Management & Organizational Behaviour (RIPCO), France

Prof. Kusha Tiwari is a Visitor’s Nominee to Babasaheb Bhimrao Ambedkar (Central) University, Lucknow, 2022.

Ms. Jyoti Sindhu got the Best Paper award for a Research Paper titled “Social Media Marketing in Digital Era: Relevance & Importance with Customer-Based Brand Equity” at an international Conference on Business Management and Analytics “Life after Pandemic – From New Normal to New Future”, organized by Department of Management Studies NIT, Tiruchirappalli, Tamil Nadu, 2021.

Dr. Shaista Sami is a member of the Editorial Board of the Journal of Advances in Management sciences & Information Systems.

Students with Distinctions

S.No.	Name of Students	Class
1	Ankur Gautam	B.A. (PROG) III YR
2	Anjali Kumari	B.COM II YR
3	Shivangi	B.COM (HONS.) II YR
4	Varun Dhull	B.SC (PHY. SC.) III YR
5	Disha Malik	B.A. (H) ENGLISH II YR

Publications

Kar, R.N. (2021). M&A Movements: An Analysis of Patterns of Indian Trends. *Global Business Review*, SAGE, 0/0(2021), Online.

Tiwari, K. (2022). Beyond Apartheid: A Study of Nadine Gordimer's Post-Apartheid Fiction. *The IUP Journal of English Studies*, 17(1), 120-133.

Ramakrishnan, R. (2021). Relationship between Brand Experience and Brand Loyalty, Mediators – Satisfaction and Brand Trust: A Conceptual Framework. *Business Analyst*, 42(2), ISSN- 0973-211X.

Arora, S. (2021). The Predictors of Power Within for Creating Collective Pride and Harmony at Workplace. *IJSOL*, 9(2), 2320-222X.

Pooniya, S. (2022). Business strategies During Covid-19 Pandemic Economy- An Analysis. *International Journal of Mechanical Engineering*, 6(3), ISSN -0974-5823.

Aggarwal, N. (2021). Performance Enhancement by Novel Hybrid PV Array Without and With Bypass Diode Under Partial Shaded Conditions: An Experimental Study. *International Journal of Renewable Energy Research*, 11(4), 1881-1891.

Sharma P.K. (2021). Effect of bismuth doping and SiC nanodispersion on the thermoelectric properties of solution-processed PbTe. *Journal of Alloys and Compounds (Elsevier)*, -(915), 165390.

Kumar D. (2021). Bharat mein Nyaypalika ki Swatantrata Evam Uttardayitwa. *Bihar Journal of Public Administration*, XVIII (2), 0974-2735.

Kumbhar, S. (2021). Odisha’s Transformation under the Naveen Patnaik Regime: Beleaguered Victim to Robust Warrior. *Economic and Political Weekly*, 56(8), 21-25.

Prasad, S. S. (2022). Freedom of Speech and Expression: Permissible Restrictions. *Voice of Civil Society*, 1(11), 04-08.



Research Projects

ICSSR, 2019-21, Sea-born Disaster Risk Reduction, Governance and Management in Odisha: A Comparative Study of Policy and Innovation, Rs. 4 Lakh

MoE, 2018 onwards, Unnat Bharat Abhiyaan, Rs. 50000/-

SLC, 2020 onwards, Anutosh, Variable

Seminars Organized

A seminar titled, 'NEP & accreditation of HEI's: The Way Ahead', was held on 31 March 2022, with the speaker, Dr. Leena Gahane, Deputy Advisor, NAAC.

A seminar titled, 'Ukrainian War: Implication for India and World, Ukrainian War: Implication for India and World' was held on 22 April 2022, with the speaker, Sh. P.K. Saigal, Major General.

A seminar titled, 'Material Synthesis, Characterization and Applications' was held on 27 Dec. 2021, with the speaker, Dr. Rohit Medwal, Nanyang Technological University, Singapore.

A seminar titled, 'Bridging the gap between academics and industries' was held on 01 Feb. 2022, with the speaker, Dr. Kanchan Rani, Joint Director and training head at NIELET.

A seminar titled, 'Sustainable Circular Economy-A Solution to Global Issues' was held on 23 July 2021, with the speaker, Dr. Ashish Pandey, Principal Chemist at CalAgua Innovations Corporation at the University of Calgary in Canada.

Conferences Organized

One Week Online Training Workshop on Developing Administrative Skills and Leadership, 25 Sept. 2021, SLC & Others

India at UN: Opportunities and Challenges for the Emerging Power, 24 Oct. 2021, SLC & Others

The Status of the Girl Child in India, 07 Dec. 2021, SLC & Others

A Glimpse of Activities of ISRO, 11 March 2022, SLC & Others

Getting Close to Swami Vivekananda, 12 Jan. 2022, SLC & Others

Seminar/Conference Presentations

Prof. Rabi Narayan Kar was invited as a Keynote Speaker at Global International Conference GCI on Global Trends & Research in Management, Kathmandu, Nepal on 2021, December 11.

Prof. Kusha Tiwari was invited as a Resource Person in the National Webinar on "Postcolonialism and

Gender Studies in India" organized by Ethiraj College for Women, Chennai on 2022, March 10.

Dr. Shivali Kharbanda was invited as a guest speaker at an online seminar organized by Birmingham City University, UK on the topic, 'Punjabis in Delhi: Culture, Ethnicity, Representations'.

Dr. Shaista Sami presented a research paper titled "Developing Trade and Relations of India and Africa" at the International Conference on Multidisciplinary Research and Innovative Practices held on 2021, November 26-27, organized by J.S. University, Shikohabad, Firozabad (U.P.)

Varun Panwar presented a research paper "Forensic Accounting: A Contemporary Paradigm in Corporate Governance" at International Conference on Contemporary Issues in Sustainable Management Practices & Technology Innovation' organised by Sri Guru Hari Singh College, CDLU, Sirsa on 2021, July 24.

Dr. Kinshuk Majumdar presented a research paper entitled "Representation of Dual Slavery in Amitav Ghosh's The Glass Palace" in a three-day Online Conference on (His)stories Slavery: Research Perspectives on Narratives of Enslavement and Freedom," organized by Department of English, Surendranath College, from 2021, November 07-09.

Dr. Subodh Kumar presented a research paper entitled "Codes Capable to Detect and Correct Repeated Restricted Burst Errors Occurring in Sub-blocks" at the 8th international conference on Mathematics and computing (ICMC 2022), Department of Mathematics, VIT, Vellore, India., on 2022, January 06-08.

Mamta presented a research paper "Ontology of Indian Online Matrimonial Information system and social services" at the 2022 IEEE World Conference on Applied Intelligence and Computing (AIC 2022) held on 2022, June 17-19.

Sushil presented a research paper "Bug Report Classification by Selecting Relevant Features Using Chi-Square, Information Gain and Latent Semantic Analysis" at the 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO) (pp. 1-5). IEEE



Niti Aggarwal presented a research paper at the International Conference on Energy Materials and Devices (ICEMD-2022), organised by the Department of Physics (MMV), Banaras Hindu University, Varanasi, held in January 2022.

National/International MoUs Signed

Kalahandi University for sharing knowledge and facilities under Vidya Vistar Scheme.

With NIELIT Delhi, an autonomous Scientific Society of the Ministry of Electronics and Information Technology (MeitY), Gol for organizing short-term training programmes, seminars, and workshops.

With International Atomic Energy Agency (IAEA), Vienna, Austria for an applied project on “Atomic Data for Vapour Shielding in Fusion Devices (F43024)”. Collaborative research to review data needs and coordinate research plans for the modelling of vapour shielding in controlled fusion devices, with a focus on liquid metal surfaces.

With Shiksha Sanskriti Utthan Nyas for conducting various add-on certificate courses for students.

BSE Institute Limited to organize the certificate course on Financial Skill Development for the students.

With Superpro.ai Vayam platform a flagship product of Double Slit Media Technologies Private Limited for hosting all in-house web conferences, including webinars, seminars, online workshops, webcasts, and other such events and programmes.

With Wadhvani Operating Foundation to introduce and/or strengthen entrepreneurship education on campus through the deployment of a systematic approach to optimizing and increasing the impact of teachers and training programmes on entrepreneurship education and provide students with the opportunity to become entrepreneurially skilled and inspired to be entrepreneurs.

NGO Amar Jyoti for hosting events related to the Development of Life Skills for the students.

Jaagruti waste paper recycling services to recycle all the waste papers of the college.

Department of Biotechnology to enhance the Research and labs in the college

Other Inter-Institutional Collaboration

Under the aegis of Vidya Vistar Project and DBT Star College Scheme in collaboration with Kalahandi University, Odisha organized an outreach programme on 'Virtual Workshop on Laboratory Set-Up' on 07 December 2021.

In collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi an eight days Certificate Course for UG

Students on Vedic Mathematics (CCVM) was organized from 15-22 December 2021. A Workshop on Business Model Canvas (BMC) under the Mentor-Mentee scheme was organized in collaboration with Roorkee Institute of Technology. With the same institute, a Pitching event for PoCs was developed.

IA workshop on 'Entrepreneurship Skill, Attitude and Behaviour Development' was organized on 28 February 2022 in collaboration with Superpro.ai. A visit to Mother Dairy Plant situated in East Delhi, and the NSIC Incubation Centre, Okhla, and was organised on 21 October 2021 and 26 April 2022 respectively.

An educational visit to the Securities and Exchange Board of India (SEBI) was organised on 27 April 2022. A three-day workshop on “Preparation of Competitive Exams” was organised from 17-19 January 2022 in collaboration with IQAC and TIMES Group.

A webinar on National Career Awareness Programme was organised on 26 October 2021 in collaboration with the Institute of Companies Secretary (ICSI).

In collaboration with the National Institute of Electronic and Information Technology a national webinar on “Bridging the gap between academics and industries” was organised on 1 Feb. 2022.

In collaboration with Vivekanand Kendra a 30 Hours Online Student Development Programme on the Indian Knowledge System, was organised. In collaboration with Sewa: EK Anokha Parivar a blood donation camp was organised on the college campus on 2 October 2021. In collaboration with Sparsh Ganga, a Cleanliness Drive was organized at Ghat No. 21 on 2 October 2021.

In collaboration with YUVA (Youth United for Vision and Action) organized an International Webinar “Getting Close to Swami Vivekananda” on 12 January 2022.

An educational visit to the National Science Centre, Delhi, was organised in collaboration with Care Needy Foundation on 20 May 2022. A webinar on “Towards Elimination of Child Labour: Exploitation and its Impact on Children” and a Yoga Camp for underprivileged and marginalized children of Ghaziabad were organised in collaboration with CareNeedy Foundation.

In collaboration with WELLO a workshop “Say Bye to Stress” to learn about mental well-being and dealing with anxiety, was organized on 23 February 2022. IQAC in collaboration with Mahatma Hansraj Faculty



Development Centre organized a “One Week Online Training Workshop on Developing Administrative Skills and Leadership” from 25 September-01 October 2021.

IQAC in collaboration with NAAC organized a National Workshop “NEP & accreditation of HEI’s: The Way Ahead” on 31 March 2022. IQAC, SLC in collaboration with Vidya Bharati Uchcha Shiksha Sansthan organized the various Training Programme on “Roadmap to NEP Implementation” held on 14, 16 and 17 December 2021.

The Number of Students Placed

667

Number of Companies Visited for Campus Recruitment

20

Extension and Outreach Activities

The College’s policy of giving preference to the girl students in admissions is largely aimed at correcting the gender bias/disparity in the community.

SLC has also adopted Shahdara mandi and has conducted cleanliness drives; switching over to cashless trading and plastic-free campaigns.

SLC has adopted 5 villages under the UBA project under MoE, Gol. The team has conducted extensive surveys of the said villages, participated in the Swachata hi Sewa campaign, and interacted with villagers and other stakeholders of the villages. The team has also worked with and helped the adopted villages during the Covid-19 pandemic in the following ways: poster and video distribution about maintaining hygiene and sanitation, distribution of

food packets, distribution of rations and masks, dissemination of information through Whatsapp groups to farmers regarding precautions to be taken in farming activities during the pandemic etc.

The College has tie-ups with several NGOs to work for the community. NSS volunteers of the College visit slum areas and spread awareness about cleanliness, and tree plantation in collaboration with NGOs. NCC girls of SLC have participated in and organized Self Defense Camp, Yoga Camp, Tree Plantation drive and the Save Yamuna Campaign. Cleanliness drives in Yamuna Bazaar Ghat no 21 were conducted. The development and maintenance of Ghat No.-21 have been done along with repairing, beautification, restructuring, painting and colouring work. Community outreach project “SWARNKRITI” was initiated the beneficiaries were helped with setting up the stall and selling their crafts.

Library Development

Our college library has a rich collection of over 55,000 books covering the gamut of different disciplines. E-resources facility is also available through which students and faculty members access the world’s best Databases, e-Journals, e-Books etc. The library is automated. This year 369 books were added to our collection in various subjects. The library is being completely renovated with all modern amenities.

Faculty Strength

147

Financial Allocation and Utilization

Rs: 39,17,89,736/-

Rs. 35,03,76,231/-

SHYAM LAL COLLEGE (EVENING)

Major Activities and Achievements

The College published ‘Aspirare’, an International Journal of Commerce and Management (Vol.No.7, Sept.2020) (ISSN: 2394-0484 (Print), 2394-6601 (Online)), which has impact factor of 6.629. Besides, IQAC of the College, in collaboration with DSPSR, organized (online) XXIII Annual International Conference on “Entrepreneurship, Employability & Sustainable Development” on 8-9, January 2022.

Students with Distinctions

B. Com III Year:
 Ritika Biyani (1665) – 8.10/10, Varsha Soni (1764) – 8.01/10, Vivek Kumar Dwivedi (1778) – 7.93/10, Ayush (1820) – 7.98/10, Akansha Malhotra (1832) – 8.42/10, Shiv Shankar (1838) – 8.12/10, Lohitaksh Bhardwaj (1843) – 7.98/10, Neeraj Chand (1849) – 8.09/10, Shivam Mishra, (1863) – 7.98/10, Sutikshan (1864) – 8.00/10, Kritika Chahal (1866) – 8.27/10, Sanskar Varshney (1874) – 8.21/10, Nafisa Kabir



(1878) – 8.15/10, Sunil Kumar (1879) – 8.10/10, Kusum Ramola (1884) – 8.06/10, Ashish Kumar Gupta, (1919) – 7.92/10, Gauri Dubey (1927) – 8.01/10, Varsha (1938) – 7.90/10, Divesh Kapoor (1960) – 8.03/10

B. Com (H) III Year:

Pranjalie Mishra, (3618) – 8.36/10, Akash Singh (3639) – 8.17/10, Abhinav Prajapati (3652) – 8.24/10, Ritika Rani Yadav (3659) – 8.39/10, Rahul Aggarwal (3673) – 8.66/10, Megha Chawla (3674) – 8.62/10, Garima Sharma (3680) – 8.25/10, Khushi Bhansali (3681) – 8.16/10, Nujrat Khatun (3682) – 8.74/10, Sonakshi Garg (3685) – 8.18/10, Jagrit Aggarwal (3686) – 8.44/10, Sonal Kamra (3687) – 8.04/10, Tarun (3697) – 8.16/10, Kunal Gupta, (3709) – 7.94/10, Chhavi Banga (3711) – 8.10/10, Upadhi Kakkar (3715) – 8.00/10, Lakshay Goel (3724) – 8.12/10

B.A. Prog. III Year:

Saman Jain (2370) – 8.40/10, Nishant Kumar (2422) – 8.07/10, Prachi Sharma (2423) – 8.07/10, Deepika Soni (2568) – 8.03/10, Mehak Jain (2310) – 8.50/10

B.A. Economics (H) III Year:

Kajal Singh (305) – 8.29/10, Suryanshu Shukla (319) – 8.29/10, Riya Mittal (340) – 8.10/10, Chandni Dhawan (343) – 8.23/10, Raghuvansh Kumar (349) – 8.78/10, Sandeep Kumar Singh (358) – 7.97/10, Abhilash Anand (359) – 8.00/10, Chavi Aggarwal (368) – 8.00/10

B.A. Hindi (H) III Year:

Anjali (706) – 8.05/10, Simmi Mirza (708) – 8.04/10

B.A. Political Science (H) III Year:

Anjali Dwivedi (6309) – 7.95/10, Pidathala Sagar (6314) – 7.94/10, Dev Dudeja (6336) – 7.93/10

Publications

Agarwal, N., & Tripathi, A. P. (2021). A Bibliometric analysis of halal food and certification: Existing research & future directions. *Delhi Business Review*, 22(2), 9-20.

Gupta, Renu (2021), "Sanchar madhymo ki bhasha", *Drishtikon* (2021) Mar-Apr, Page 524, ISSN No. 0975-119x (Single)

Haokip, Nehkholen (2022), "The role of stock market in economic growth: Empirical Evidence from India", *VEETIKA Journal* (2022) Vol.8, Page 26, ISSN No. 2454-342x

Karmwar, M. (2021), "Ghalib and His Literature: A Source of Dilli's History" *International Journal of Culture & Global Studies* 2(1), 270-75. ISSN: 2582-6808.

Sharma A., Tripathi, Aditya P et. al. (2021), *Vault Vote: A Ray of Hope for Transforming the Voting System of India*. *TOJQI*, 12(6), 393-406. (Scopus Indexed).

Tripathi, A. P., & Agrawal, N. (2021). Impact of an economic revitalization programme on export and employment generation: a case study of One District One Product Programme in Uttar Pradesh, India. *Public Administration and Policy*. (Emerald Publishing, Scopus Indexed)

Tripathi, A. P., & Agrawal, N. (2022). COVID-19, Reverse Migration and Crisis Management: A Study of the Model of Government of Uttar Pradesh (India). *Indian Journal of Public Administration*, 68(1), 84-99. (UGC Care Listed, Sage)

Journals (Published by the College)

'Aspirare', an International Journal of Commerce and Management (ISSN: 2394-0484 (Print), 2394-6601 (Online))

Faculties serving as Editor(s)/Member(s) of Editorial Board; Editor-in-chief – Dr. Ramesh Kumar Managing Editor – Dr. Aditya P. Tripathi & Associate Managing Editors – Dr. S.P. Sharma Dr. Pramod Kumar Ms. Ila Bhushan, Dr. Ashwani Jassal, Dr. Kumar Prashant, Dr. Preeti Shukla and Dr. Pramod Kumar Dwivedi

Chapter in Edited Books

Dr. Pramod Kumar Dwivedi, Associate Prof., Department of Hindi published a Chapter titled "Ekkisavisadi ki Hindi Kahani aur Bazarvaad" in the edited book *Ekkisavisadi mein Hindi Kahani*, Single Author, Publisher- Vaaksudha Prakashan, New Delhi, 2021, ISBN: 978-81-952826-8-5

Dr. Pramod Kumar Dwivedi, Associate Prof., Department of Hindi published a Chapter titled "Hashiye ko chorti stri aur Ekkisavisadi ki stri-kavita" in the edited book *Ekkisavisadi ka Sahitya Aur Hasiye ka Samaj*, Single Author, Publisher- Vaaksudha Prakashan, New Delhi, 2021, ISBN: 978-93-80441-76-4

Dr. Renu Gupta, Associate Prof., Department of Hindi published a Chapter titled "Ekkisavisadi ki Hindi Kahaniyon mein Chitrit Stri" in the edited book *Ekkisavisadi Mein Hindi Kahani*, Single Author, Publisher- Vaaksudha Prakashan, New Delhi, 2021, ISBN: 978-81-952826-8-5

Dr. Sunita Khurana, Associate Prof., Department of Hindi published a Chapter titled "Ekkisavisadi ki Kahaniyon mein Abhivyakt Rajnitik Yatharth" in the edited book *Ekkisavisadi Mein Hindi Kahani*, Single



Author, Publisher- Vaaksudha Prakashan, New Delhi, 2021, ISBN: 978-81-952826-8-5

Dr. Sunita Khurana, Associate Prof., Department of Hindi published a Chapter titled “Anamika ke Upanyas Das Dware Ka Pinjaramein Hasiye par pari Stri aur Uski Sangharsh Chetna” in the edited book Ekkisavisadi ka Sahitya Aur Hasiye ka Samaj, Single Author, Publisher- Vaaksudha Prakashan, New Delhi, 2021, ISBN: 978-93-80441-76-4

Dr. Sunita Saxena, Associate Prof., Department of Hindi published a Chapter titled “EkkisaviSadi ki Hindi Kahani Mein Dalit Vimarsh” in the edited book EkkisaviSadi mein Hindi Kahani, Single Author, Publisher- Vaaksudha Prakashan, New Delhi, 2021, ISBN: 978-81-952826-8-5

Dr. Sunita Saxena, Associate Prof., Department of Hindi published a Chapter titled “Suraj Pal Chauhan ke Triskrit mein Abhivyakt Dalit Jeevan” in the edited book EkkisaviSadi ka Sahitya aur Hasiye ka Samaj, Single Author, Publisher- Vaaksudha Prakashan, New Delhi, 2021, ISBN: 978-93-80441-76-4

Conferences Organized

IQAC of the College, in collaboration with DSPSR, organized (online) XXIII Annual International Conference on “Entrepreneurship, Employability & Sustainable Development” on 8-9 January 2022.

Seminars / Conferences Presentation

Dr. Nehkholen Haokip, Associate Prof., Department of Economics was invited as a Resource Person on the Career Counselling Session on "Career Paths after Graduation" organized by North East Cell & IQAC, Lady Shri Ram College for Women, University on, 2022, September 12.

Dr. Nehkholen Haokip, Associate Prof., Department of Economics, presented a Seminar Paper on "Education Profile of Manipur with Special Reference to the Scheduled Tribes" In "Three Days National Seminar on Educational Scenario in Manipur with Special Reference to Education in the Hill Areas" organized by Tribal Research Institute, Department of Tribal Affairs and Hills, Government of Manipur and Centre for Study of Exclusion and Inclusive Policy, Manipur University from 2022, January 13-15.

Dr. Renu Gupta, Associate Prof., Department of Hindi presented a paper on “Sanskrit Sahitya mein Ram” in a two-days National Seminar organized by Ramanujan College, University of Delhi on 2022, March 28-29.

Dr. Rajiv Ranjan Singh Associate Prof., Department of Computer Science delivered an online invited Lectures on “Cyber Safety & Safeguarding: Awareness is the key” during the Cyber Safety Week at The Shri Ram School, Mouslari Campus on 02 July 2021. He also delivered an online Lecture on “Adversarial Attacks on Machine Learning Algorithms” as a Resource person in FDP organised by IGNTU, Amarkantak on 27 Jan 2022. Another one on “Use of formal verification in security analysis with hands-on training” saw Dr. Singh as a Resource person in FDP organised by Sharda University on 24 Feb 2022. He was a resource person for “Cybersecurity in Food and Agriculture industry”, an FDP organised by NIFTEM on 29 March 2022 and also in “Cybersecurity issues in Supply Chain Management”, an FDP organised by NIFTEM on 2022, March 30.

Dr. Manish Karmwar, Assistant Prof., Department of History has presented research paper on Shifting Trends in Historiography: Past, Present & Future Organized by Dev Samaj College for Women (DSCW), Ferozepur, on 2021, November 27.

Dr. Manish Karmwar, Assistant Prof., Department of History has presented research paper on Africa, Climate Change, Migration And Refugees Jointly organized by SSE, New Delhi, DYAL SINGH COLLEGE, New Delhi and Gandhi Smirti and Darshan Smirti, ND on 2022, January 29-30.

Dr. Karan Gupta, Assistant Prof., Department of Computer Science, was a coordinator for the following Webinars organised by Department of Computer Science, Shyam Lal College (Evening) in collaboration with IQAC, Shyam Lal College (Evening): “Drones: Security and related issues” in December 2021. Webinar “Give your career wings with Python” in January 2022. Another titled, “IoT: Overview and Emerging Trends” in February 2022. And “Introduction and Basics of IT laws in India” in March 2022.

He also participated in the Webinar on “Cyber Security in Food and Beverage Industries” organized by National institute of Food Technology Entrepreneurship and Management (NIFTEM) in June 2021. In the Workshop on “Designing and Development of e-resources for Teaching & Learning Part II” organized by Department of Computer Science & Department of Chemistry, Rajdhani

College, University of Delhi in July 2021. Also participated in the webinar on “Managing References made Easy Using Mendeley” organized by Miranda House, University of Delhi in association Elsevier in July 2021. Webinars on “Use Scopus to make fair journal choices” organized by Elsevier in January 2022.

Placement Details

163
27%

Library Development

Our Library has a rich collection of over 52,814 books covering an array of different disciplines. It subscribes 16 Hindi & English Newspapers, 18 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: 41
Adhoc: 24

Financial allocation and Utilization

Grant sanctioned in Rs. 28,17,16,000/-
Utilized in Rs.18,52,77,107/-

Other Significant Information:

A Major Research Project titled " Investigator: A Machine Learning Framework for Financial Fraud Forecasting" was Awarded as Co-Investigator to Dr. Aditya P. Tripathi, Associate Prof., Department of Commerce by Indian Council of Social Science Research (ICSSR), Ministry of Education, Government of India) on 25 March 2022.

Dr. Karan Gupta, Assistant Prof., Department of Computer Science was a member of committee (Department of Computer Science, University of Delhi) that formulated the guidelines for the following papers to be taught across the different colleges of the University of Delhi: “Programming in Java (BACS05A)” of B. A. Program 3rd Year 5th Semester in July 2021, and “Data Visualization using R (BACS10C)” of B. A. Program 3rd Year 6th Semester in February 2022.

SHYAMA PRASAD MUKHERJI COLLEGE FOR WOMEN



Brief History

The glorious journey of 50 years of Shyama Prasad Mukherji College (SPMC) started with a humble beginning in the year 1969, in a small government

building at Tagore Garden with only six programs, 500 students, and a handful of teaching and administrative staff. The College is named after the



illustrious statesman and academician, Dr. Shyama Prasad Mukherji. The College was shifted to its present location, Punjabi Bagh West, Delhi in October 1985. At present, the College offers 19 programs including three professional courses and nine Certificate Courses. The College takes great pride in its big campus spread over 10 acres of land with two academic blocks, more than 100 rooms, 9 labs, 4 seminar rooms, an audio-visual room, and a state-of-the-art auditorium with a seating capacity of 1150 people. The College has also very good sports infrastructure. It has an indoor and outdoor gym; a basketball and volleyball court; and Kho-Kho, Kabaddi, and hockey grounds. The College has a large, well-stocked, fully digitalized library with a collection of 87,000 books, 22 journals, 11 newspapers, and air-conditioned reading halls. It also has Staff quarters, a branch of the Indian Overseas Bank, an ATM, a Bookshop, and a Photo Copy shop on its campus.

Major Activities and Achievements

SPMC excelled in its academic and co-curricular activities despite the covid 19 challenges. The College, under the supervision of IQAC and the Research committee, carried out various activities such as one Professional Development Programme for Non-Teaching Staff; six Workshops, two UGC-sponsored National Seminars and 60 International Webinars, two Kavi Sammelans, two graduate students paper presentations, and various inter-college competitions despite all the challenges. Our faculty members published more than 70 books and chapters, and research articles and also presented more than 100 papers at various seminars, workshops, and conferences. SPMC was awarded Green Champion Award and four teachers were awarded prestigious medals for their contributions in various fields. Four students secured positions in the University examinations. Eight teachers were awarded Doctor of Philosophy. SPMC organised three Add-on Courses titled, Counselling and Psychotherapy, Diet and Wellness, and Employability and Soft Skills in the academic year 2020-21. The institution is now offering eight Add-on Courses.

The College also received Rs. 20,000 from the Delhi Government for organizing various activities related to the environment. Department of Geography, SPMC received a grant of Rs. 1.50 lakh from NIDM which was utilized in the financial year 2021-2022.

Honours/Distinctions

SPMC received the District Green Champion Award for West Delhi for the academic year 2021-22 from the Ministry of Education, Govt. of India for implementation of the Swachhta Action Plan, waste management, and energy management.

Dr. Rishiraj Pathak received the Sahitya Akademi Yuva Puraskar for the book *Aadyonmeshah* (Sanskrit poetry) on 17 October 2021. He also received Sahitya Puraskar for his fiction *Shreemadoodhamasimhacharitam* from Uttar Pradesh Sanskrit Sansthan, Lucknow, Uttar Pradesh on 19 August 2021

Dr. Amna Mirza received 'Dr. Sarvepalli Radhakrishnan Best Faculty Award in International Relations by CPACE (Centre for Professional Advancement) on 5 September 2021. She also received 'the 5th Dr. Sarojini Naidu International Award for Women' given by the Asian Academy of Arts & Marwah Studios, held on 15 September during the 7th Global Literary Festival Noida 2021.

Dr. Reema Thareja received the Nobel Laureate Maria Goeppert-Mayer Inspiring Woman of the Year 2021 Award in the field of Computer Science from the International Multi-Disciplinary Research Foundation (IMRF). She also received Knowledge Mobilization Award at the 7th Annual Research Awards by Shri Paramhans Education & Research Foundation Trust on 4 July 2021.

Dr. Gati Krishna Nayak, Dr. Kanica Goel, Dr. Kulbir Kaur, Dr. Namita Tayal, Dr. Nidhi Seth, Dr. Pushpa Kumari, Dr. Sanjit Kumar Das and Dr. Vishakha Sharma completed their Ph.D.

Students with Distinctions

S.No.	Name of Students	Class
1	Ms. Rima	Geography (H), IIInd year
2	Ms. Sanya Sharma	Geography (H), IIInd year
3	Ms. Mahima Dabas	Geography (H), IIInd year
4	Ms. Muskan Gupta,	Geography (H), IIIrd year

Publications

Bhatia, S., and Babu, N. (2021). Parental Involvement in the Career Decision Making of Adolescent Girls. *Applied Research in Humanities, Language and Social Sciences*, 1(No. 1), 120.

Mirza, A., and Tripathy, S. (2021). Globalization 4.0 and Challenges for Global Governance. *International Journal of Academic Research & Development (IJAR&D)*, 7(No 2), 36-44.

- Arora, S. (2021). Towards Understanding the Challenges of Parenting a Transgender Child. *Indian Journal of School Health and Wellbeing*, 7(3), 1-4.
- Jyotsna. (2021). How India spends on the social sector? An analysis of trends and patterns: 1980-2018. *Journal of Economic and Social Development*, XVII(No.1), -.
- Sharma N., Yadav, V., and Sharma A. (2021). Attitude and empathy of youth towards physically disabled persons. *Heliyon*, 7(8).
- Kumar N. (2021). The “Jook” and Zora Neale Hurston’s play Polk County. *Lapis Lazuli: An International Literary Journal*, 11(2), 1-9.
- Thareja, R., and Mishra, M. (2021). Analyzing Education Trends in Pandemic Times. *JIMS 8i-International Journal of Information, Communication and Computing Technology (IJICCT)*, 9(1).
- Das S.K. (2021). Collective Memories: A Way to Understand the Process of Identity Formation of Migrants. *International Journal of Multidisciplinary Trends*, 3(2), 41-46.
- Rai, A., Suzen, H., and Pavi, M. (2021). Exploration of Perceived Stress Among Married and Unmarried Women Employees in Public and Private Sector. *International Journal of All Research, Education and Scientific methods*, Vol. 9(Issue 10), -.
- Wadhwa, T. (2021). Making Sense of a ‘Changed’ World: Covid-19 and Children’s Mental Health. *Monthly Book Review*, 45(11), -.

Journals

- Sharma S., Yadav, V.P., Gupta, C., Misra, I., and Mirza, A. (2021). *Journal of Applied Research in Humanities, Language and Social Sciences*. Bi-annual, I(I), 120.

Research Projects

- ICSSR, 2019-21, Status of Impact of Constitutional Status of J&K on Marginalized Communities since Independence, Rs. 18.06 Lakh
- ICHR, 2020-22, History, Science, Religion among Modern India Political thinker: A Thematic and Methodological Exploration, Rs. 3.5 Lakh
- Institute of Imminence, University of Delhi, 2021-22, Psycho-social and Economic Impact of Internet Users in India, Rs. 1.5 Lakh
- Institute of Imminence, University of Delhi, 2021-22, Svaatantryottara Sanskrit Kaavyon men Abhinav Prayog, Rs. 1.5 Lakh
- Institute of Imminence, University of Delhi, 2021-22, Springshed Delineation and Flow Network Assessment (SD-Flow NetAs) for Livelihood Security

of Local Community in Upper Beas Valley, Himachal Pradesh’, Rs. 1.5 Lakh

Seminars Organized

- A seminar titled ‘The Making of the Constitution of India, The Making of the Constitution of India’, on 17 Nov. 2021, with the speaker, Prof. Salil Mishra, Former Pro-VC, Ambedkar University.
- A seminar titled ‘Information Skills in Digital Information Landscape, Information Skills in Digital Information Landscape’, on 15 March 2022, with the speaker, Dr. Rajesh Singh University Librarian, University of Delhi,
- A seminar titled ‘Career Options in New-Age Industry, Career Options in New-Age Industry’, on 23 Oct. 2021, with the speaker, Vishal Sehgal, MD & CEO of Nischay Educorp.
- A seminar titled ‘Career Opportunities in Defense Services’, on 22 Sept. 2021, with the speaker, Dr. Aditi, Scientist from the Air Force Selection Board in Mysuru.
- A seminar titled ‘Unemployment Issues in India and Covid - 19, Unemployment Issues in India and Covid-19’, on 10 Sept. 2021, with the speaker, Neeraj Kumar Deputy Director in the Department of Economic Affairs, Ministry of Finance,

Conferences Organized

- A conference titled, ‘Applications of Mathematics in Social Sciences’, on 04 March 2022, funded by the University Grants Commission
- A conference titled, ‘Sanskrit Vaanmaya men Nadiyaan: Saanskritika evam bhaugolika pariprekshya’, 17 Dec. 2021, self-funded.

Seminar/Conference Presentations

- Dr. Amna Mirza presented a lecture as a resource person on ‘Women Development International Strategies’ on 18 Sept. 2021 at the 1st online 2-Week Refresher Course in Gender Studies (Interdisciplinary) organised by the UGC-Human Resource Development Centre, Jamia Milia Islamia, New Delhi from 2021, September 16-30.

Amulya Kumar Sahoo presented a paper on “Impact Assessment of Lock-Down Amid covid-19 Pandemic on Tourism Industry of India” at the International Conference on Enterprise and Entrepreneurialism in Tourism and Hospitality, organized by the Department of Tourism and Hospitality Management, Jamia Milia Islamia, Delhi from 2022, January 28-30.



Dr. Anamika Rai delivered a talk on the “Counselling Process” in a Training Programme for Newly Appointed Lecturers of SCERT Units and D.I.E.T. under the Holistic Development Scheme, organized by the Bureau of Psychology, Allahabad on 2022, February 24.

Dr. Chayanika Uniyal Panda delivered a lecture as a resource person on ‘Gender and Politics’ in a Short-Term Course on Gender and Development organized by UGC- Human Resource Development Studies, DAVV, Indore in joint collaboration with Vinayakrao Patil Mahavidyalaya, Vaijapur (Maharashtra) (Under UGC Stride Component One) on 2021, October 27.

Dr. Meenu Aggarwal presented a paper on ‘Infant Feeding Practices in a Slum in Delhi’ at an International conference organized by the Amity Institute of Food Technology on 28 2022, March 28.

Dr. Nirmala Shah presented a paper on “Popularisation of Technical and Science Education during Swadeshi Movement” in an International Conference organized by JNU in collaboration with Vijnana Bharti, CSIR-NIScPR and Vigyan Prasar, held on 28 February and 1 March 2022.

Dr. Rachana Dua presented a paper on “Improving Use of Crop Residues in India” at the International Geography Conference organized online by Deccan Geographical Society of India on 2021, September 11.

Dr. Prabha Rani presented a paper titled “Governance, Behavioural Adjustment, and the Pandemic: A Case Study of the Impact of Internet-Based Application as Drivers of Entrepreneurship in Health Sector”, for virtual International Discourse on "Geography of Nostalgia: An Analysis of Behavioural Adjustment Across Spaces During COVID- 19", by International Coordination and Development Programme, Shaheed Bhagat Singh College, University of Delhi on 2022, January 09.

Dr. Rishiraj Pathak delivered a lecture on ‘Music of Sāmagāna’ organized by India Discovery Centre, Boston, America on 2021, June 26.

Dr. Supriya Sinha delivered 6 lectures as part of lecture series on the theme ‘Eco Museums and Theories of New Museology’ at the Department of Museology, National Museum Institute, National Museum, New Delhi, between July- November 2021.

National/International MoUs Signed

MOU with Edunet Foundation, Gurgaon 122018 for joint work on capacity-building of learners through one or more programs managed by Edunet; on 7 Sept. 2021.

MOU with Sona Devi Sthia PG Girls College Sujangarh under Vidya Vistar Scheme of the University of Delhi to expand the basis of friendship and cooperative education exchange with aims to develop academic and educational cooperation to promote relations and mutual understanding; 21 January 2022.

Other Inter-Institutional Collaboration

Dept of Philosophy, SPMC in collaboration with ICPR, organised a national webinar on “Comparative and Critical Study of Philosophical Systems/Movements” on 17 March 2022. Dr. Shivani Sharma (Former Chairperson and Associate Prof. in the Department of Philosophy of Panjab University) and Dr. Anupam Yadav (Assistant Prof. (Philosophy), Department of Philosophy, BITS Pilani, Pilani delivered the talk.

Department of Geography, SPMC in collaboration with Bhartiya Shikshan Mandal organized a one-day National Seminar on 31 December 2021 on the topic ‘Nadi Ko Jano: Human- River relationship- A Socio-Cultural-Environmental Perspective in the 21st century under the auspices of an ambitious initiative by the Central government to create a comprehensive database on river resource of the nation and to spread awareness about the maintenance of cordial interrelationship between human- river through means of several activities and competitions held under the theme.

Department of Hindi, SPMC organised a two-day webinar on the topic ‘Kabir, Bulleshah aur Baba Farid: Sahitya Aur Itihas ke Antahsootra’ in collaboration with the Indian Archaeological Society on 24 February 2022.

Sanskrit Department and IQAC, SPMC in collaboration with Akhil Bharatiya Saaraswata Parishad, Varanasi organised a National Seminar on Sanskrit Vaanmaya men Nadiyaan: Saanskritika evam bhaugolika pariprekshya from 17-18 December 2021.

The Number of Students Placed

33

Number of Companies Visited for Campus Recruitment

Planet Spark, Wipro, Zone Media, Reading Right, Admit Kard, CurioEd.com and S&P Capital IQ India, Humit App, Knowledge Steez, Pineyards Solution, Delhi Public School, Fatima Public Convent School, Utki Language Service, Gems, etc.

Extension and Outreach Activities

NSS SPMC in collaboration with the Centre for Social Development, Delhi organized a Cloth Donation Drive in the college from 20-30 October 2021. The collected clothes were distributed at Deen Dyal Upadhaya Camp, Punjabi Bagh.

Library Development

The library added 1429 books of which 1416 were purchased from the library fund and 13 books were added through donation. The library subscribed to 22 journals, 42 magazines, and 10 newspapers. An amount of Rs.12,36,439.00 was spent towards purchasing books, magazines, journals, etc. during

the year 2021-22. An amount of Rs.6,52,243.00 was spent on library development. The library had a membership of 5126. The College has provided N-LIST: The project entitled “National Library and Information Services Infrastructure for Scholarly content” to fulfill the information requirement of faculty and students through online access to e-books, e-journals, e-databases, etc. to make more accessible to visually impaired students, the library had purchased Kibo device. Kibo device reads and translates printed/handwritten/ digital text in various Indian languages and can store them in pdf and audio files.

Faculty Strength

181

Financial Allocation and Utilization

Rs. 528,062,739/-

Rs. 528,062,739/-

SRI AUROBINDO COLLEGE



Brief History

Sri Aurobindo College was established in 1972, the birth centenary of the philosopher, patriot-poet Sri Aurobindo, with Dr. Ranbir Singh as the principal. As a constituent college of the University of Delhi, the institution has seen remarkable growth over the years. Thirteen teaching and fourteen non-teaching members were a part of the institution at that time. Presently, the college teaching faculty consists of 50 permanent and 78 adhoc members, whereas the

non-teaching staff has 36 permanents and 28 contractual employees.

At the time of its inception in 1972, the college offered only two courses: B.A. and B. Com Pass. Today, the college offers a total of ten courses under CBCS: B.A. (Prog), B.A. English (Hons), B. A Hindi (Hons), B. A Political Sc (Hons), B. Com (Hons), B.com (Prog), B.SC Life Science, B.SC Physical Science, B.Sc. Electronics (Hons) and M.A Hindi. The institution started with 172 students. In 1973, first year



admitted 249 students, while the second year had 160 students. In its academic session 2021-22, the college has a total of 3979 students. B.A (prog) has a total of 1300 students. B.A English (Hons) and Hindi (Hons) have 180 and 198 students respectively. B. Com program and honors together have 1333 students. For science courses, this number stands at 592.

The co-ed college is situated in South Delhi in Malviya Nagar, in the vicinity of Sri Aurobindo Ashram. It is well connected by Delhi's public bus transport system, easily reachable by a two-minute walk from the nearby Malviya Nagar Metro station.

Major Activities and Achievements

In its commitment to social change, SAC has consistently worked towards creating a culture of social responsibility through various activities conducted by its myriad cells/societies.

As an initiative under determined commitment towards Environment protection and conservation, a number of steps have been taken up. For example, solar panel and bio-gas plant with a capacity of one cubic meter have been installed in the college premises. Additionally, there are regular plantation drives and cleanliness drives conducted by the college. Furthermore, awareness programs are carried out to make students as well as residents of nearby areas aware about pressing environmental issues such as "PARIVARTAN", environmental degradation, "OZONATHON" - to raise awareness about harmful effects of ozone depletion and "Pollution Awareness Campaign" with the agenda of encouraging people to adopt eco- friendly habits of switching off their vehicles' engines at red lights.

In order to tackle challenges posed by pandemics like COVID, free COVID vaccination camp was organized in the college in association with the District Magistrate and CDMO-ND, for those aged 44 onwards on 22 June, 2021. The NCC unit of the college set up a COVID helpdesk "MISSION HAUSLA" and helped around 100-120 needy people get oxygen cylinders, ICU beds, Oxygen concentrators and Remdesivir. Infact, as part of its Covid Warriors program, the NSS unit of the college provided information regarding oxygen, hospital beds, ICU beds, ventilator beds, ambulance, and meals to families suffering with Covid. Relevant numbers of hospitals and verified medical leads regarding drug availability were circulated. In addition to these initiatives, SOAP AND MASK DISTRIBUTION drive was

organized by NSS in the slum area of BEGUMPUR on 24 October 2020.

In the area of Gender Equality, Women Empowerment Cell of the college collaborated with Pratisandhi, a youth run non- profit organization aimed at providing medically accurate and stigma free comprehensive sexual education. Self-defense workshops were organized in the college premises to equip young girls from time to time. Initiatives such as rallies to spread the message of menstrual hygiene amongst the masses, Girl Child Walkathon and Walk for a Cause (against Female Foeticide) were also taken.

In the arena of Health and Fitness, Regular health checkups and Blood donation camps were organized by the college. Fitness workshops and yoga sessions, too, were frequently conducted. The college Participated in 75 crore Surya Namaskar Project organized by Ministry of Youth Affairs and Sports from 24 January-13 February 2022.

As far as projects under Enactus are concerned, Project Craftastic created customized mugs, pens and badges. The team visited 8 shelter homes and distributed various things for educational purpose(s). Project Hydra was brought into existence under the UN sustainable goal of water sanitization and hygiene. Under this, they manufactured GERMICIDAL GEL: a hand sanitizer that kills bacteria on hands especially for areas where water is scarce. More than 400 sanitizers distributed to over 400 children and their families. Furthermore, Project Revad emphasized on enhancing the prospects of goat farming which in turn generates employment for many families from Muzaffarnagar in Uttar Pradesh.

Honours/Distinctions

Recently, 15 Associate Prof.s from various departments were successfully promoted to the post of Prof.. There are 30 Associate Prof.s and the rest are Assistant Prof.s.

Our esteemed faculty members have made some tremendous achievements in the past academic year. Prof. Manju M. Gupta, from the Department of Botany delivered a lecture at the University of Lisbon. She also convened an international webinar organized by International Symbiosis Society USA. Dr. Poonam Jain from the Department of Physics delivered an Invited Talk at National E-Conference on Interdisciplinary Research in Science and Technology (NCIRST-20) organised by AIDC. Dr. Seema Kumari from the Department of Hindi published her work

'Pratiuttar' in USA's weekly newspaper's special column Hum Hindustani.

Students with Distinctions

S.No.	Name of Students	Class	Achievement
1	Ananya Banerjee	B.Sc. Physical Science III Year	She has won 65 awards in various Debate Competitions
2	Azra Perween	B.Sc.(H)Electronics III Year	She has secured first position in University.
3	Omprakash	B.A. (P) III Year	He has secured I position in National Sikh Taekwondo game.
4	Ritish Thakur	B.Sc. (Electronics) II Year	He has secured III position in X Senior National Kurash Men's championship.
5	Shreya Dubey	B.A.(P) III Year	She has won many prizes in classical singing .

Publications

Bhatnagar, A. and Aggarwal, G. (2021). Investment in Stock Markets: A Survey of Behavioural Biases of Individual Investors. *International Journal of Research in Finance and Management*, 4 (2), 88-97.

Biswas, Mousumi. (2022). Failure of Policy Implementation and the Dismal Condition of ELL in India. *FORTELL*, 45 (1), 102-112.

Chopra, S. and Chaudhary, M. (2022). A Study of Consumer Ethnocentrism: Review of Antecedents

and Consequences. *MANTHAN: Journal of Commerce and Management*, 9 (1), 100-124.

Gunwal, I. and Mathur, R. and Chauhan, N. and Agrawal, Y. (2021). DNA Barcoding for Identification and Detection of Species. *Letters in Applied Nano Bio Science*, 11(1), 3542-3548.

Kumar Pravita. (2021). Synthesis, Characterization, Antimicrobial, MTT assay, DFT study of Co(II), Ni(II), Cu(II) and Zn(II) Complexes with some New Schiff Base Ligands. *Egyptian Journal of Chemistry*. 64(9), 4995-5008.

Kumar P. (2022). Impact of Coal Mining Activities on Air Environment in the Jharia Coalfield Region, India: A Review. *Indian Journal Environmental Protection (IJEP)*. 42(6), 752-757.

Rajput, N. (2021). Determining the impact of experiential marketing on consumer satisfaction: A case of India's luxury cosmetic industry. *Innovative Marketing (Scopus)*, 17(4), 62-74.

Sharma R. and Bhalla, V. (2022). COVID-19: Challenges in Education and ICT Tools. *IJARESM*, 10 (1), 1026-1037.

Tanwar, L. (2022). Chemical Remediation of heavy metal polluted soil and water. *Anvesak*. 52(1), 169-178.

डॉ. रोशनलालमीना. (2021). भ्रमरगीतपरंपरा और उद्धव-शतक. पत्रिका- सहृदय, ISSN: 2230-8997, 48 (वर्ष- 13), 58-64 .

Patents Filed/Granted

2021103711. ELECTRONIC WASTE MANAGEMENT SYSTEMS AND PRACTICE. Prof. Namita Rajput.

2021103495. A NOVEL SYSTEM FOR DIGITAL MARKETING USING ARTIFICIAL INTELLIGENCE AND BLOCK CHAIN. Prof. Namita Rajput.

202121027191. A Role of Capital Market in Economic Development. Prof. Namita Rajput.

202111038174. The Impact of Industry 4.0 on Finance and Human Resource Management Prof. Namita Rajput.



Seminars Organized

“Bridging Course for working in Bioinformatics Laboratories” was organized by Department of Botany. The speaker of the event was Dr. Erik Holm (University of Mississippi USA) and Prof. Shilpi Sharma (IIT Delhi), which was organized on 22 August 2022.

“Four yearsof GST: The Road Ahead, Understanding the Economic and Financial Analysis of GST and way forward” was organized by Department of Economics. The speaker of the event was Mr. Shishir Sinha, Senior Deputy Editor, The Hindu Business Line. The event was organized on the 02 September 2021.

“Glimpse of Equity Research – Selecting the Right Stock, Understanding the stock markets and the selection of the stable and profitable stock options” was organized by the Department of Commerce, with Mr. ShivanshuSingh CIO, Amico Wealth as the speaker. The event was organized on 13 January 2022.

“Data Visualization and Analysis for Beginners using spreadsheets” was organised by Department of Commerce, with (Dr.) Arun Julka, CMA, as the speaker of the event. The event was organized on 21 September 2021

‘राष्ट्रीयताऔरसुभाषचंद्रबोस’ | हिंदीविभाग |
प्रोफेसरकुमुदशर्मा | 23 जनवरी 2022

Conferences Organized

Personal Financial Planning and E- Filing Of Income Tax Return, 08 September 2021, MHRFDC, Hansraj College, University of Delhi.

Genomics, Metagenomics and Bioinformatics, 16 August 2021, Department of Botany in association with ICMR Computational Genomics Centre, AIIMS (All India Institute of Medical Sciences, New Delhi) in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.

Seminar/Conference Presentations

Prof. Namita Rajput, Department of Commerce presented a paper titled “A study on emotional intelligence” among teachers of Delhi (NCR)-BLM2-

ICAM4 an international joint e -conference- 2021, September 11.

Prof. Pravita Kumar Department of Chemistry presented a paper titled “Transition metal complexes of semi-carbazone and thiosemicarbazone and their microbial activities: A Review” in online International Conference, 2021, October 30, organized by Hansraj College.

Dr. Manish Agrawal, Assistant Prof., Department of Physics presented a paper in the International Conference on "Nonlinear Dynamics and Applications" (ICNDA 2022), organized by Sikkim Manipal University, Sikkim, India during 9th March to, 2022, March 11.

Ms. Parul Puri, Assistant Prof., Department of Zoology presented a paper at the International Conference on Science and Society organized by Miranda House, University of Delhi from 2022, February 23-25.

Ms. Parul Puri, Assistant Prof., Department of Zoology Presented poster at the International Symposium Chemical Wisdom by Her, organized by Deshbandhu College, University of Delhi, January 2022.

National/International MoUs Signed

Solar Panel purchased from HERO Solar Energy Private Limited, Delhi.

Other Inter-Institutional Collaboration

IGNOU

Placement Details

100

Number of Companies visited for campus recruitment

40

Extension and Outreach Activities

To begin with, the Cell successfully organised its first Job and internship fair- ‘NEEV’ on April 18, 2022 under the guidance of Dr. Subhanjali Chopra. Students got a golden opportunity to appear for interviews in 29 companies including the names like Tata, Decathlon, Paytm, NIIT, YTech Raj LLP, Trucknetic, Byjus, Rakhi- The Learning App, The Leprosy Mission, ICICI Prudential, RE, Viral Fission,



Eigopaathshala, Chegg, Shoperty, Onourem, Coral Knowledge Services Private Limited, Ten Marketing, Geetanjali Homestate, The Blue Beans, Athena Executive Search and Consulting, Upgrad, Eat My News, Niteouts, Kcglobed, Adda247. An overwhelming response from the students was received. More than 1000 students across University of Delhi and various other universities registered for the same. Around 315 students appeared for the interviews and applied for 1435 job and internship positions. The data for the selected candidates is being compiled.

A 5-day online student development workshop “GROW – Get Ready for Opportunities at Work” was organized from 17 January 2022 to 21 January 2022. A total of nine prominent speakers were invited, namely, Ms. Saumya Gupta, Ms. Shruti Dandekar, Mr. Mani Makkar, Mr. Shobhit Jindal, Ms. Gowri Ram, Ms. Paramjeet, Mr. Raunak Agarwal, Mr. AswiniBajaj and Dr. Shivani Sharma who guided the students towards a better future in their professional careers. These speakers were professionals from varied fields for students with interests in different work areas. A one-day online webinar for Career Counseling was organized on 11 February, 2022 on Zoom platform. Mr. Alok Bansal was the keynote speaker for this event.

Library Development

An Online library portal for the new and latest content updates had been launched in 2020 for the touch to students to keep them updated about various free courses accessible during Covid-19 Learning times. Furthermore, online Question Papers for users to prepare for OBE-20 exams for final year students too had been put up under E-lib section and linked on Library website. Regularly procured print versions of resources too are acquired, processed and disseminated on timely basis.

Faculty Strength

128

Financial Allocation and Utilization

Found Allocated: 40,41,00,000/-

Found Utilize: 37,00,00,000/-

Other Significant Information

All the cultural societies have been making great strides in their respective fields ever since their inception, earning great accolades across India under the conernorship of Prof. Sangeeta Kaul. A few

achievements of the different societies in the current academic year are listed below.

Bandwagon, the Fashion Society is more than just strutting the ramp in heels. Its aim has been to enlighten people about the issues of gender disparity and has proved to be a perfect portal to put our fashion acumen to productive use. It is working the able guidance of Dr. Vandana Bhalla currently.

The students participated in several colleges across the country and won the following positions, such as, Kamalemdu Acharya won th title of the Best Male at the Campus Vogue organized by SGSCC; Bhabana Chakma won the title of Miss Vogue at Lal Bahadur Shastri Institute of Management; Aarushi Mehta won the title of Best Female at LA Haute Couture at Dr. ADG Institute of Technology and Management etc.

Crunk, the western dance society was founded with the aim to encourage students to explore western art of dancing. Under the able guidance of its convener Prof.Meeta Mathur, Crunk had numerous achievements in the year 2020-21, with highlight being that Crunk made its name to the top in 2020-2021 and stood as DU beat's top team.

Moksh, the Dramatic Society, has experienced many prestigious and proud moments through the years of its existence. They fetched them numerous prizes under the leadership of Dr. Soni Rastogi. Some of the meritorious achievements for the session include their performance in the annual stage production 2020-21 “Women Foregrounded” at BLACK BOX THEATRE FESTIVAL organized by JDMC and won the BEAUTIFUL THOUGHT AWARD for the same. They also stood second for Rangmanch-IMI for Plastic forever, BookShelf's Book festival for child labour and for Abhivyakti – LBSIM.

The Indian Classical and Folk Dance Society of Sri Aurobindo College was established on 24 January 2020 under the conernership of Prof. Sangeeta Kaul. It practices various Indian folk dance forms. Its members have keen proficiency in Sambhalpuri, the most famous dance form of Western Odisha. It depicts happiness. It is performed not for others but for one's own happiness. Soniya, student of Poltical Science Hons, brought accolades for the college through her numerous classical dance performances across the University.

The Debating Society is proud to have a bunch of excellent speakers who have time and again brought laurels for the society and the College. SAGE encourages its members to highlight issues of social and political importance through oratory. The purpose is to inculcate mature and serious outlook towards the world and produce students who can sharpen their analytical skills and contribute towards creating a reinvigorated discourse. Under the guidance of Prof. Aprajita Chauhan and coordinator – Dr. Poonam Jain- Sage participated in various events and secured many prizes that include national-level performances and accolades in the preliminary round of National Virtual Indian Parliament 2020. Taleem: The Indian Music Society of Sri Aurobindo College is meant for the growth and appreciation of Indian musical forms. Taleem is committed to exploring new possibilities and opportunities in Hindustani and Carnatic classical music, striving to merge it elegantly with Indian Traditional Folk, Sufi

and Bollywood genres to create interest among the students and people in Indian classical music. The society has been consistently enlarging its boundaries. Some of Taleem’s major achievements for the academic year 2020-2021 under the convernership of Dr. Vipin Malhotra include its first ever online musical fest Musicana 2021. The event had three categories such as Swaragini, Vaadye Sangeetham, and Sur Sangam.

3Ps is the creative arts society of Sri Aurobindo College. 3P's started back in 2016 with Photography, Painting, and Poster Making but has now become a family of 50 members from different fields like Sketching, Doodling, Rangoli, Craft, Filmmaking and Graphic Designing. The society is led by Dr. Pravita Kumar. Its notable achievements in 2020-21 were the launch of it’s website and YouTube videos.

SRI AUROBINDO COLLEGE (EVENING)



Brief History

Sri Aurobindo College (Evening) established in 1984 is a constituent College of the University of Delhi. The College has completed 38 years that charter all the phases of its growth and success. Each year can be seen as a milestone in the history of this young institution. Since 1988 the College opened its doors to women students too. The College began by offering instructions in B.A. (Prog.) and B.Com. (Prog.) Courses. Over the years courses in B.Com. (Honours), B.A. (Honours) Hindi and B.A. (Honours) Applied Psychology were introduced. The College presently offers the following courses in 1st. year: B.Com. (Hons.), B.Com., B.A. (Hons.) Applied Psychology, B.A. (Hons.) Hindi, B.A. (Prog.), B.A (Hons.) English and B.A (Hons) Economics. Discipline and sincerity are the hallmarks of this institution. Our alumni holding their positions in life - with

responsibility, zeal, courage, and conviction - vindicate our faith in the goals before us.

Major Activities and Achievements

The academic year 2021-2022 has been extremely productive for Sri Aurobindo College- Evening. The moot theme around which the various departments and student societies organized their seminars, conferences, and activities were 'Azadi ka Amrut Mahotsav' and a "Pandemic and Post-Pandemic Scenario' in the social and economic context.

Another significant achievement of the College is an array of new newsletters and journals added by the departments and societies of the College.

The Gender Sensitization Cell and Women's Development Cell need a special mention for various activities organized round the year to create gender



consciousness amongst the students and staff of the College.

Despite the crisis of the pandemic, the students have done exceedingly well in academics, with their CGPA ranging between 7.0 - 9.7.

Alka Singh of B.A. (P) 2nd Year won Silver Medals in the National shooting championship held in January 2022. Mukesh Kumar of B.A. (P) 3rd Year won the gold medal in the Delhi State Boxing championship in January 2022.

Various outreach programmes were successfully conducted since the University of Delhi reopened in the physical mode.

The College proudly announces that five of its faculty members were promoted to the level of Prof. and nine became Associate Prof.s in the academic year 2021-2022.

Students with Distinctions

S.No.	Name of Students	Class
1	Vaishali Tanwar	II nd Year B. A. (Hons) Economics 9.61 CGPA
2	Bhaskar Singh Bhakuni	II nd Year B. Com. (Hons) 9.61 CGPA
3	Manvi Ahuja	B. Com. (Hons) 9.57 CGPA
4	Alka Singh	B.A (Prog.) 2nd Year won four Silver Medals in National shooting championship held in January 2022
5	Mukesh Kumar	B.A (Prog.) 3rd Year won gold medal in Delhi State Boxing championship in January 2022.

Seminars Organized

A lecture on 'Postponement of Caste Discontent: Ambedkar and Sikhism' in the Seminar Literature, Caste, and Freedom Movement, by Prof. Akshay Kumar Chairperson, Department of English and Cultural Studies, Punjab University, Chandigarh, held on 30 Sept. 2021.

A lecture on 'Situating Women in the Freedom Movement: How important was their role in shaping the Struggle' by Prof. Vijayalaxmi Singh Prof., Department of History, University of Delhi on 16 Oct. 2021.

A lecture on '75 years of Independence: Achievements and Challenges' by Prof. Rajnish Kumar Shukla, Vice Chancellor, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Vardha, organised on 26 August 2021.

A lecture on 'Career Opportunities in the USA for Commerce students, by Mr. Kamal Chhabra, CEO and lead instructor, KC, GlobED, organised on 30 Sept. 2021

A lecture on 'India's Growth Story: Structural Challenges, Pandemic and The Way Ahead' by Dr. Mausumi Das Prof., Institute of Economic Growth, Delhi, held on 22 Sept. 2021.

Seminar/Conference Presentations

'Exploring Techno-stress among the school teachers during the on-line teaching in Corona Era', paper presented in the National Seminar on Stress Management: A Holistic Perspective, organized by Akal university & ICSSR on 2021, December 06, by Dr. Monika Rikhi of the Department of Applied Psychology

Panel Presentation on 'Doing Business in Asia: Frontrunner for Disruption, Megatrends, and Transformation' at the IBM Academy of International Business Annual Conference on 2021, July 02, by Prof. Sumati Varma of the Department of Commerce

Paper presented on 'Development and Growth of Indian EIVs' at AIB South Asia Conference on 2022, January 23, by Prof. Sumati Varma of the Department of Commerce

Paper presented on 'Role of PRA Approach in managing Covid-19 Pandemic in Rural India' at the International Webinar on "Psychosocial Factor in Sustainable Health and Well-being" organized by Faculty of Behaviour and Cognitive Sciences, Chaudhary Bansi Lal University, Bhiwani, on 2021, June 17-18, by Dr. Pragyendu of the Department of Applied Psychology

Presented a paper titled, 'दिनेश नंदिनी डालमिया: बीसवीं शताब्दीय मारवाड़ी समाज और नारी चेतना' in the 35th session of Rajasthan History Congress Udaipur 3-4 September 2021 by Dr. Anisha Srivastava of the Department of History

Presented a paper titled, 'राजस्थान मे गाँधीवाद के विलक्षण प्रतीक हरिभाऊ उपाध्याय उर्फ 'दा साहब' in the



36th session of Rajasthan History Congress Jodhpur 2022, February 26-27, by Dr. Anisha Srivastava of the Department of History

Other Inter-Institutional Collaboration

Prof. Sumati Varma of the Department of Commerce with Prof. Surender Munjal of the University of Leeds
 Prof. Sumati Varma of the Department of Commerce with Prof. Vikrant Shirodhkar and Prof. Rishika Nayyar of the University of Sussex
 Prof. Sumati Varma of the Department of Commerce with Prof. Monica Adya of Rutgers University, USA
 Prof. Sumati Varma of the Department of Commerce with Prof. Gabriele Suder, Federation University, Australia
 Prof. Sumati Varma of the Department of Commerce with Prof. Terence Tsai, China Europe International Business School, China

The Placement Details

20 recruitments besides 160 internships

Number of Companies Visited for Campus Recruitment

85

Extension and Outreach Activities

The Society ENACTUS organized a Daan Utsav from 5-10 October 2021
 Project Annapoorna by the Enactus Society

Project Ishta by the Enactus Society
 Diwali Distribution Drive on 31 October 2021 by the NSS unit of the college

Library Development

Remote Access to N-LIST E-Resources: The College library is also a member of N-LIST (INFILIBNET) E-Resources. The library created a member ID login for the students and faculty members and provided a remote login access facility for N-LIST e-resources.
 DU “e-Library”: The College library provides access to full-text learning e-Resources for faculty Members Through DULS.
 Open E-resources Links: The College library has provided and uploaded E-books /E-Resources links on the college website to access E-Resources.
 Installation and Implementation E-Granthalaya 4.0 software: During this year library has installed and successfully implemented new Cloud-based software, namely E-Granthalaya 4.0 software, and almost completed the computerization process of Library Services.

Faculty Strength

68

Financial Allocation and Utilization

Rs. 29 Crores
 Rs. 22.1 Crores

SRI GURU GOBIND SINGH COLLEGE OF COMMERCE



Brief History

Sri Guru Gobind Singh College of Commerce, established in 1984 as the University of Delhi's second commerce college, is a prestigious institution offering dedicated courses in commerce, economics, business studies, and computer technology. The

College is supported by the Delhi Sikh Gurudwara Management Committee, a statutory body, constituted under an Act of Parliament. The College is proudly named after Sri Guru Gobind Singh Ji, the tenth Sikh Guru. Drawing inspiration from the teachings of Sikh Gurus, the College encourages its



scholars to imbibe universally accepted moral and spiritual principles. Initially, the College was housed in "barracks" with inadequate resources, a total enrollment of 129 students, and just six teachers. The joint efforts of individuals involved with the institution have propelled SGGSCC to new heights of glory and success, with a strength of around 2200 students and a teaching faculty of around 75 academics.

Major Activities and Achievements

In 2021-22, the College continued to strive toward excellence. Our students did us proud academically as well as in sports. The college also participated in a survey on "Green Initiatives and Sustainable Measures" by the Ministry of Rural Development and Education and received the Sustainable Campus Award after the inspection by officials of the Ministry of Rural Development about the green initiatives taken by the college. We extended our available resources and used online platforms like Google Classroom, Google Meet, Zoom, SmartProf. App, etc. to not only continue with the teaching-learning activities but also for imparting training and extending support for social outreach programmes. The Centre for Professional Development organised 18 add-on courses, workshops, and mentoring sessions online for the students. The young enthusiasts of the environment club, Ecosperity's continued to put forth flourishing efforts for the common good of the environment and society. Some innovative ideas taken up included 'Wallpaper Wednesday', a weekly series put forward on Instagram, 'Butterfly: Camera Ready' a six-day Online Photography Event, and a 'Toilet Etiquette Drive'. Members of the NSS and the Rotaract Club of the College organised several socially relevant campaigns both online and offline. The Women's Development Cell organised webinars on female health and hygiene- PCOS and Breast Cancer Awareness, as well as psycho-legal aspects of women's safety in the digital space.

Students with Distinctions

S.No.	Name of Students	Class
1	Kritika Chawla of the Department of Economics obtained Cumulative Grade Point Average (CGPA) of 9.608 and was awarded - The Erachshah Maneckji Nanavutty Memorial Prize (for securing the first position amongst women candidates in B.A.(Hons.) Economics Examination and obtaining the First Division), Ravi Kanta Devi Prize and Shri Mudiylil Padmanabha Pillai Memorial Gold Medal at the 98th Convocation of the University of Delhi.	B.A. (Hons.) Economics (Batch 2018-21)
2	Sonam of the Department of Punjabi secured a CGPA of 8.905. She was awarded the Sardar Mohan Singh Memorial Gold Medal at the 98th Convocation of the University of Delhi for securing the highest percentage marks in B.A.(Hons.) Punjabi Examination and obtaining a First Division.	B.A. (Hons.) Punjabi (Batch 2018-21)
3	Pryasha Madaan of the Department of Business Economics secured a CGPA of 9.446 and was awarded a University Medal at the 98th Convocation of the University of Delhi for securing the highest percentage marks in B.A.(Hons.) Business Economics Examination.	B.A.(Hons.) Business Economics (Batch of 2018-21)
4	Paarth Makhija won the Bronze Medal in the 10 mtr Air Rifle Shooting at the 64th National Shooting Championship held at Bhopal in December 2021.	B Com



Publications

Chopra, M., Saini N., Kumar S., Varma, A., Mangla, S. K., & Lim, W. M. (2021). Past, present, and future of knowledge management for business sustainability. *Journal of Cleaner Production*, 328(NA), 65-95.

Kaur, G. (2021). Inflation and fiscal deficit in India: An ARDL approach. *Global Business Review*, 22(6), NA.

Kalra, V., Kashyap, I., & Kaur, H. (2022). Generation of domain-specific vocabulary set and classification of documents: weight-inclusion approach. *International Journal of Information Technology*, 14(1), 275-285.

Khanna, M. (2022). A Systematic Review of Ensemble Techniques for Software Defect and Change Prediction. *e-Informatica Software Engineering Journal*, 16(1).

Dodrajka, S. (2021). Just-in-Time Technology: A Technique for Achieving Excellence in Operations and Logistics Management. *Review of Professional Management*, 19(1), 15-23.

Gupta, R., Kumari, S., & Kaur, H. (2021). Role of Industrial Visits in Enhancing Learning Quality of Commerce and Business Students. *Turkish Online Journal of Qualitative Inquiry*, 12(3), 1206-1217.

Kaur, B., & Kaur, N. (2021). Bridging the Financial Inclusion and Digitalization Gender Gap in Driving Economic and Sustainable Growth. *Administrative Development: A Journal of HIPA, Shimla*, 8(1).

Singh G. (2021). Using Social-Media and Networking Sites as Tools in Marketing and Promotion of Library Services in the Present Situation. *International e-Journal of Library Science*, 9(1), 43-52.

Kaur, H. (2021). Predictive Power of the India VIX-Indian Stock Market Fear Gauge. *Indian Journal of Commerce*, 74(1 & 2).

Nanda, A. (2022). Beyond Budgeting –Towards achieving Sustainable Economic Development. *International Journal of All Research Education and Scientific Methods*, 10(2).

Journals

University of Delhi: 99th Annual Report 2021-22

The Editorial Committee of the Journal is headed by the Principal, Dr. Jatinder Bir Singh and comprises the following six faculty from the college - Managing Editor- Dr. Paramjeet Kaur, Associate Prof., Department of Economics; Dr. Gurminder Kaur, Associate Prof., Department of Commerce; Dr. Harpreet Kaur, Assistant Prof., Department of Economics; Dr. Harvinder Kaur, Associate Prof., Department of Commerce; Dr. Kawal Gill, Associate Prof., Department of Commerce; and Dr. Rekha Sharma Associate Prof., Department of Economics. (April 2021-March 2022). *Journal of Business Thought*, Annual, 12, 110.

Research Projects

CoE, SGGSCC, 2019-2021, Municipal Solid Waste Management, Rs. 100,000/-

CoE, SGGSCC, 2019-2021, Impact of Social Media Applications on Young Children in Delhi, Rs. 100,000/-

CoE, SGGSCC, 2019-2021, Financial Inclusion of Underprivileged - How Inclusive: A Case Study of Delhi NCR, Rs. 100,000/-

CoE, SGGSCC, 2019-2021, Exploring Challenges faced by the international Students Community and Devising a Web-Based solution- An Empirical Study Based on University of Delhi, Rs. 100,000/-

Seminars Organised

Seminar organised on 'Competition and Prices in Agricultural Markets, Agricultural Economics' on 04 Aug. 2021, with the speaker, Prof. J.V. Meenakshi, Prof., Department of Economics, Delhi School of Economics.

Seminar organised on 'Sustaining Biota in the Anthropocene' during the World Wildlife Week 2021, held on 09 Oct. 2021, with the speaker, Dr. Vinita Gowda and Dr. K. SivaKumar Associate Prof. in the Department of Biological Sciences at the Indian Institute of Science Education and Research, Bhopal, and Scientist-F and Coordinator, Environment Information System Centre at Wildlife Institute of India.

Seminar organised on 'Youth participation as electorates for a healthy democracy, Voter Awareness' on 17 Jan. 2022, with the speaker, Prof. Ashutosh Kumar Lala Lajpat Rai Chair,



Department of Political Science, Panjab University, Chandigarh.

Seminar organised on 'Union Budget 2022, budgetary allocations and key takeaways for Union budget to stimulate growth under covid pandemic', 04 Feb. 2022, with the speaker, Dr. Radhika Pandey, Senior Fellow, NIPFP.

Seminar organised on 'Knowledge of Law Enables Realization of Legal Rights, Legal Rights Awareness', 14 Feb. 2022, with the speakers, Ms. Jyotika Kalra and Ms. Ayushi Chugh, Executives with Lex Locum Consultants.

Conferences Organized

The 6th Biennial International Conference themed "Financial Ecosystem: Disruptions and the Way Forward", 10 March 2022.

Vimarsh 2021, the 5th Biennial Convention on the topic "The Financial Ecosystem: Disruptions and the Way Forward" on 08 April 2021.

Conference on "Work and Working Population" organised on 25 Oct. 2021.

Conference on 'Achiever's United '22 organised on 19 Feb. 2022.

Seminar/Conference Presentations

Dr. Renu Gupta, Prof., Department of Commerce, and Ms. Manleen Kaur, Assistant Prof., Department of Commerce, jointly presented a paper titled "Mapping the field of Disposition Effect: A Bibliometric Analysis using Vos viewer" at the 6th Biennial International Conference on the theme "The Financial Ecosystem: Disruptions & the Way Forward" organised by SGGSCC in association with the Department of Commerce, Delhi School of Economics, University of Delhi on 2022, March 10-11.

Dr. Meenu Chopra, Assistant Prof., Department of Management Studies, presented a paper titled 'Non-financial disclosure and Firm Performance' at the 6th Biennial International Conference on the theme "The Financial Ecosystem: Disruptions & the Way Forward" organised by SGGSCC in association with the Department of Commerce, Delhi School of Economics, University of Delhi on 2022, March 10-11.

Dr. Gurleen Kaur, Assistant Prof., Department of Economics, presented a paper titled "Digitalization-led Bank Stability: An Empirical Evidence from Select Indian Banks" at the 6th Biennial International Conference on the theme "The Financial Ecosystem: Disruptions & the Way Forward" organised by SGGSCC in association with the Department of Commerce, Delhi School of Economics, University of Delhi on 2022, March 10-11.

Dr. Gurminder Arora, Associate Prof., Department of Commerce, presented a paper on the topic "Work life balance for Women During Work from Home" at the Online International Conference on Human Resource Management: Paradigm Shift and Innovative Practices, organised by Janki Devi Memorial College, University of Delhi, on 2022, March 04.

Dr. Neha Goyal, Assistant Prof., Department of Environment Studies, presented a paper titled "Sustainability Transitions in Higher Education Institutions" at a National Conference on Promoting Sustainability in Colleges and Villages organised by Mahatama Gandhi National Council of Rural Education, Ministry of Education, Government of India in March 2022.

Dr. Renu Gupta, Prof., Department of Commerce, and Ms. Manleen Kaur, Assistant Prof., Department of Commerce, jointly presented a paper titled "Behavioral Finance in the 21st Century: A Bibliometric Analysis" at the 1st International Conference on Emerging Issues in Business and Economic Research organized by Rajdhani College, University of Delhi on 2021, December 17-18.

Dr. Gurminder Arora, Associate Prof., Department of Commerce, presented a paper titled " Financial Inclusion- A Study of Urban Poor Evidence from India " and participated as a discussant in World Banking and Finance Symposium, 2021, December 17-18, in Budapest.

Dr. Tarvinder Kaur, Assistant Prof., Department of Punjabi, presented a paper titled 'Kulwant



Singh Virk Dian Kahania vich Samvad toh Achetan da Safar' at a three-day International Conference on 75th Year of Hindustan Partition & in remembrance of the Humanist Kulwant Singh Virk Birth Centenary organized by Mata Sundri College for Women, University of Delhi on 2021, November 26-28.

Dr. Deepa Kumar Assistant Prof., Department of Punjabi, presented a research paper entitled "Punjabi Minni Kahani Vich Samajik Sarokara di Peshkari" in the 27th Antar Rajai Minni Kahani Samagam organised by Minni Kahani Lekhak Manch, Amritsar, Punjab on 2021, October 16-17.

Ms. Bimaldeep Kaur, Assistant Prof., Department of Commerce, presented a paper titled "Bridging the Financial Inclusion and Digitalization Gender Gap in Driving Economic and Sustainable Growth" at the International Conference on "Advances in Management and Technology for Sustainable Development" held on 2021, September 04-05.

The Placement Details

315
71%

The Number of Companies Visited for Campus Recruitment

69

Extension and Outreach Activities

The Rotaract Club initiated an online campaign on "Post Traumatic Stress Syndrome" which was launched on 17 January 2022, with the aim to educate the audience about the less-known yet widely prevalent mental illness. The first post focused on the basic introduction, whereas the second post delved deeper into the various complexities associated with the disorder. The final post aimed at de-stigmatizing therapy and promoting self-care among trauma survivors.

NSS in collaboration with ITC and E-Sree Foundation conducted their second awareness campaign on 25 October 2021 in C-9, Vasant Kunj on the topic "Improper Waste Disposal System in the National capital", wherein the

teams of NSS and E-Sree Foundation went door to door and discussed the types of waste generated, recycling and composting, how composting should be done along with greater insights and what is being done in households and what should be done instead to reduce waste. NSS Team organised a Food Donation Drive outside the college campus on 31 October 2021, and distributed food to those in need in an effort to brighten their Diwali. The society members assisted in the distribution of 100 food packets to individuals in need. NSS also tried to light as many homes as possible. The "Diwali Street Vendor Project" was organised on 4 November 2021, aimed to promote local vendors and urge people to shop from them instead of major brands or global corporations.

Ecosperity organised an environmental excursion to the Yamuna Biodiversity Park on 26 February 2022 to commemorate "Jagrukta Abhiyan". The learners found it an enthusiastic experience realising a sense of responsibility towards the environment.

Enactus initiated two projects "Amanat" and "Nivaran". The former provides a comprehensive model that intends to target the waste crisis by facilitating the barter of waste for need-specific incentives supplemented with additional measures to eliminate waste generation altogether. It promotes a zero-waste lifestyle while streamlining the efforts of three different communities to create a circular economy model. The second Project "Nivaran" works towards the efficient removal of water hyacinth from water bodies for its conversion into by-products such as handicrafts, biochar, and sanitary pads while working towards the holistic development of the afflicted communities.

Library Development

Digitisation of rare and other useful documents has been initiated. The library has started subscribing to the Economist and Harvard Business Review online. A new section announcing the "new arrivals" has been initiated on the online library.



Faculty Strength

76

Financial Allocation and Utilization

₹ 27,70,00,000/-

₹ 23,11,94,779/-

SRI GURU NANAK DEV KHALSA COLLEGE

Major Activities and Achievements

The academic year 2021-2022 was a year of challenges, opportunities and accomplishments for Sri Guru Nanak Dev Khalsa College. The academic environment of the college remained intense with our erudite faculty providing an enriching teaching learning experience to the students. As a testimony to the sustained and immense hard work of the teaching and non-teaching staff and quality of education being provided over the past five years, the college was awarded Grade A (CGPA 3.14) by the National Accreditation and Assessment Council (NAAC) in April 2022.

Since majority of the session was held in an online mode, most of our activities were held on virtual platforms. Under the guidance of the IQAC of the college, a number of webinars, online talks, lectures, workshops and conferences were organized aimed at capacity building and skill enhancement of the students. Short term course on 'Financial modelling' and a 10-hour bridge course on 'Punjabi language and script' course was conducted by Department of Economics and Department of Punjabi respectively. Faculty members attended/participated in a number of seminars/ webinars, FDP, workshop and conferences to further enhance their knowledge in their respective fields.

Apart from academic excellence, our college societies also excelled in extra-curricular activities. The NCC and NSS conducted a number of activities that instilled a sense of nationalism, social responsibility and awareness among students and nearby communities. The Internal Quality Assurance Cell (IQAC) organised a number of online talks, National webinars and workshops that catered to faculty, Administrative staff as well as students.

Honours/Distinctions

Dr. Paramjit Kaur was awarded for her work in the field of Punjabi language, Literature and Culture by Punjabi Pracharni Sabha and Punjabi Lok Manch, Delhi on 20 Feb, 2022

Publications

Ahuja, M. (2021). Trade between India and Selected Countries of Latin America: A Revealed Comparative Advantage Approach. *Online Open Journal of Economics and Business (OJEB)*. ISSN -2582-9556, 1(1): 1-16.

Ahuja, M. (2021). Prospects of India and Brazil Trade Relations: An Empirical Investigation *VARTA (Journal of Bhartiya Arthik Shodh Sansthan [Indian Institute of Economic Research])* ISSN - 0970-9177. 41(2).

Kaur, A., Dangi, H.K. (2021). Social Networking Sites and Civic Participation: Analyzing the Mediating Role of Online Bridging Social Capital. *Transnational Marketing Journal*, ISSN 2041-4684.

Kaur, A., Sachdeva, S., Aggarwal, A. (2021). Impact of financial attitude on financial management behaviour of retail investors: A COVID-19 perspective. *Trans-national Marketing Journal*. ISSN 2041-4684.

Khurana, S. (2021). The Ones that could not get away: Immobility of Aspiring Emigrants; its Causes, Impact and Solutions. *Journal of Sikh and Punjab Studies*, 28(1). ISSN: 0971-5223.

Journal

Journal of Research and Innovation

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board = 6



Seminars organized

A webinar on the topic 'Digital Marketing and New Strategies Amid COVID' was organized by Department of Commerce on 28 April 2021

A webinar on the topic 'Building Resilient Career' was organized by Vanaj Society (Department of Commerce) on 6 May 2021.

A webinar on the topic '*Vartmaan Vikas Prakriya aur Hindi ki Bhumika*' was organized by Hindi and Hindi Journalism Department on 15 September, 2021.

A webinar on the topic 'Climate Change and the Himalayas' was organized by EnviSAGE society (Department of Environmental Studies) on 16 September 2021.

A webinar on the topic 'The Crisis of Afghanistan and its Impact on India' was organized by Department of Political Science on 23 September 2021.

A webinar on the topic 'History and Heritage' was organized by Department of History on 28 September 2021.

A webinar on "Short Films in India" was conducted by Encore society (Department of English) on 30 September, 2021.

Conferences Organized

Two-day online student conference on "Superheroes and Social Justice" was organised by Encore society (Department of English) on 15 and 16 March 2022.

Seminar/Conference Presentations

Mamta Ahuja presented a paper entitled 'An Analysis of Kaur, Paramjit presented a paper entitled 'Savrajbir da Export Competitiveness of Indian Agricultural Products' in National webinar with Selected Latin American Countries' in the National seminar organized by Mata Sundri College, University of Delhi seminar organised by the Department of Economics on 20 September 2021.

Maharshi Dayanand University, Rohtak (Haryana) held on 2021, March 26.

Placement Details

Placement Details: 150

A webinar on the topic 'Power of Perseverance' was organized by National Cadet Corps on 8 October 2021.

A webinar on the topic '*Badalte Shaikshik Parivesh Mein Shikshak Ki Bhumika*' was organized by Hindi and Hindi Journalism Department on 6 December 2021.

A webinar on the topic 'Political Voices: Independence and Partition' was organized by Department of History on 24 January 2022.

A webinar on the topic 'Ethical Hacking' was organized by Cyberclas society on 29 January 2022.

A webinar on the topic 'Navigating the challenges in public service delivery' was organized by Department of Political Science on 28 January 2022.

A webinar on the topic 'Rejection is Redirection: Handling your rejections fearlessly' was organized by Project S.E.V.A on 15 February 2022.

A webinar on the topic 'How to write a research paper' was organized by SOFICA society from 12 to 26 March 2022.

An online International Conference titled 'Digitalization-The Future of Finance' was organized by SOFICA society on 6 April 2022.

Number of companies visited for campus recruitment: 42



Extension and Outreach Activities

Number of Extension and Outreach Activities organized:35

Project S.E.V.A (Supporting and Empowering through Volunteering and Assistance) team of the college put up helpdesk was put up to help people find oxygen, hospital, medicines, plasma,

Project S.E.V.A conducted a total of 44 online sessions to teach students about topics like waste management, road safety and water

Project S.E.V.A. team celebrated the festival of Diwali with the children of a shelter home called 'Flag Children Home'. 10 volunteers along with

The National Service Scheme (NSS) organized free medical health camp, Swachhata Pakhwara,

Cyber Clan organized a webinar on Cyber Security which was addressed by Mr. Ankush Mishra,. He is Deputy Superintendent of Police, STF and Cyber

Photobug, the Photography society of the college launched the first issue of the magazine, CAPTURRA. This photography magazine is a

ambulance, oxygen beds, and food services. The team also maintained a database of all the information gathered from different sources and verified frequently.

conservation. The volunteers mentored the children through interactive video lectures and presentations.

two teachers visited the home on 28th October to interact with the children.

awareness programs, collection drive for collecting old materials for donation.

Crime, Uttarakhand Police, with the aim spreading awareness about Cyber frauds originating more in the online ere.

platform for students across the country of showcase their photography skills through the images captured.

Library Development

Detail of College library books added during the academic year 2021-22

General Fund	: 1001
SAF (Students' Aid Fund)	: 24
BBE (Bachelor of Business Economics) Fund:	15

Hindi Journalism Fund :39

Details of Periodicals Collection of the Library are as follow:

Journals subscribed in current year	: 12
Magazines	: 27
News Papers	: 13

Faculty Strength

Permanent: 53
Adhoc: 32

Financial Allocation and Utilization

Non-Plan expenditure for the academic year 2021 – 22 is approximately 4081.09 lacs rupees.

SRI GURU TEGH BAHADUR KHALSA COLLEGE



Brief History

Sri Guru Tegh Bahadur Khalsa College, a constituent college of University of Delhi, was established in 1951 and is maintained by the Delhi Sikh Gurudwara Management Committee (DSGMC), a statutory body established under an Act of the Parliament of India. The College started in a school building in Dev Nagar and shifted to its present premises in North Campus in 1973. The focus of the College at the time of its inception was to ensure a comprehensive social transformation through access to quality education, in particular to young Punjabi refugees of Partition in 1947, and to conserve and promote the Punjabi language, culture, and heritage. The College is named after the 9th Guru - Sri Guru Tegh Bahadur, who sacrificed his life to uphold secular values, and is an institution with a cosmopolitan environment and progressive outlook.

Major Activities and Achievements

The College published a special edition magazine on Sri Guru Tegh Bahadur Ji dedicated to the Guru's legacy to commemorate 400 years of his martyrdom. Symposia and webinars were also organised to provide a glimpse into the life and teachings of the Guru. The College commemorated the 400th Guru Purab of Sri Guru Tegh Bahadur Sahib Ji and College Founder's Day on 7 December 2021.

The College organised several events involving a

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large number of students and teachers under the aegis of Azadi Ka Amrit Mahotsav to commemorate 75 years of India's Independence. These initiatives included students' trips to various institutions linked to Mahatma Gandhi and the freedom struggle and quiz competitions, debates, and photography exhibitions on the theme 'freedom movement.'

The College organized a webinar on Admission to the UG and PG courses of University of Delhi, and a three-week free teacher training programme for TGT teachers under the Delhi Sikh Gurudwara Management Committee. The students of our college showed exemplary performance in academics and sports. GAD-TLC at the College conducted 70 online events in collaboration with various institutions which were attended by more than 22,910 participants from across the country.

Honours/Distinctions

Principal, Prof. Jaswinder Singh presided over Global Sikh Conference at Sultanpur Lodhi. He also authored a book Sri Guru Nanak Dev Ji: Sublime Life and Social Perspective, published by IGNC, Ministry of Culture, Govt. of India.

Dr. Dharmendra Kumar was awarded the 'India Top-cited Paper Award 2021' in Physics by IOP Publishing.

Ms. Gaganpreet Kaur Chadha was awarded the 'Best Presentation Award' at the Young Scholars' Conference 'Exploring New Research Frontiers in Social Sciences' organized online by the Society for Social and Economic Research, New Delhi on 15-16 January 2022.

Students with Distinctions

S.No.	Name of Students	Class
1	Bharat Sai Narayanan	M.A. English
2	Tushar. K. Manna	B.A.(H) History
3	Dhruv Rawat	B.A. (H) English
4	Vansh Yadav	B.A.(H) History
5	Gopal	B.A. (Prog)

Publications

Kumar S., Kumar D., & Wazwaz, A.M. (2021). Lie symmetries, optimal system, group-invariant solutions, and dynamical behaviors of solitary wave solutions for a (3+1)-dimensional KdV-type equation. *The European Physical Journal Plus*, 136(NA), 531.

Batra, K., Sinha, N., & Kumar B. (2021). Ba-doped ZnO nanorods: Efficient piezoelectric filler material for PDMS-based flexible nanogenerator. *Vacuum*, 191(NA), 110385.

Kumar S. & Kumar D. (2021). Generalised exponential rational function method for obtaining numerous exact soliton solutions to a (3 + 1)-dimensional Jimbo–Miwa equation. *Pramana- Journal of Physics*, 95(4), 152.

Kumar S. & Kumar D. (2022). Analytical soliton solutions to the generalized (3+1)-dimensional shallow water wave equation. *Modern Physics Letters B*, 36(2), 2150540.

Bharadvaja, A., Kaur, S., & Baluja, K.L. (2021). A study of electron scattering from O₃ and its isovalent molecules from 0.1 to 5 keV. *Pramana*, 95(NA), 167.

Kumar S., Sinha, N., Goel, S., & Kumar B. (2021). Trypan blue stained KAP crystal: A comparative study on morphological, structural, optical, di-/piezoelectric and mechanical properties. *Chinese Journal of Physics*, 72(1), 655-669.

Singh S.K., & Kaur, S. (2021). Justifying the classical partition function for bosonic and fermionic systems using computer-based experiments. *European Journal of Physics*, 43(1), 015101.

Singh S.K., Rawat, N., Singh S. & Kaur, S. (2022). Re-exploring the Penney-Ante Game. *The American Statistician*, 76(2), 177-183.

Nimesh, M., Kang, R., & Joon, D. (2022). Screening the paper currency for Mycobacterium tuberculosis using loop-mediated isothermal amplification. *Journal of Applied Biology and Biotechnology*, 10(1), 221-225.

Wadhwa, A. (2021). Study of coefficient of discharge through orifices. *European Journal of Physics*, 43(1), 015702.

Research Projects

Department of Biotechnology (DBT), Ministry of Science & Technology, Govt. of India, the Year 2019-2022 for 3 years, Designing and evaluation of point of care diagnostic assay for detection of MDR. Tuberculosis using Loop-mediated isothermal amplification combined with lateral flow dipstick, 74.83 Lakhs

Institution of Excellence (IoE), University of Delhi, one year, Synthesis and characterization of nanoparticles for piezoelectric applications, 3 Lakhs Patents Filed/Granted

362827- A Novel Oligonucleotide-Based Diagnostic Probe/Tool/Kit for Tuberculosis Detection and Method of Working for the Same

375771- A vapor phase formulation and a process for detecting latent fingerprints on different surfaces.

Seminars Organised

A seminar on 'Implementation of Academic Bank of Credits, National Education Policy' on 10 July 2021, with the speaker, Prof. Sandeep Sancheti, VC, Marwadi University, Gujarat.

A seminar on 'Legacy and Life of Sikh Gurus', on 18 Sept. 2021, with the speaker, Pritipal Singh Kapur, Former Pro-Vice Chancellor GNDU, Amritsar, Guru Nanak Dev Ji's Legacy of Kartarpur.

A seminar on 'Agriculture productivity and prices in India, Economics Lecture Series, on 11 Feb. 2022, with the speaker, Prof. J.V. Meenakshi, Prof., DSE, University of Delhi.

A seminar on 'Gravitational Waves and Lensing wave optics, Geometric Limit, Quantum Physics, on 21 Jan. 2022, with the speaker, Dr. Jasjeet Bagla, Prof., Dept. of Physical Sciences, IISER Mohali.

A seminar on 'Allegory: A Tapestry of Guru Nanak's Travels, Documentary series on Guru Nanak Dev Ji, on 23 Feb. 2022, with the speaker Amardeep Singh Author, and Film-maker.



Conferences Organized

Hindi Mein Vigyan Sanchar: Pariprekshya aur Chunautiyan, 30 Sept. 2021, SGTB Khalsa College.

Seminar/Conference Presentations

Principal, Prof. Jaswinder Singh was an invited speaker on the 400th Birth anniversary of Sri Guru Tegh Bahadur Sahib in an international seminar organised by O.F.C., Canada. He also delivered a lecture at the regional centre of retraining and higher education of teachers at Samarkand State University, Uzbekistan on 2022, March 25. In addition, he was a resource person for more than 35 sessions in various faculty development programmes/webinars/workshops organized by GAD-TLC.

Rajshree Dhali presented a paper titled "Pilgrimage in the Time of Covid-19" on 2021, July 01, at the 8th Global Conference of Sacred Journeys, organised by Indiana University Purdue University Indianapolis (IUPUI) online.

Dr. Manoj Kumar Nimesh was the resource person on "AIDS: Prevention and Precautions" in the World AIDS Day awareness Seminar organised by C.H.L. Govt. College, Haryana on 2021, December 03.

Gaganpreet Kaur Chadha presented a paper titled 'Impact of Fiscal Deficit on Real Interest Rates: Evidence from 110 Countries' at the Young Scholars' Conference Exploring New Research Frontiers in Social Sciences organised online by the Society for Social and Economic Research, New Delhi on 2022, January 15-16.

National/International MoUs Signed

The College has signed an MoU with Guru Kashi University, Talwandi Sabo, Punjab to carry out research projects and other academic collaborations under the Vidya Vistar Scheme launched by University of Delhi. These institutes will organise lectures, workshops, and training programmes and carry out collaborative research under the project.

Other Inter-Institutional Collaboration

The College has an ongoing collaboration with the University of Carleton for joint research projects including an exchange program for teachers and students.

The Placement Details

170

15%

The Number of Companies Visited for Campus Recruitment

22

Extension and Outreach Activities

In an attempt to learn and contribute in an efficient way of utilizing waste to help protect our environment an event 'Inno-waste' -innovate from waste, a Best out of the Waste competition was held by the NSS team from 3-6 April 2021.

An online workshop on 'Stereotype Shutdown' was organised on 20 April 2021 in collaboration with Youth Action Hub, a global initiative in 40+ countries National Service Scheme in association with Shine projects (India's fastest-growing education company) organised a webinar on the Stock Market on 29 May 2021.

A two-day live yoga session was organised on the occasion of the International Yoga Day on 20-21 June 2021.

A webinar on 'Unlocking Happiness' was organised on 19 July 2021 in collaboration with Emo Matrix with Mr. Suveen Kumar a Psychotherapist, UNICEF Philanthropist, NLP Master Practitioner, Counseling Psychologist, and United Nations NGO member, as the guest speaker to enlighten the audience on how to deal with anxiety and anger. On the occasion of the 56th NSS Day, 'Project Khwaish' was launched on 24 September 2021. The aims and objectives of the project include encouraging the youth to take a step forward towards humanity and help the needy; sharing smiles and sorrows, happiness and grieves and showering care over the less fortunate ones; and spreading hope, positivity, and brotherhood with humble gestures of love and compassion. A Webinar on "The impact of our food choices on the planet, health, and animals" was organised by NSS in collaboration with the Vegan Outreach organization on 6 October 2021. The NSS SGTB Khalsa College organized a webinar on the "Breast Cancer Awareness Session" in collaboration with Epillo Health Systems on 23 October 2021. The NSS Unit, SGTB Khalsa College organized a Donation drive and a visit to a children's shelter home as a part of Project Khwaish in October.

The NSS Unit conducted a Slogan Writing Competition under the banner of "Azadi Ka Amrit Mahotsav" to celebrate the Rashtriya Ekta Diwas. The theme of the competition was "Unity in Diversity".

The NSS Unit conducted an "Article Writing Competition" during the National Heritage Week from 19–25 November 2021. The theme was "Endangered Heritage—Endangered Values". To recognize the differentiated and elongated set of rules governing our country, The NSS Unit organised a webinar titled "Uniqueness of Indian Constitution" on 28 November 2021. To celebrate Children's Day and Gurupurab, the NSS organised an event to distribute food, Chocolates, Masks, Mosquito repellent cream, and Sanitizers among the poor children of the slum. The NSS Unit conducted a live interactive session on "Women's Health" on 16th January, 2022. On the occasion of 73rd Republic Day of India, The NSS Unit conducted an online Reel/Video's Making Competition based on 'Diversity of India'. A webinar titled "How to shape your 20s?" was organized under "Youth Chaupal". To provide basic educational facilities and necessities to every child, The NSS Unit in collaboration with the Srot Foundation was successful in organizing a Donation Drive from 9-11 March 2022. The stuff collected was then distributed amongst children of remote rural schools in Uttarakhand and Himachal Pradesh.

During the annual fest 'Sarahana' in March 2022, an online treasure hunt, IPL auction, and events for visually impaired students were organised.

Library Development

The College has a well-stocked library having nearly 144,391 books on record and regular subscriptions to Indian journals; magazines and daily newspapers. The library is connected with the Delhi University 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 to NLIST (National Library and Information Services Infrastructure for Scholarly Content) which provides access to e-resources to its members. The library has subscribed to 7 journals, 28 Magazines, and 27 newspapers. The college library also subscribes to braille magazines for Visually Impaired Students. The library is computerised and books are bar-coded and made easily accessible through OPAC (Online Public Access Catalogue). The library has a gate security check system with CCTV cameras installed to monitor.

Faculty Strength

143

Financial Allocation and Utilization

Rs. 7010 Lakh

Rs. 5953 Lakh

SRI VENKATESWARA COLLEGE





Brief History

Sri Venkateswara College is a prominent, nationally sought-after co-education and constituent college of the University of Delhi. The desire to share knowledge and make education accessible to all brought together three visionaries, Smt. Durgabai Deshmukh, an eminent educationist, Dr. K. L. Rao, and Dr. C. Anna Rao, determined to craft a dynamic space that would seamlessly blend traditional values and learning with modern outlook and rationale. The dream blossomed into reality in New Delhi in 1961 under the auspices of the Tirumala Tirupati Devasthanams (TTD) Trust of Andhra Pradesh. The foundation stone of the present-day campus in Dhaula Kuan was laid in the same year by eminent Indian philosopher and statesman Dr. Sarvepalli Radhakrishnan. Since then, the Upanishadic principle of "Truth through self-education" has been the guiding principle in all our endeavours. Sri Venkateswara College proudly celebrates 60 years of its existence this year (2021-2022). Over the years, our College has acquired a unique place on the Indian education map. The College offers more than 20 undergraduate degrees in the Humanities, Commerce, and Sciences and 09 postgraduate courses. We take pride in shaping sensitive, balanced global citizens of tomorrow whose heart is cultured in indigenous values and whose mind is sharpened in critical thinking.

Major Activities and Achievements

Sri Venkateswara College continued to excel in teaching and research in the year 2021-22. Although the majority of the year was still engulfed in the pandemic, the faculty and students of the College continued with teaching and research activities. Starting from admissions, and classroom teaching to evaluation, everything was successfully done in online mode and the slow transition to physical mode was also smoothly executed. Even before the full opening of the College in 2022, we were able to conduct an international symposium in the hybrid mode, one of the firsts in the University. The College signed two international and six national-level MoUs. Research has always been the forte of Sri Venkateswara College and this year too faculty members were awarded research projects from international and national funding agencies. Faculty members published their work in the form of research papers, books, and book chapters. SRI VIPRA, a flagship student internship programme was conducted in online mode and gave an opportunity

to undergraduate students to have a feel of research. Concerted and tireless efforts from faculty members, administrative staff, and students brought accolades to the College. It was a matter of pride that the College moved up to 11th position in the National Institute Ranking Framework (NIRF) 2021 Rankings instituted by the Ministry of Education. The College is celebrating its Diamond Jubilee this year, and several activities such as webinars, FDPs, workshops, etc. have been organized.

Honours/Distinctions

Dr. Perumal Jayaraj, Assistant Prof., Department of Zoology, made an oral presentation on 'Analysis of invasive properties of retinoblastoma and uveal melanoma xenograft using chick chorioallantoic membrane assay' and won the Best Oral presentation award in the 2nd Virtual International Conference on Naturopathy, Nanotechnology, Nutraceuticals, and Immunotherapy in Cancer Research - 2021 (ICN3IC-21), organized by Association of Cancer Education and Research (ACER), School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India, in association with Purdue University, USA and sponsored by Tamil Nadu State Council for Science & Technology (TNSCST) and Microbiologist Society, India (MSI) held during 11-12 June 2021.

Palak, Shefali Dahiya, Perumal Jayaraj (Department of Zoology) Nimita, and Seema Sen secured first prize for the best poster presentation entitled 'Chicken chorioallantoic membrane assay as an in vivo model to study ocular malignancies and efficacy of nanoparticles' at International Conference on Nanoparticles: Biomolecules for Human Health (NBHH-2021) held virtually for two days, 27-28 September 2021, organized by Kirori Mal College, University of Delhi.

Students with Distinctions

Navdeep Singh a student of BA Hindi Hons. 2021 batch won 4th Position in Tokyo Paralympics 2020 for Javelin Throw in the F-41 category on 4 Sept. 2021.

Eshaan Duggal, a student of B.Com. V Sem. bagged the 2nd Position in the Men's single, Delhi State Badminton Champ 2021 held from 15-23 Nov. 2021. Eshaan Duggal, a student of B.Com. V Sem. bagged the 1st Position in the Mixed Doubles, Delhi State Badminton Champ 2021 held from 15-23 Nov. 2021.



Dolly Gupta, a student of B.Sc. Physics Hons- III semester bagged the 1st position in the World Dancers international online contest 2021 season 5 on 14 Nov. 2021.

Abhay Periwal of B.Com. admitted to IIM Raipur.

Prabhat Singh of B.Sc. Physics Hons admitted to IIM Kashipur.

Publications

Pasricha, S., Mathur, V., Garg A., Lenka, S., Verma, K., & Agarwal, S. (2021). Molecular mechanisms underlying heavy metal uptake, translocation and tolerance in hyperaccumulators-an analysis: Heavy metal tolerance in hyperaccumulators. *Environmental Challenges*, 4(NA), 100197.

Trivedi, M., Sharma P., Pandey, I. K., Kumar A., Kumar S., & Rath, N.P. (2021). Acid-assisted hydrogenation of CO₂ to methanol using Ru (II) and Rh (III) RAPTA-type catalysts under mild conditions. *Chemical Communications* (Cambridge, England), 57(71), 8941-8944.

Yadav, V., & Misra, R. (2021). A review emphasizing on the utility of heptad repeat sequence as a tool to design pharmacologically safe peptide-based antibiotics. *Biochimie*, 191(NA), 126-139.

Waturuocha, U.W., Krishna, M.S., Malhotra, V., Dixit, N. M., & Saini D. K. (2021). A Low-Prevalence Single-Nucleotide Polymorphism in the Sensor Kinase PhoR in Mycobacterium Tuberculosis Suppresses Its Auto Phosphatase Activity and Reduces Pathogenic Fitness: Implications in Evolutionary Selection. *Frontiers in Microbiology*, 12.

Rangarajan, T. M., & Mathew, B. (2021). Recent Updates on Pyrazoline Derivatives as Promising Candidates for Neuropsychiatric and Neurodegenerative Disorders. *Current Topics in Medicinal Chemistry*, 21(30), 2695–2714.

Hariharan, V. N., Yadav, R., Thakur, C., Singh A., Gopinathan, R., Singh D. P., Sankhe, G., Malhotra, V., Chandra, N., Bhatt, A., & Saini D. K. (2021). Cyclic di-GMP sensing histidine kinase PdtaS controls mycobacterial adaptation to carbon sources. *FASEB Journal: Official Publication of the Federation of American Societies for Experimental Biology*, 35(4).

Trivedi, M., Kumar A., Husain, A., & Rath, N. P. (2021). Copper(I) Complexes Containing PCP Ligand Catalyzed Hydrogenation of Carbon Dioxide to Formate under Ambient Conditions. *Inorganic Chemistry*, 60(7), 4385–4396.

Garg S., Suyesh, R., Das S., Bee, M. A., & Biju S. D. (2021). An integrative approach to infer systematic relationships and define species groups in the shrub

frog genus Raorchestes, with a description of five new species from the Western Ghats, India. *PeerJ*, 9.

Chaudhary, K., Trivedi, M., Masram, D. T., & Rath, N. P. (2021). Transition-metal complexes of group 12 with 1,1'-bis(phosphanly) ferrocene ligands. *Acta Crystallographica. Section C, Structural Chemistry*, 77(5), 240–248.

Kumar S., Kumar A. & Kharbanda, H. (2021). Abundant exact closed-form solutions and solitonic structures for the double-chain deoxyribonucleic acid (DNA) model. *Braz J Phys*, 51(NA), 1043–1068.

Research Projects

DST, Government of India, Indo-Uzbekistan scheme, 2021-2024, Determination of trail-following pheromone and mechanism of the function of the gut microbiome of termites, Rs. 9,17,400/-

DST, Government of India, Indo-Norway scheme, 2020-2023, NANODOS- Synthesis of nano-phosphors and spin-trapping nano-crystals as energy-independent dosimeters for radiotherapy beams, Rs. 32,55,211/-

Department of Biotechnology (DBT), Government of India, 2021-2024, Understanding the role of Ser/Thr protein kinases in the regulation of toxin-antitoxin loci in Mycobacterium tuberculosis, Rs. 1,23,86,270/-

Ministry of Environment, Forestry and Climate Change, Government of India, 2021-2023, Microbial communities in changing climatic regime: Analysis of primary and secondary risk factors, Rs. 43,23,800/-

Cadilla Pharma (Non-Gov), 2021-2023, Pre and Post Lockdown Microbial Monitoring of Delhi roadside plantation: An Initiative for 'One Health', Rs. 2,10,000/-



Seminars Organized

Seminar organised on 'Usage of Space technology in governance and development' on 30-Sept. 2021, with the speaker, Dr. SK. Srivastav, Dean, Academics, IIRS (Dehardun), ISRO.

Seminar organised on 'Union Budget formulation and implementation' on 11 Oct. 2021, with the speaker, Shri. K.S. Samarendranath, former director ministry of Steel and former joint director and faculty member at ISTM and DOPT.

Seminar organised on 'Ecosystem Restoration for Abatement of Climate Change' on 05 June 2021, with the speaker, Prof. Sunil Nautiyal Prof. P. Suresh Kumar Dr. J.S. Chandrashekar, (Prof. & Head, CEENR, Institute of Social & Economic Change, Bangalore) Prof. & Dean, Anna University, Tamilnadu Chairman, Dept. of Env Science, Karnataka State Open University, Mysore.

Seminar organised on 'Research: Need of the hour' on 02 August 2021, with the speaker, Dr. S.K. Varshney, Advisor and Head of International Cooperation Division of the DST.

Seminar organised on 'Recent methodologies towards Using a Consortium of Soil Bacteria to Biodegrade PET Plastic' on 29 Oct. 2021, with the speaker, Prof. Jay Mellies, Prof. of Biology, Reed College, Oregon, United States of America.

Conferences Organized

The 6th Annual International Conference of INSCR on 'Microbes in Sustainable Development' was organized by INSCR in association with the Department of Zoology (DU), Acharya Narendra Dev College (DU), Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), PG Department of Zoology (MU), Maitreyi College (DU), Ramjas College (DU), Sri Venkateswara College (DU), C.M.P. College (AU), SGTB Khalsa College (DU), COCAS (PU) and PhiXgen Pvt. Ltd., Gurugram, on 15 Nov. 2021.

Online Skill enhancement workshop on the topic 'Drawing, Analysis and Computational Skills: Scientific Software for Education, Research and Publication' was organized by the Chemical Society of the College on 07 Oct. 2021.

The Department of Commerce, Sri Venkateswara College, the University of Delhi in association with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi organized a one-week interdisciplinary Faculty Development Programme on 'Basics of Quality Research' on 18-24 Dec. 2021. Fees paid by participants.

International Symposium on 'Recent Methodologies and Advances in Termite Research' with speakers- Dr. Jan Šobotník, Associate Prof., Czech University of Life Sciences, Prague, and Dr. David Sillam Dussès, Associate Prof., Sorbonne Paris North University, France, on 28 Sept. 2021 at Sri Venkateswara College.

One-Day Online Faculty Development Programme on 'Digital Pedagogy and Climate Change Education across Disciplines' was held on 28 August 2021.

Seminar/Conference Presentations

Khushneet Kaur, Kritika Gupta, Shreya Taluja, Seema Sen, and Perumal Jayaraj, Department of Zoology, presented on 'A Bioinformatics Approach to Reveal Core Genes and Molecular Pathways Shared by Cutaneous and Uveal Melanoma' in the conference held on 2022, February 24-25, which was published in the abstract book, 2nd International RMBPD Colloquium- Deciphering Bioregulatory Mechanism in Health and Disease using 'Omics' Approach.

Shreya Taluja, Khushneet Kaur, Kritika Gupta, and Perumal Jayaraj presented on "Assessing the Clinical Relevance of Gastric Cancer Cell Lines as Tumor Models by Identifying Core Genes and miRNAs involved in EMT Metastasis Pathway" in the conference held on 24-25 February 2022, which was published in the abstract book, 2nd International RMBPD. Colloquium- 'Deciphering Bioregulatory Mechanism in Health and Disease using 'Omics' Approach' was organized on 2022, February 24-25.

Aashish Jain, Department of Commerce, presented a paper titled 'Impact of COVID-19 on the Perception and Behaviour of Investors towards Mutual Funds' on 2022, March 12, at the National Conference on Management & Technology organized by Parle Tilak Vidyalaya Association Institute of Management in Association with the University of Mumbai.

Dr. Neha Singhal, Department of Commerce presented a paper titled, 'Social Media Marketing:



Prospects for New Business' at the 1st International Conference on Emerging Issues in Business and Economic Research organized by the Department of Commerce, Rajdhani College, University of Delhi on, 2021, December 17-18.

Dr. Neha Singhal, Department of Commerce presented a paper titled, 'Moderating effects of health consciousness on consumer behaviour towards RTE foods' at the 5th International Conference on Marketing, Strategy, and Policy organized by New Castle University, UK on 2021, September 08.

Dr. Deepti Jain, Department of Mathematics, presented a paper titled 'Graphically Independent Infinite Cactus' at the International Conference of Graphs, Combinatorics and Optimization organized by Bits-Pilani, Dubai Campus on 2022, February 06-08.

Dr. Shahana, Department of Mathematics, presented a paper titled 'Non-polynomial spline solution of one dimensional singularly perturbed parabolic equation at the 4th International Conference on Mathematical Modelling, Applied Analysis and Computation - 2021(ICMMAAC-21) (A virtual conference) organised by Department of Mathematics, Faculty of Science, JECRC University, Jaipur (Raj.) India on 2021, August 05-07.

Dr. Arpita Kaul, Department of Commerce, conducted an engaging session in the National Webinar on 'Dynamism in the Human Market- Today and Tomorrow' organized by the Department of Commerce, Symbiosis, College of Arts held on 2022, March 29-30.

Dr. Sindhumani Bag, Department of Commerce, presented a paper titled 'Digital Transformation of Financial Services in Covid 19: Implications Market Structure and Public Policy' at the Multidisciplinary National Conference on Digital Transformation in Education during COVID: Prospects and Challenges held at SD(PG) College Panipat on 2022, February 23.

Dr. Deepti Jain, Department of Mathematics, presented a paper titled 'Graphically Independent Infinite Cactus' at the International Conference of Graphs, Combinatorics and Optimization organized by Bits-Pilani, Dubai Campus on 2022, February 06-08.

Mohini Yadav, Department of Commerce, presented a paper titled, 'A Study of Efficient Management of Pandemic by Women Leader' at the International Conference on Literature, Language, Translation & Gender Studies -2021 on 2021, July 16-17, organized by REd Talks Daily International.

National/International MoUs Signed

The College signed a Memorandum of Understanding with Czech University of Life Sciences Prague, Czech Republic on 10 July 2021 to establish scientific collaboration through joint research activities, academic exchanges, and research internships.

The College signed a Memorandum of Understanding with the Institute of Bi-organic Chemistry of the Academy of Sciences, Tashkent, Uzbekistan on 3 December 2021 to establish collaboration through joint research activities, academic exchanges, and research internships.

The College signed a Memorandum of Understanding with P.E.S.'s Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 04 January 2022 to establish scientific collaboration through research, capacity building, and academic cooperation.

The College signed a Memorandum of Understanding with the National Productivity Council (NPL), DPIIT, Ministry of Commerce and Industry, Govt. of India on 11 August 2021 for strengthening capacity-building skills, education, and employment opportunities.

The College signed a Memorandum of Understanding with the Translational Health Science and Technology Institute on 30 Sept. 2021 for encouraging students to take Science and Technology as a career option.

The College signed a Memorandum of Understanding with K. J. Somaiya College of Science and Commerce, Mumbai on 18 Jan. 2022 to establish collaboration through academics, research, and extension activities.

The College signed a Memorandum of Understanding with the National Institute of Immunology on 31 March 2022 for encouraging students to take Science and Technology as a career option.

The College signed a Memorandum of Understanding with Green-O-Tech India on 8 Feb. 2022 for Waste Paper Recycling.

Other Inter-Institutional Collaborations



Student-centric project in collaboration with the Department of Ocular Pathology, Dr. R. P. Centre, AIIMS, New Delhi (11 Feb. 2021 – 02 Aug. 2021) One Week Interdisciplinary Online Faculty Development Programme on ‘Panel Data Analysis Using Stata’ held from 11-16 Oct. 2021.

Add-on Courses:

The College offered the following Add-on Courses/Certificate Courses:
 Add on Course on Food Science and Technology: Farm to Fork from 11 Aug. 2021 to 9 Nov. 2021.
 Add on Course on Data Analysis Using Python from 11 Sept. 2021 to 24 Oct. 2021.
 Add on Course on Digital Marketing from 29 Jan. 2022 to 6 March 2022.
 Add on Course on Climate Change from 5 Feb. 2022 to 9 April 2022.
 Certificate Course in the German Language from Nov. 2021 to June 2022.
 Certificate Course in the Spanish Language from Nov. 2021 to June. 2022.
 Certificate Course in the French Language from Nov. 2021 to June 2022.
 Diploma in the German Language from Nov. 2021 to June 2022.
 Diploma in the Spanish Language from Nov. 2021 to June 2022.
 Diploma in the French Language from Nov. 2021 to June. 2022.

Advance Diploma Course in the French Language from Nov. 2021 to June 2022.

The Placement Details

199

Number of Companies visited for campus recruitment

99

Library Development

Total no. of new magazines / periodicals subscribed to (physical form) 54
 No. of national journals subscribed to in hard copy (physical form) 23
 No. of national/international journals subscribed to E-copy / digital form: ~43286 (DULS) + 6000 Database and NLIST (in Total)

Faculty Strength

Permanent: 79
 Adhoc: 132

Financial Allocation and Utilization

Rs.72,60,00,000/-
 Rs. 72,59,85,242/-

ST. STEPHEN'S COLLEGE

Brief History

St. Stephen’s College was founded on 1 February 1881 by the Cambridge Mission to Delhi in conjunction with the Society for the Propagation of the Gospel. The Cambridge Mission comprised a number of Dons from various colleges at Cambridge University, and one of them, the (later Canon) Samuel Scott Allnutt was the founder and the first Principal of the College. In the early years, college occupied rented premises in two mansions built in the old Mughal style in the bylanes of Chandni Chowk, opposite the present Central Bank Building. The College was housed into its own buildings designed by Col (later Sir) Swinton Jacob, Chief Engineer of Jaipur State. These buildings stand on both sides of the road in Kashmere Gate, close to the historic St. James Church.

On 1 October 1941, the college occupied its present home in the Delhi University Enclave.

Major Activities and Achievements

Admissions were conducted online. Offline classes began and exams were conducted without a break and as per the DU Calendar. The three-year old NCC contingent continued to win top accolades. College participated in the NIRF Ranking process.

The College continued its online Certificate programmes under the Centre for Advanced Studies. The St. Stephen’s *Young Leaders, Neighbourhood-First Fellowship* programme, supported by the Ministry of External Affairs, Government of India.



Lt Dr. Rakhi Thareja, In-charge of the NCC unit of the college was appointed as an overall modulator of the National Kargil Diwas that witnessed a participation of around 1500 cadets nationwide. College organized the national event for paying homage to martyrs on 13 August 2021.

Honours/Distinctions

Dr. Karen Gabriel was awarded with one-year WSF-CES Digital Fellowship from University of Columbia and was appointed as an Executive Member of RINGS - The International Research Association of Institutions of Advanced Gender.

Mr. Piyush Bansal delivered an online talk on the topic Legacy of Srinivasa Ramanujan in Kalka Public School, Alaknanda on 22 December 2021

Dr. Pankaj Kumar Mishra, Associate Prof., Department of Sanskrit was awarded with Education Excellence Award, an Award for contribution to Education Community by the Indian School Awards on 23 October 2021. He was also conferred with a Global Faculty Award 2021, for accomplishing excellence in educational services via occupational competence and work in the field of higher education by the AKS Education Awards on 15 January 2022.

Students with Distinction

Akumjung I Pongen was awarded the Rhodes Scholarship in 2021.

In the year 2021-22, the Post Graduate Students came up with a 99% pass result. 38 students were admitted and 37 passed.

Shaurya Sareen of III year awarded with a silver medal in the Junior World Championships in Lima Peru and further donned the Indian Tri Colour of the World Championships in Suhl, Germany where he narrowly missed a podium finish.

In the UG category college secured a pass percentage of 95.37.

Rhea Chandha of B.Sc. Physical Science awarded with. M. Makhan Lal Gold Medal.

Urna Chakrabarty of M. A. Philosophy was awarded with Dr. S. Radhakrishnan Medal and a Indian Philosophical Congress Medal for M.A.

Feba Ann Mathew of M.Sc. Chemistry was awarded with Prof. K. N. Johri Memorial Gold Medal.

Publications

Ahmed, K., Pal, S., Mohan, R. (2021). A review of the tropical approach in cryptography *Cryptologia*. 1-25. DOI: 10.1080/01611194.2021.1994486.

Aggarwal, M., Gupta, L. (2022). Uniform Split Continuity. *Journal of Mathematical Analysis and Applications*. 511: 126099.

Bansal, A., Bansal, P. (2022) Test Fit CUET (UG), Sultan Chand & Sons (P) Ltd., Delhi, India. ISBN: 978-93-9085-195-9.

Lochab, A., Thareja, R., Gadre, S.D., Saxena, R. (2021). Potential protein and enzyme targets for in-silico development and repurposing of drugs against coronaviruses. *Chemistry Select*.

Bisht, Y., Nain, A. K. (2021). Solute-Solute and Solute-Solvent Interactions of L-Methionine, L-Threonine and L-Histidine in Aqueous-Carbohydrate Solutions using Kirkwood-Buff Theory: A Theoretical Study. *Organic & Medicinal Chemistry*. 11(2):555806, 001-0011 ISSN: 2474-7610

Dr. Akshay Rana published a book as a contributing author titled 'Introduction to Special Relativity: An Indian Adaptation' by Wiley publication.

Goswami, A., Prasad, A. K., Maity, J., Khaneja, N. (2022). Synthesis and applications of bicyclic sugar modified locked nucleic acids: A review. *Nucleosides, Nucleotides and Nucleic Acids*. 41, 5-6: 503-529.

Honcharenko, D., Cristina, Rocha, S.J., Lundin, K. E., Maity, J., Milton, S., Tedebark, U., Murlota, M., Honcharenko, M., Slaitas, A., Smith, C. E., Zain, R., Stromberg, R. (2022). 2'-O-(N-(Aminoethyl) carbamoyl) methyl modification allows for lower phosphorothioate content in splice-switching oligonucleotides with retained activity. *Nucleic Acid Therapeutics*. 33(3): 221-233.

Kumar R., Maity, J., Mathur, D., Verma, A., Rana, N., Kumar M., Kumar S., Prasad, A. K. (2022). Green synthesis of triazolo-nucleoside conjugates via azide-alkyne C-N bond formation. *Physical Sciences Review*. doi.org/10.1515/psr-2021-0090.



Deo, A. P., (2021). Kings, Spirits and Memory in Central India: Enchanting the State, Routledge, London.
Journals

Dr. Naina Dayal - Reviewer for the journal *Religions of South Asia*.

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board – One - Prof. John Varghese serves on the Editorial Board of *The Bede Athaneum*

Seminars Organized

Department of Urdu organised a national Seminar on the topic “Urdu Shayri Mein Ishq Ki Emai Kaifiyat” on 5 March 2022 in College premises.

Social Service League hosted a Mental Health workshop, themed on Stress Management in collaboration with IQAC, in an online mode via Google meet. Speaker was Dr. Garima Gupta, Psychology specialist from The Hopes Psychiatric Hospital in Faridabad.

Economics Society of St. Stephen’s College hosted Dr. Eswaran Somanathan for the Ranjan Ray Memorial Lecture 2022. It was the society’s first offline lecture since March 2020. He spoke on the topic “Economics of Climate Change.”

National Economics Festival is the flagship event of The Economics Society and was filled with a wide range of events beginning with the Opening Lecture by Dr. Bradford DeLong, NC Ray Paper presentation, La Case De Papel, Keynote lecture by Dr. Raghuram Rajan, Prometheus, Ecozombics and ending with the Closing lecture by Dr. Debraj Ray. The festival caught the attention of 1200+ students across the country and turned out to be a huge success.

Seminar/Conference Presentations

Dr. Karen Gabriel was invited for his Keynote address: “Love and Desire in Literature” Exploring Love and Desire in Literature at Hansraj College on 2021, April 09.

Dr. Akshay Rana, Assistant Prof. invited as a Resource Person and organizer of the Three weeks “e-crash course on Python and Latex” organized by Department of Computer Science and Center of Theoretical Physics, Department of Physics, St. Stephen’s College from 2021, December 11-31.

Dr. Rakhi Thareja, Assistant Prof. in the Department of Chemistry, delivered two Invited lectures. First at SDP organized by Kirori Mal College under DBT, Star College Scheme on 11 January 2022 and Spoken Tutorials organized by IIT-Bombay on 2022, January 14.

Dr. Sudipto Basu presented a paper at an international conference on ‘Urbanization in Bengal and Beyond’ organized by the Department of History, Bankura University, West Bengal, India from the 2021, November 24-27.

Dr. Malay Neerav presented a paper entitled, ‘Adapting to the Paradaigm Shift in Teaching-learning Process: The Way Ahead’ at an international conference on ‘Urbanization in Bengal and Beyond’ organized by the Department of History, Bankura University, West Bengal, India from the 2021, November 24-27.

Dr. Malay Neerav delivered a Lecture organized by the History Society of Satyawati College. Title of Lecture: 'The paradox of Cricket in India: A colonial hangover as a symbol of unity'.

Dr. Aditya Pratap Deo delivered a Bool Talk (Online) organized by History Society, St Stephen’s College, Delhi on 13 November 2022 and second Book Talk (Online) at UCLA, Centre for India and South Asia, Los Angeles on 2022, February 07.

Dr. Naina Dayal was invited as a Resource Person to deliver a talk on ‘When a man raises the flag of *dhamma* but conceals his sins: Notes on fake ascetics in the Jātakas’ and also presented a paper at an international conference (‘Of Thieves and *Therīs*, Hunters and Housewives’) in honour of Prof. Kumkum Roy which was organized by the History Society of Miranda House, University of Delhi on, 2021, November 10.

National/International MoUs Signed

01: College signed an MoU with the American Institute of Indian Studies, New Delhi (AIIS).

Students under Exchange Programme

Two Bhutanese students admitted in College

Placement Details

Number of students placed = 90

Percentage of students who got placed = 20.45%

No. of companies that visited Campus for placement = 73

Extension and Outreach Activities



Young Leaders Neighbourhood-First Fellowship programme supported by the Ministry of External Affairs launched in March 2022.

Library Development

Library provided support to students throughout COVID period.

Faculty Strength

Permanent: 55

Ad-hoc: 37

Financial Allocation and Utilization

As per rules

SWAMI SHRADDHANAND COLLEGE

Brief History

Swami Sharddhanand College, a constituent college of the University of Delhi, is run under the trusteeship of Delhi Govt. It is a co-educational institution and imparts instructions in various subjects at both undergraduate and post-graduate levels. Situated in the sylvan ambience of North Delhi, the College has completed 54 years of its existence. From the humble beginning in the Gandhi Ashram building at Narela, the College is now one of the premier institutions of the University. It is equipped with qualified teaching staff, specialized laboratories and adequate library facilities.

The College has extensive playgrounds, which provide an excellent opportunity to budding sportsmen and athletes to participate in various games and sports and to improve their skills and capabilities. Scholarship's and freeships are given to deserving students. Every year a number of prizes are awarded to students on their meritorious achievements in academic and extra-curricular activities.

Students' societies/associations play a vital role in improving the academic environs of the College. For each subject, there is a society to stimulate the interests of the students in the subject and establish its interlinking with the society at large. The societies/associations sponsor lectures, seminars, exhibitions etc., and undertake programmes and activities to make subjectss more interesting and relevant for societal needs.

Major Activities and Achievements

Department of Botany organized a thirty hours Add-on Course on "Mushroom Cultivation" in online-offline hybrid mode. Several experts, scientists and

Prof.s imparted knowledge on cultivation of mushrooms. The Department also organized a field trip on "Mushroom Cultivation Training Facility" in Bakoli and "Urban Farms Co. –Mechanised Mushroom Cultivation Centre" in Palla on 23 March 2022.

Department of Commerce organized various academic activities such as a seminar on "Covid 19 Economic Awareness: Challenges and Opportunities", three days' Workshop on "Financial Literacy" and a seminar on "Indian Knowledge System and NEP 2020".

Department of English conducted an education excursion on 5 April 2022, at "Pandit Lakhmi Chand State University of Performing and Visual Arts" Rohtak, Haryana. Forty-three students and ten faculty members participated in the said excursion. Students were introduced to the basic tenets of Film Studies to acquiesce them to nuances of Film Studies for their skill development.

Department of Hindi organized various programmes like a weeklong Hindi Saptah, India@75 Chunautiyan aur Sambhavnayein etc. and various competition for students in the session 2021-2022.

A tree plantation drive was organized by Department of Physics. Principal, Prof. Parveen Garg himself took a great initiative to plant trees on the college campus. A total of about 50 trees were planted in the periphery of the College. The message of 'Plant Trees and Save Earth' and 'Keep our Earth Green and Clean' was conveyed in a distinctive way.

Honours/Distinctions



Dr. Madhu Monga was awarded with Ph. D. from Banasthali Vidyapeeth, Banasthali, Rajasthan in 2022 on the topic “Impact of Financial Inclusion on Socio-economic Development of Women”, Supervised by Dr. Peeyush Bangur and Dr. Richa Chauhan.

Dr. Deepti Kohli was awarded with Ph. D. in Economics from the Centre for International Trade and Development, School of International Studies, Jawaharlal Nehru University in August 2021 on the topic “Electoral Competition, Lobby Formation and Equilibrium Policies: A Theoretical and Empirical Investigation.”

Dr. Meera Sharma co-guided one Ph. D. scholar to who was awarded degree on 18 August 2021.

Prof. Kuhu Sharma Chanana successfully completed Nehru Memorial Museum and Library Fellowship on the topic, “Gender and Sexual Minorities and Non-Normative Geographies as Seen through the Lens of the Contemporary Indian English Literature”.

Dr. L.B. Swarnkar supervised Ph. D. work of Mr. Ram Sevak Jatav, who could successfully submit his Ph.D. thesis entitled “Neo-Buddhism: Its Contribution to Emergence a New Society in India”.

Prof. Vinod Nautiyal successfully completed “International Astronomical Search Collaboration” which was supported by NASA and Department of Science and Technology, India.

Dr. Smita was awarded with NESAs Eminent Scientists of the Year Award 2021 from National Environmental Science Academy (NESAs), New Delhi.

Students with Distinctions

Anuj Rawat, Lalit Yadav, Yash Dhull and Hritik Shokeen were selected to play in the IPL team by their respective franchise in the recently concluded auction.

Seven players (Lalit Yadav, Anuj Rawat, Yash Dhull, Hritik Shokeen, Priyansh Arya, Lakshay Thareja and Dev Lakra) were selected to play for the Delhi's Ranji Trophy team.

Himanshu Rana, Shivam Chauhan, Youraj Singh and Piyush Dahiya selected to represent Haryana in the upcoming Ranji Trophy.

Publications

Prathi, N. R., Rani, C. V. D., Balachandran, S. M., Prakasam, V., Mohan, Y. C., Nagalakshmi, S., Srivastava S. K., Sundaram, R. M., Mangrauthia. S. K. (2021). Genome-Wide Expression Profiling of Small RNAs in Indian Strain of *Hizoctoniasolani* AG1-1A Reveals Differential Regulation of miRNAs during Pathogenesis and Crosstalk of Gene Regulation. *Journal of Fungi*. 7(7): 56.

Malik, S., Babbar, S., Chaudhary, M., Sharma S., Raina, S. N., Babbar, S. B. (2022) Authentication and Deciphering Interrelationships of *Hippophae* Species using DNA Barcodes. *Nucleus*. <https://doi.org/10.1007/s13237-021-00382-z>.

Kharkwal, M., Tyagi, S. B. (2022). Concepts of Inorganic Chemistry. New Delhi: Manakin Press. (ISBN: 978-93-92062-09-4).

Sobti, R., Jenefa, L., Kadyan, J. S., Vadavadagi, P. (2021) An Empirical Study on the Consumer Buying Behaviour towards Electronic Goods. *International Research Journal of Management Sociology and Humanities*. 12(10) 309-317

Kumar S., Kumar A., Kumar V., Attri, K. (2021). India's Trade Relation with China and USA: Paradigm Shift Post Liberalization. *Empirical Economics Letters* (EEL). 20(Special Issue 1): 113-123.

Kohli, D. (2022). Examining the Impact of Electoral Competition and Endogenous Lobby Formation on Equilibrium Policy Platforms. *The B.E. Journal of Theoretical Economics*. 22 (1): 153-198.

Kapoor, R. (2021). Women in Rigveda- Lesson Drawn for Modern Women. *International Journal of Humanities and Social Science Invention (IJHSSI)*. 10(4): 8-12.

Singh J., (2021) The Covid-19 3rd Wave Predictions: Fact and Fantasy: A Critical Analysis. *Shodh Drishti*. 12(11.1): 155-158.

Research Projects

Project entitled, ‘Comprehensive EIA & EMP Studies for the Shivansamudhra Run of the River Project 345 MW Across Cauvery River, Chamaraj Nagar District, Karnataka Cat-A’, for a period of three years funded by Department of Karnataka Power Corporation Ltd., Bangalore, in the year 2019.

Project entitled, 'Comprehensive EIA & EMP Studies for the Gundia Hydro Power Project- 200 MW Across Gundia River, Hassan District, Karnataka Cat-A', for a period of three years funded by Department of Karnataka Power Corporation Ltd., Bangalore, 2019.

Project entitled, 'Rapid Environment and Social Impact Assessment - Resia and Environmental Management Plan – ESMP for 6.00MW Behave Small Hydro Project', for a period of three years funded by M/S Karthik Energy Resource Pvt. Ltd. – KERPL, 2020. Project entitled, 'Environment and Social Impact Assessment – ESIA Study of the Purposed Turavanuru Wind Power Project – 150MW', for a period of three years funded by Guttaseema.

Wind Energy Company Pvt. Ltd. Bangalore, 2020

Project entitled, 'Environment and Social Impact Assessment - ESIA and Environmental and Social Management Plan – ESMP for Shunmuka Subramanya Mini Hydel Scheme - 10.00MW Behave Small Hydro Project', for a period of three years funded by M/S Perla Hydro Power Pvt. Ltd. – PHPP, 2020.

Project entitled, 'Cultural Impeccability of Tribals of Himachal Pradesh since Vedic Period with Reference to their Floras', funded by Indian Council of Social Science Research (ICSSR), Delhi. (Ongoing project), 2022.

Conferences Organized

Department of Computer Science organized a thirty hours online Add-on Course on "ICT" for students, from 20 February 2022 to 27 March 2022.

Department of Mathematics organised an online workshop on "Vedic Mathematics" from 6 to 11 January 2022.

Several webinars were hosted by the Department of Microbiology such as talks on "Food Safety in Covid-19", "Own your ideas: Intellectual Property Rights" "Unlocking the Secrets of Healthy Ageing" "Hypertension: How to Tame a Silent Killer" and "COVID-19, A Cardiologist's Perspective" to name the few.

Seminar Presentations

Dr. Usha Singh Gaharwar was invited as a speaker in a webinar entitled, 'International Youth Day' on "Transforming Food System: Youth Innovation for

Human and Planetary Health" organised by JNU ENVIS Resource Partner on Geodiversity & Impact on Environment, SES, Jawaharlal Nehru University, New Delhi & Ministry of Environmental, Forest & climate change, Govt. of India New Delhi on 12 August 2021.

Dr. Vibhuti Singh presented a paper entitled, 'CYC'd Out: CYCLOIDEA Paralogs Exhibit Redundant Function in Establishing Dorsal Petal Identity' in *Mimulus Lewisii* in a virtual Conference organised by Botanical Society of America on 18 July 2021.

Dr. Saraswati Kanodia presented a paper entitled, 'A Green Method for the Selective Bromination of 1,4-Quinones using Ammonium Bromide/ Hydrogen Peroxide in Glacial Acetic Acid' in an online International Conference organized by Department of Chemistry, Hansraj College, University of Delhi on 30 October 2021.

Dr. Chhagan Lal presented a paper entitled, 'Soil Water Conservation in Khadin in Western Rajasthan', in the training of Kishan and Forest officers organized by Van Vigyan Kendra Jaisalmer in collaboration with Arid Forest Research Institute Jodhpur, ICFRE on 6 March 2022.

Dr. D R Jalwani presented a paper entitled, 'An Analysis of Foreign Direct Investment its Inflow Outflow and Projection in India', in an International Conference on Innovation in Engineering, Management and Science ICEMS-2022 (Online) organized by Vasireddy Venkatadri Institute of Technology (VVIT), Guntur, Andhra Pradesh and Global Conference Hub, Coimbatore, Tamil Nadu on 29 and 30 January 2022.

Dr. Jagbir Singh Kadyan presented a paper entitled, 'Nurturing First Generation Entrepreneurs through Entrepreneurship Development Programs', in 2nd International Sustainable Co-operative and Social Entrepreneurship Conference (ISCSE) organized by Garden City University, Bangalore, India on 28 and 29 October 2021.

Ms. Gayatri Meena presented a paper entitled, 'Cross-Listing Effects on Indian Corporate Sector' in International Conference on Standardizing Management Practices: Challenges & Opportunities organized by Faculty of Management Studies, Mohanlal Sukhadia University, Udaipur from 12 to 14 August 2021.



Dr. Anoop Kumar presented a paper entitled, 'E-Consumer: Awareness of their Rights and Responsibilities Mentioned in Consumer Protection Act 2019 and 2020 Act' in an International Conference on Social Work, Science and Technology organised by Shrimathi Devkunvar National Bhatt Vaishnav College for Women Chennai, India in Collaboration with Global Conference Hub, Coimbatore on 29 and 30 July 2021.

Ms. Akanksha Gupta, presented a paper entitled, 'E-governance in India – Challenges and Scope' in the International Conference on "Future Vision for India at 100 in 2047" organized by Daly College Business School, Indore in association with the Research Foundation of India & RFI-CARE, on 28 and 29 January 2022.

Dr. Archana Ayyagari presented a paper entitled, 'Bioremediation Approach for Management of Heavy Metals' at an International Conference on Contributions of Biological Sciences for Sustainable Environment organised by the Wilson College, Mumbai from 25 and 26 February 2022.

Library Development

With a rich collection of more than 112000 books and about 27 newspapers and 70 national and international periodicals which provides the latest information and knowledge. About 3000 books are added in every year. The library also provides assistive instruments to the VH students. More than 400 users visit daily for different services.

Library Services:

Users Guidance
Bibliographies/Indexes
OPAC based search
Reference/Referral Service

E-resources

Plagiarism check

Access of E-Services: The library of the college is connected to the NLIST consortium of INFLIBNET which provides wide access as more than 5000 e-journals and about 1 lakh e-books and also DELNET services are available in the library.

Extension and Outreach Activities

In the spirit of drawing out the best of selfless service from the student volunteers, the NSS unit of Swami Shraddhanand College conducted a host of activities under the guidance of Principal Prof. Praveen Garg and Programme Officer J K Pandey,. In the 2021-22 session, the NSS unit conducted a host of activities that include Volunteer Orientation, Webinar on POCSO awareness, Fit India Run 2.0, three Cleanliness Drives, Poster Making on Air Force Day, Children's Day, Road Safety among others, Webinar on Vegan Outreach, Preamble Reading, Essay Writing competition, Local Area Survey, Celebration of National Youth Day, Wetland Day, Plantation drives on the banks of river Yamuna and in the Old Campus of the College, Career Counseling in Collaboration with NYKS, North Delhi, Blood Donation Camp in collaboration with AIIMS, Delhi, among other similar activities. A four days' field trip of select NSS volunteers covering SHGs of Nainital district was also among the notable activities.

In the 2020-21 session, activities of the NSS unit around various awareness drives including POCSO Act, Yoga, Health, Nutrition, Tuberculosis, AIDS, Waste Recycling, Pollution, Cooking, Alcoholism, Vaccines, among others, were conducted. Training Sessions on Yoga, Photography etc. were conducted. Important days were commemorated with Poster Making, Poems Recitation, Group Discussions and activities in the field.

VIVEKANANDA COLLEGE



Brief History

Vivekananda College is a dynamic institution dedicated to providing quality education and a sense of empowerment to young women. The College was set up in 1970 in Gandhi Nagar by the Delhi Administration (now the government of NCT of Delhi) out of grants from UGC and Delhi Administration with a specific objective of providing opportunities for higher education to women in the Trans-Yamuna area. The foundation stone of the College building was laid on 26 October 1976 by Prof. S. Nurul Hassan and the building was dedicated by Swami Ranganathananda of the Ramakrishna Mission in 1979. The College started in a school building with approximately 300 students admitted to B.A. (Pass). Since then, the College has witnessed a meteoric rise in the number of students seeking admission to the different courses offered by it. Today, the College has around 2265 students and offers many disciplines and honours courses at the undergraduate level, two postgraduate courses – Hindi and Sanskrit, three add-on courses (Hindi Patrakarita, Translation, and English Proficiency), one certificate course, and one diploma course (German Language).

The College community works in synergy to promote an environment of effective teaching and learning. There exist myriad opportunities for the staff and students to explore new horizons. We embrace innovation and promote interface with contemporary practices. Besides, the College takes initiatives to strengthen a collective sense of belonging, and unity and uplift everybody's spirit. We strive to create an inclusive learning environment

and contribute to mindful initiatives for the greater good of society.

Major Activities and Achievements

The College collaborated with the Government Model College, University of Dibrugarh, Deithor, Assam under the Vidya Vistar (V2) Scheme of the University of Delhi. We have launched the 'Lok Virasat' Project to collect and preserve folk songs of Assam. In addition, MoUs were signed with the University of Buraimi, Sultanate of Oman. Also, with Project 'HUM' initiated by Social Outreach and Community Development Committee, the College collaborated with people of nearby Jhilmil Colony, in the area of education as well as undertook civic initiatives and worked with organizations like Delhi State Legal Services Authority (DSLAs) and Slum Swaraj Foundation (SSF). Moreover, we celebrated 'Azadi ka Amrut Mohatsav' with week-long festivities and in January 2022, the College organized a TEDx talk titled, 'A Spark Within'. The College has also enhanced state-of-the-art infrastructure with an astroturf for hockey and a synthetic track (200 mts.). We have recently created new labs for Home Science and Computers. Additionally, RFID technology has been initiated in the library.

Honours/Distinctions

Dr. Sukhneet Suri received the 'Best Teacher Award' from the Directorate of Higher Education, GNCTD, and the Government of India in March 2022. This was the second time that she won this prestigious award. Dr. Sukhneet Suri received the 'Best Paper Award' (Third position) in an International Virtual



Conference on “Recent Trends and Innovations in Microbiology” held on 15 July 2021.

Dr. Shahnaz received ‘Dr. Sarvepalli Radhakrishnan National Best Faculty Award’ on the occasion of National Teacher’s Day on 5 September 2021 in appreciation of the dedication and commitment to Teaching and Research in History from the Centre for Professional Advancement Continuous Education (CPACE).

Dr. Shahnaz received the ‘International Academic and Research Excellence Award’ on the occasion of World Teacher’s Day on 5 October 2021 by the International Multi-Disciplinary Research Foundation in recognition of her consistently superior performance in her respective discipline (History).

Students with Distinctions

S.No.	Name of Students	of Class
1	Neha Gupta,	B.Sc (Hons) Home Science
2	Aarchi Arora	B.sc (Hons) Home Science
3	Mansi Raj	B.A. (Hons) Sanskrit
4	Dhruvika Pandey,	B.A. (Hons) History
5	Anshi Saxena	B.A. (Prog)

Publications

Sharad, S. (2021). “Affective Interpersonal Touch in Close Relationships: A Cross-Cultural Perspective. *Psychology Personality and Social Psychology Bulletin*, ISSN: 552-7433

Sharad, S., and Verma, S.K. (2021). “Stigma and Discrimination During COVID-19 Pandemic. *Psychology Frontiers in Public Health*, ISSN 22962565.

Verma, S.K., (2021). “Theoretical Mapping of Suicidal Risk Factors During the COVID-19 Pandemic: A Mini-Review.”. *Frontiers in Psychiatry*, ISSN 1664-0640.

Nagpal, R. (2021). “Cosmological aspects of (R, T) Gravity in a Simple Model with a Parametrization of q. *European Physical Journal Plus*.

Jain, S. (2021). “Boundedness of Dunkl-Hausdorff Operator in Lebesgue Spaces.” *Rocky Mountain Journal of Mathematics*, 51(6).

Chandra, S. (2021). “Investigating Day and Night-time Variability of Major Water-Soluble Inorganic Species and Role of Reactive Nitrogen Species in PM2.5 and PM10 - A Two Year Study.” *Current World Environment: An International Research Journal of Environmental Science*, Special issue (1.03).

Paliwal, A. (2021). “Book Review of Reading Dalit: Essays on Literary Representations.”. *Asiatic Journal*.

Nandrajog, H., and Suri, S. eds. (2021). The Saga of Food, Reflections on Technology and Culture. International Book House ISBN: 978-93-83320-73-8.

Suri, S. (2021). “Polar Compounds in Frying Oils: A Review.”. *Journal of Applied Ecology and Environment Sciences*, ISSN 2328-3912.

Sondhi, V. (2021). “Experiences of Mental Health Practitioners and Clients during COVID Pandemic in India.”. *The International Journal of Indian Psychology*, ISSN 2349-3429.

Patents Filed/Granted

01 (National) and Smart Mesh Filters for Open Drains by Ms. Vishakha Jain, Mr. Arihant Jain, and Ms. Rachna Megh

Seminars Organized

A seminar titled, ‘UPSC Aspirants’ was organised on 11 Sept. 2021, with the speaker, Umesh Kumar Ram, Deputy Director, IES.

A seminar titled, ‘Water - The Blue Lifeline’ was organised on 28 Sept. 2022, with the speaker, Meenu Wadhwa, Co-ordinator of the Budding Scientist Club. A seminar titled, ‘Analysing the Status of Eco Taxation in India’ was organised on 30 March 2022, with the speaker, Dr. Rajat Verma, Associate Fellow, Energy Natural Resource and Sustainability, Centre for Social & Economic Progress.

A seminar titled, ‘Child Sexual Abuse: Myths and Realities’ was organised on 19 Jan. 2022, with the speaker, Meetal Devgan, Clinical Psychologist.

A seminar titled, ‘Gandhi-Ambedkar Debate: Two Methods of Annihilation of Caste’ was organised on 14 Dec. 2021, with the speaker, Dr. Nishikant Kolge, Associate Prof., Centre for the Study of Developing Societies (CSDS).



Conferences Organized

“Developing Research Skills” was organized by the Internal Quality Assurance Cell (IQAC) in collaboration with the University of Buraimi, Oman on 25 Nov. 2021.

“Vigilance, Corruption, and Transparency in Governance – a Re-assessment” in collaboration with Daulat Ram College, Acharya Narendra Dev College, and Central Vigilance Commission, Govt. of India on 01 Nov. 2021.

“Gender and Visual Culture” on 3rd and 4th March 2022 on a virtual platform for B.A., M.A., M.Phil., and Ph.D. scholars on 03 March 2022.

“Plagiarism: Issues and Challenges” was organized by the College Library and IQAC, in collaboration with the Indian Library Association (ILA), on 17 Dec. 2021. A webinar held on 15 Feb. 2022 on “Cyber Safety and Literacy” focussed on the threats associated with the cyber world and how to tackle the same (SSF).

Seminar/Conference Presentations

Dr. Chaandreyi Mukherjee presented on “Interrogating Queerness in John Ajvide Lindqvist’s ‘Border’” at the National Conference organised by Dyal Singh College Evening on 2021, December 15-16.

Dr. Hina Nandrajog presented on “Kulwant Singh Virk Diyan Kahaaniyan da Angrezi Anuvaad: Anubhav Atey Samasyaavaan” in Kulwant Singh Virk Janam-Shatabdi Antar-Rashtri Webinar, organized by Punjabi Department, Punjabi University in collaboration with Vibhagi Sahit Sabha, on 2021, July 13-17.

Dr. Hina Nandrajog presented on “Punjabi Tadka in English Writing: Mulk Raj Anand’s Style,” Indian Writing in English with special reference to Mulk Raj Anand and Khushwant Singh at the National Webinar organised by Gujranwala Guru Nanak Khalsa College, Ludhiana on 2021, August 10.

Dr. Hina Nandrajog presented on “Unity in Diversity: Catchphrase or Creed?” in a webinar organized by the College of Vocational Studies, University of Delhi, on 2021, September 17.

Dr. Isha Gupta, presented on “Latent Semantic Analysis Based Real-World Application of Topic

Modeling: A Review Study”, at the International Conference on Artificial Intelligence and Smart Energy-2022.

Dr. Neeta Mathur was the resource person in the National Webinar on ‘Raga Aur Ritu Sambandh’ organized by Daulat Ram College on 2021, September 23.

Dr. Sukhneet Suri presented “Shelf life of Value-Added Preserves from Pomace” at the International Virtual Conference on Recent Trends and Innovations in Microbiology, organized by the Department of Microbiology, MS University, Jaipur, Rajasthan on 2021, July 15.

Dr. Vedanidhi presented “Sanatan Dharm ki Drishtikon me Jivan ka Lakshya”, at a three-day National Seminar organized by Sanskrit Academy, Hyderabad in December 2021.

Dr. Vedanidhi presented “Vaishvik Jagat me Sanskrit ka Adhyayan”, at the International Conference on “Sanskrit Across the World” in March 2022.

National/International MoUs Signed

An MoU was signed with Mahatma Hansraj Faculty Development Centre, Hansraj College, the University of Delhi for the duration of 26-31 July 2021.

An MoU was signed with Mahatma Hansraj Faculty Development Centre, Hansraj College, the University of Delhi for the duration of 7-13 June 2021.

An MoU with the University of Buraimi, Oman for the academic partnership for the duration of 21 September 2021 to 21 September 2022.

An MOU with the Institute of Industrial Development was signed on 23 September 2021 as a step toward partial fulfillment of the objectives of the Vidya Vistar Scheme.

An MoU with Government Model College, Deithor, Assam of Dibrugarh University was signed on 22 October 2021 under the Vidya Vistar Scheme with Indian/Foreign Companies/Industry.

Other Inter-Institutional Collaboration

Vivekananda College in collaboration with Government Model College, Deithor, Assam, and Sri Venkateshwara University, Tripura organized



“Pineathon 2021” – a National-level Business Proposal Idea competition on the occasion of “75 Years of India’s Independence- Azadi Ka Amrit Mahotsav”.

Vivekananda College in collaboration with the Government Model College, Deithor, Assam conducted a Case Study on Pineapple Cultivators. It is a primary survey for a better understanding of the issues of pineapple farmers in Assam.

The College in collaboration with Government Model College, Deithor, Assam also organized a national seminar on “Unlocking Education: A Paradigm Shift” on 15 July 2021.

As a first collaborative activity with IID, a webinar was organized by Vidya Vistar Committee on the “Spice Processing Unit” on 3 October 2021. An industry expert from a related field took a two-hour session in order to guide the participants in establishing a new venture in spice processing.

The College organized an online certificate course on “Mutual Fund Distributors” offered by NISM – National Institute of Securities Markets (An educational initiative of SEBI) on 10 September 2021. Vivekananda College collaborated with Tijare Engineering & Research Corporation & Sim-Tech Education and Welfare Society for funding it. Under the Unnat Bharat Abhiyan (UBA), the College has adopted five urban villages and received a total of 50,000/- grant from the agency. Seminars were also organised under the scheme.

In collaboration with the District Election Officer, the Youth Voter festival was organized on 28 September 2021. A webinar was also organised on 14 Sept. 2021. In collaboration with Parampara – the Educational & Social Welfare Society, the College organized an online webinar on “Industry 4.0” on 16 October 2021.

In collaboration with SEBI-IPEF, a three-day national event on “Financial Awareness” from 18-21 October 2021 was organised.

The Number of students placed

6

Extension and Outreach Activities

The Covid-19 Task Force, Vivekananda College organized an on-campus “Covid-19 Vaccination

Camp” on 23rd September 2021. The camp was open to all (college staff, students, and the general public) above the age of 18 years.

Library Development

Web 2.0 and biometrics are the latest tools being used by the college library.

The library has around 66120 books at present. The library subscribes to sixteen print journals and ten newspapers. It is also equipped with audio-visual media like CDs, DVDs, audio cassettes, and Braille books in its collection for visually challenged students. The collection has been classified into various categories other than the classification system of the library.

Access to e-resources is provided through the DULS, NList, and J-Gate.

The college library has had a membership of the NList since 2011. Now facility of remote access has been provided to all faculty members and students. An online public access catalog (OPAC) is maintained for cataloging.

The library has been trying to develop an institutional repository of faculty publications and a digital question paper archive, for posterity.

A book drop facility is being installed in the library to cut down the time taken in returning the books. RFID implementation in the library is under process. The library facilitates honorary internships for students.

A new information service ‘e-Vaartalaap’ has been initiated and is being pilot-tested. This feature service enables the library staff to respond to the queries of the members in real-time mode (virtually). Also, an information service in virtual mode is also in the pipeline. This service will aid the users to learn the usage of e-resources and methodologies to access the same. The recording of visitors’ footfall has been digitized which helps in analyzing the statistics of the usage of the library.

Faculty Strength

Permanent: 37

Adhoc: 54



Financial Allocation and Utilization

Rs. 24,75,63,000/- (UGC) & Rs. 47,00,000/- (Govt. of NCT of Delhi)

Rs. 25,86,99,784.45/- (UGC) & Rs. 99,18,130.55/- (Govt. of NCT of Delhi)

ZAKIR HUSAIN DELHI COLLEGE



Brief History

The journey of Zakir Husain Delhi College started as the Oriental College for Literature, Science and Art. In 1825, the institution was renamed Delhi College by the British East India Company's government. By the early twentieth century, it became the centre of vibrant scientific and literary intellectual activities that would be referred to as the 'Delhi Renaissance'. The British authorities closed the institution after the 1857 revolt. Between 1864 and 1871 intermediate B.A. and M.A. classes commenced. However, the British government transferred the Delhi Oriental College to Lahore in 1877. It was reconstituted as the Anglo-Arabic Intermediate College in 1924. It was affiliated with the University of Delhi in 1925 and became one of its constituent degree colleges in 1929. The college was attacked and set on fire by mobs following the partition. Somehow, the library and office records were saved. With the support of Dr. Zakir Husain and others, Delhi College was revived in 1948. In 1975, the College was renamed Dr. Zakir Husain to honour his contribution to the College. In 1986, the college campus was shifted to its present location, Jawaharlal Nehru Marg. In 2010 the College was renamed Zakir Husain Delhi College.

Major Activities and Achievements

Zakir Husain Delhi College family actively organised and participated in academic and cultural events during this period. The College has received an Indian

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patent for a solar water distiller. The College has been awarded the DBT- Star College Scheme sponsored by the Department of Biotechnology, Ministry of Science and Technology, Government of India. Gandhi Study Circle launched a short-term skill enhancement and value-making course in collaboration with Gandhi Smriti and Darshan Samiti, Union Ministry of Culture. Dr. BR Ambedkar Centre launched its flagship programme on reading Ambedkar's "Writings and Speeches Volumes." The NSS unit and theatre society of the College organised a Nukkad Natak on the issue of Mental Health at several places in the University. The theme of the Natak was "Vo Ghav Jo Dikhte Nahi."

Our student Subhadip Mukherjee has been awarded the Consortium for the Humanities and the Arts South-East England studentship to fund his Ph.D. programme at the University of Kent, Canterbury, UK. Vidhan, a B.A. (prog.) 2nd-year student, won a gold medal in Judo in the All India Inter University Championship. Some of our students are also enrolled in for free coaching classes for various competitive exams through the Ministry of Minorities Affairs.

Honours/Distinctions

Dr. Sanjeev Kumar Associate Prof., Department of Political Science and Convenor Gandhi Study Circle



was honoured with the prestigious DR. S. Radhakrishnan Memorial Award for Excellence in Teaching & Learning by Respect India and Hansraj College, University of Delhi on 6 September 2021.

Students with Distinctions

S.No.	Name of Students	Class
1	Sourav Das	B.SC. (H) Mathematics (Third Year)
2	Ramsha Khan	B.SC. Life Sciences (Third Year)
3	Fatima Siddiqui	B.SC. Physical Sciences (Third Year)
4	Misbahul Islam	B.A. (H) Arabic (Third Year)
5	Anubhav Mahapatra	B.SC. (H) Chemistry (Third Year)

Publications

Raza, A., Khan, A., Sharma P., and Ahmad, K. (2021). Solution of Singularly Perturbed Differential Difference Equations and Convection Delayed Dominated Diffusion Equations Using Haar Wavelet. *Mathematical Sciences*, 15(NA), 123-136

Chaturvedi, M. (2021). In Other Words: Collaboration and Its (Dis)Contents in Elena Poniatowska's Here's to You, Jesusa. *Journal of Comparative Literature and Aesthetics*, 44(04), 56-64.

Kumar S. (2022). Covid -19 Pandemic and India's Regional Soft Power Diplomacy. *Journal of Polity and Society*, 14(01).

Mathur, R., Negi, K. S., Shrivastava, R., and Nair, R. (2021). Recent Developments in the Nanomaterial Catalysed Green Synthesis of 1,4-Dihydropyridines. *Royal Science Chemistry Advances*, 11(03), 1376-93.

Chand, M., Rawat, A.S., Khanuja, M., Rawat, S., and Ranwa, M. (2022). Dye Degradation Study of Malachite Green and Congo Red by Using ZnIn₂S₄. *Materials Science and Engineering*, 1221(01).

Meena, T.L. (2021). उपनिषद् साहित्य में ध्वनि. संस्कृत मंजरी. दिल्ली संस्कृत अकादमी, दिल्ली सरकार, नई दिल्ली, 19.

Rehman, J.U. (2021). Baba Fughani: Hafiz Kuchak. *The Persian Research Journal*. Department of Persian, University of Delhi.

Farooqi, A.W., Abrol, S., and Hayat, M. (2022). An Analysis of Legal Framework to Combat the Cybercrime. 01, NA (12).

Abdullah. (2021). A Computational Approach for Finding the Numerical Solutions of Modified Unstable Non-Linear Schrödinger Equation via Haar Wavelets. *Mathematical Methods in Applied Sciences*, 45(02), 681-696.

Kumar M., Kumar J., Sharma S., Hussain, M.A., Shelly, A., Das B., Yadav, A.K., and Mazumder, S. (2021). TLR22-Mediated Activation of TNF- α -caspase-1/IL-1 β Inflammatory Axis Leads to Apoptosis of *Aeromonas Hydrophila*-Infected Macrophages. *Molecular Immunology*, 137, 114-123.

Research Project

Department of Biotechnology, Government of India, Ongoing (since 2020), DBT Star-College Scheme, 63 lakhs

Patents Filed/Granted

One Patent Indian Patent Number 383711- Solar Water Distiller

Seminars Organized

A Seminar titled, 'The Relevance of His Philosophy in a Modern Age: An Interactive Session on Mahatma Gandhi', was organised on 04 Oct. 2021, with the speaker- H.E. Dr. Roger Gopaul, High Commissioner for the Republic of Trinidad and Tobago.

A Seminar titled, 'Dr. Ambedkar's Multifaceted Contribution to Modern India', Ambedkar Jayanti Special Address was organised on 14 April 2021, with the speaker- Dr. Narendra Jadhav, Member of Parliament, Rajya Sabha.

A Seminar titled, 'Afghanistan at Crossroads: Challenges and Prospects, Changing Dynamics of International Politics', organised on 25 August 2021, with the speaker- Dr. Shabnum Tejani, SOAS, University of London.

A Seminar titled, 'Indian Ideas of Freedom, Indian Ideas of Freedom', organised on 28 July 2021, with



the speaker- Dennis Dalton, Emeritus Prof. of Political Science, Barnard College, Columbia University.

A Seminar titled, 'Moral Cruelty: Gandhi, Dignity, and Resentment, Distinguished Gandhi Lecture Series, organised on 30 Jan. 2022, with the speaker- Prof. Aishwary Kumar Eminent Political Theorist and Intellectual Historian, Stanford University, USA.

Conferences Organized

'Climate Change-An Imminent Global Emergency' organised on 16 Dec. 2021, Self-Funded

In-house Workshop on Laboratory Skills Training organized on 06 Dec. 2021, Self-Funded

National Workshop on Application of Biotechnology, Bioinformatics and Biostatistics Tools for Students, organised on 20 Dec. 2021, Department of Biotechnology, Government of India

Seminar/Conference Presentations

Sanjeev Kumar Department of Political Science, delivered a lecture as the Guest of Honour on the "Impact of Mahatma Gandhi on India's freedom struggle" at the 4th Regional E-Conference organised by Gandhi Smriti and Darshan Samiti, Ministry of Culture, New Delhi as a part of the celebration of Azadi ka Amrit Mahotsav on 2021, July 27.

Dr. Rajesh Tripathi presented a paper titled "Vartaman Priprekshya me Karma ki Naitik Prasangikta " at the 65th National Conference of Akhil Bhartiya Darshan Parishad, held on 2021, August 17-22.

Dr. Saurabh Sonwani presented a paper titled "Carbonaceous Aerosol Variability & Their Association with Meteorological Parameters in Delhi, India" at the 21st National Science Symposium, IISER Kolkata, India (online), organised on 31 January – 04 February 2022.

Dr. Amir Jamal presented a paper titled "Role of Scholars of Madrasa Aminia in Promotion of Arabic Language" in a Two-Day National Seminar on "Role of Indian Madrasas in promotion of Arabic Language and Literature", Department of Arabic, University of Delhi, Delhi, held on 2022, March 15-16.

Ariba Zaidi delivered an invited lecture on "Cancel Culture, Censorship and Freedom of Speech" at Sri

Aurobindo Centre for Arts and Communication (SACAC), Delhi, on 2021, December 20.

Shraddha A. Singh presented a paper titled "Posthuman Feminism and Agency: Embodiment, Relationality and the Politics of Labour in Margaret Atwood's The Heart Goes Last" at the International Conference, "Re-Thinking Agency: Non-Anthropocentric Approaches", University of Warsaw (online), held on 2022, February 03-05.

Sachin Kumar presented a paper titled 'महर्षि दयानन्द और भारतीय राष्ट्रवाद', at a National Seminar at Arya Girls College, Ambala Cantt. on 2022, May 10.

Mukul Chaturvedi Chaired a Session 'Disability and Literary Narratives' in the 2nd IDSC International E-Conference on "Disability: Resistance, Disruption and Transgression" organised by the Indian Disability Studies Collective (IDSC) in collaboration with GAD-TLC & Centre for Disability Research and Training, Kirori Mal College, University of Delhi, on 2021, November 29-30.

Sanjeev Kumar Department of Political Science, delivered a lecture on "Relevance of Mahatma Gandhi's Principles in the Contemporary World" in a one-day National Webinar organised by the Department of Political Science, Imphal College, Imphal, on 2022, January 10.

Shraddha A. Singh presented a paper titled "Prostibots and the Capitalocene: Feminism's Posthuman Turn in Margaret Atwood's The Heart Goes Last" at the International Conference 'Artpolitical: Margaret Atwood's Aesthetics' organised jointly by the University of Gottingen and University of Erfurt, Germany, (online) 2021, October 14-16.

The Placement Details

250

35%

Number of Companies Visited for Campus Recruitment

Around fifty-five companies reached out to our students. The interviews were held in both online and offline modes. The companies that hired our students are from various sectors such as health, tourism, edutech, insurance, technology, and

publication houses. Our students are placed in companies like earthday.org, Snapdeal, Child Rights and You, Blue Rose Publishers, and United Nations Volunteers.

Library Development

Number of Books Acquired: 1366
 General Grant Allocated: 15,60,000.00
 General Grant Spent: 7,59,820.00
 Number of International Journals Subscribed: Nil
 Number of National Journals Subscribed: 01
 Number of Newspapers: English 10
 Hindi 06
 Urdu 05
 Bengali 01

Malayalam 01
 Number of Magazines: English 13
 Hindi 09
 Urdu 12
 Bengali 01

Faculty Strength

Total-217
 Permanent-122
 Temporary-03
 Ad-Hoc-92
 Sanctioned Strength-232

Financial Allocation and Utilization

Rs. 7510.90 Lakh
 Rs. 6716.10 Lakh

ZAKIR HUSAIN DELHI COLLEGE (EVENING)



Annual Report
2021-2022



Zakir Husain Delhi College Evening
(University of Delhi)
Jawahar Lal Nehru Marg
Delhi - 110002

Brief History

Zakir Husain Delhi College, one of the oldest and most prestigious colleges in Delhi, comes with the legacy of a rich and historically significant past. The institution traces its origins back to a Madrasa, founded by Ghaziuddin Firoz Jung that went on to become one of Delhi's leading places of learning. Until the late eighteenth century, the Madrasa was located near a Mosque just outside Ajmeri Gate, one of the gates of the walled city of Shahjahanabad. Built in the Indo-Saracenic style, the old building was designed with all the elements of a Madrasa-Mosque, Maktaba, a library, and a double tier of Hujras for the students. The Madrasa, at that time, functioned as a traditional Muslim institution of higher learning with Arabic and Persian being taught to a small number of students.

The British took over Delhi in 1803, and this humble abode of learning became Delhi College, also popularly known as 'Dilli College' in 1825. The institution remained one of the centres of the Delhi Renaissance during the 1830-40s. It was closed down after the War of Independence in 1857, only to open two decades later in 1877, when it was merged with the Government College of Lahore. Initially, Arabic and Persian were the main languages taught at the Madrasa. However, with the establishment of British rule, there came up an increasing desire to teaching-learning of English. The College, however, retained Urdu as a medium of studies with special emphasis on Arabic, Persian, and Sanskrit. One of the salient features of Delhi College was that modern subjects like Mathematics, Geometry, Philosophy, and Physics, amongst other

sciences, were taught in Urdu. The College set up the Delhi Vernacular Society in 1832 for the translation of scientific treatises, Greek classics, and Persian works into Urdu. The teachers and the students became the centre of a scientific and literary flowering that C.F. Andrew's referred to as 'the Delhi Renaissance'. The old Delhi College progressed with Oriental and Western education, a step to uphold secularization and modernization because its purpose was to provide both traditional and modern knowledge to the students. With the advancement of science, the College was able to create an atmosphere of rationality to challenge the shackles of conservatism.

Major Activities and Achievements

The staff members of the College have made a mark in the academic life of the University of Delhi. Their academic achievements are highly appreciable. The following description gives an account of some of the academic achievements of our teachers, as per records submitted to the office:

Dr. Sharad Ranjan
Dr. Sharad Ranjan published a book titled 'Basic Computational Techniques for Data Analysis' published by Sage India, Delhi, 2021.

Dr. Jai Kishan Prasher
Delivered an invited lecture at an international conference on 'Economics as a Welfare Science: Hollow or Hubristic' organised by St. Joseph College and Sacred Heart College, Kerala on 18 and 19 June 2021.

Zaheer Rehmati
Charagh-e-Seena Siper, Prof. Naseem Ahmad Khan, AIWANE URDU, 2021, Pg. 37, 2321-2888, UGC Care no. 8 Arts & Humanities.

Dabistan Rampur Men Urdu Afsana, Shama e Hayat, 2021, Pg. 38 ISSN 2395-1230, UGC Care 347 Arts and Humanities

Prof. Naushad Alam
'Qaumi Zaban' 2021, vol. 6, pg. no. 32, ISSN NO TELU RD/2015/32522, UGC care list 291 Aiwan e Urdu, "Urdu Nazm aur Jung-E-Aazadi", pg. no. 21, ISSN 2321-2888, UGC Care- 8

Honours/Distinctions

RDC: A cadet attended and became a part of this prestigious Republic Day Camp and Marched on Rajpath (now Kartavyapath). Cadets were selected after a thorough selection procedure.

Basic Mountaineering Camp: A Tremendous and adventurous camp attended by a Cadet. It endured and rectified faith in oneself to the fullest after being exposed to the calling of the magnificent mountain.

PM Rally: Three cadets were part of this amazing camp, under the presence of various dignitaries of armed forces

1st position in "Tribute to Babu" Gandhi Study Centre, ZHDCE

1st position in "women empowerment" Commerce Society, ZHDCE

4th position in "Covid19 pandemic and awareness programme" NSS Unit, ZHDCE.

विशेष योग्यता प्रणाम पत्र in "स्पंदन" Literary Fest organised by SRCC.

3rd Position in Intra College Poetry Competition organised by NSS Unit of ZHDC (Evening).

3rd Position in Open Mic Competition organised by the Salvation Society of Sri Aurobindo College.

First Position in All India Debate Competition Organised by Vishva Hindi Sangathan- New Delhi.

Students with Distinctions

S.No.	Name of Students	Class
1	Avinash Kumar	BA (Prog.)
2	Muskan Rathor	BA (Prog.)
3	Sania Ansar	BA (Prog.)
4	Rachit Singh	B.COM (P)
5	Pranav Vaisisht	B.COM (H)

Publications

Sharma A. (2021). आदिवासी अस्मिता के सवाल और हिन्दी रंगमंच . जनकृति, 71 (March 2021), 10-18.

Baishya, S.K. (2021). Translation of Shakespeare's Plays into Assamese: A Brief Survey. *Bi-Annual Periodical Journal*, vol-04.



Alam, N. (2021). Qaumi zaban. UGC Care Journal, 06, 32.

Sharma A. (2021). महाभारत कालीन मिथक का आधुनिक प्रयोग: .ज्योतिर्वेद प्रस्थानम्, (May-June 2021), 43-47.

Seminars Organized

Seminar organised on “Middle-Eastern Literary Influence in Bengali Literature” on 13 March 2022, with the speaker Prof. (Dr.) Amitava Chakraborty, Department of MIL, University of Delhi.

Conferences Organized

An online workshop on e-waste management with e-Junkie (an electronic waste management company) was organized by the Environmental Studies Society in association with Eco-Club on 29 October 2021. E-Junkie forays into e-waste management in association with Huladeck Recycling and has already acquired individuals and corporate clients like Colgate with over 500 kg e-waste collections in Delhi. The young duo of Aditya Rai and Devansh Chopra sensitized the students about the e-waste industry. They are doing the work of spreading awareness in the capital with the words “Sabko Batao, e-Waste Ghatao”.

Seminar/Conference Presentations

The NSS Unit of Zakir Husain Delhi College (Evening) organized a series of online events in the academic session 2021-22. However, a couple of offline events were also organized following the Covid-19 guidelines. The Orientation Programme was organized through MS Teams on 2022, January 12. Plantation drive was done as a welcoming ceremony for the freshers with a target of planting one hundred saplings every month. The freshers actively participated in this activity. The next event was organised on 12 February 2022. The event ‘Nadi Ko Jano’ was organized in association with Bhartiya Shikshan Mandal, Delhi Prant. The next online event was organized on 8 March 2022 to celebrate International Women’s Day. Dr. Jyoti Raj, Associate Prof., Govt. College for Women, Murthal, Haryana, a recipient of the Indira Gandhi National Award for her contribution to NSS, was invited as a resource person to speak on the topic ‘Role of NSS in Women Empowerment.’ She spoke on the role played by NSS in educating and empowering women referring to her own achievements and experiences. She also

enlightened the volunteers on the scope of NSS in uplifting marginalized people. Dr. Jyoti advised the volunteers to organize a few meaningful activities such as a camp on anaemia, adopting a colony or a village, giving remedial classes to the poor children etc. This event was also organized on Google Meet. It was followed by an Interactive Session on Mental Health. We invited Prof. Swati Pal, the Principal of Janki Devi Memorial College as the resource person.

Library Development

Number of text books added in the Text Book Section- Books- 240
General /other books added in the General Section - Books 734
Two new computers and printers were installed in the library.

Faculty Strength

100

Financial Allocation and Utilization

Rs. 31,75,00,000/-

Rs. 24,08,07,894/-



GENERAL FACILITIES

ALUMNI AFFAIRS

The Alumni Affairs Office promptly responds to various requests by alumni and provides services to the alumni in their various needs, some of which include:

Degree / Degree Verification / Degree Attestation / Duplicate Degree

Marksheet / Duplicate Marksheet / Marksheet Attestation

Transcript / Migration / Provisional and Medium of Instruction Certificate

The DU Alumni Association (DUAA) continues to play its statutory role in University decision-making. DUAA Representatives to the DU Court are Mr. Hari Shankar Gupta, Prof. Virendra Kumar Agrawal, Prof. Jai Prakash Sharma Mr Aman Kumar Prof. 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 for a 5-year term 2018 - 2023.

The Alumni Affairs Office has taken the initiative of using digital mode of registering alumni. This is being done through the Samarth Portal. The outcome is a many-fold increase in the alumni database. At the same time, the office continues to expand the list of illustrious alumni who have made a mark in different spheres in different

List of eminent alumni from various departments and colleges were displayed in the inauguration ceremony of the centenary Celebrations.

Plans are underway for a greater alumni engagement in the various activities of the University and enrichment of DU heritage, tradition, expansion and development and progression of the current and future students. Distinguished Alumnus, Prof. Jagadish, President, Australian Academy of Sciences interacted with Hon'ble Vice-Chancellor. An outcome was the nomination of 7 students in Science for The Future Research Talent (FRT) awards, which is a competitive and prestigious program that attracts the very best international students from high-quality Indian institutions and provides them exposure to ANU research in the Science, Health, Medicine and Computer Science disciplines. The program offers a valuable opportunity for DU's students to form international linkages and develop research skills at Australia's best university



CULTURE COUNCIL

Major Activities and Achievements

In pursuance of the notifications issued by the Ministry of Education and Ministry of Information and Broadcasting, the University of Delhi was celebrating 75 years of India's Independence in collaboration with constituent Colleges and Departments. These celebrations were based on the theme "Azadi Ka Amrut Mahotsav". The Culture Council had been entrusted with the responsibility of organizing this flagship programme of the Government of India with active support and co-ordination of all Colleges and Departments.

The Culture Council was given the responsibility to pursue the communications received from the MoE and MOYAS regarding nationwide campaign to motivate and cheer the Indian Athletes participating at the Tokyo Olympics 2020-21.

For the academic year 2021-2022, University of Delhi conducted the centralized ECA admission process on the basis of marking of ECA certificates only. This year 17,276 applicants had applied under the 14 categories of ECA. The entire admission process was handled by the Culture Council.

Honours/Distinctions

The ECA admission process of under-graduate courses for the session 2020-21 was facilitated by the Deputy Dean, Culture. The

Deputy Dean, Culture as member of the Committee to implement the Government of India programme "Ek Bharat Shreshtha Bharat" had been coordinating all cultural activities associated under this programme.

Facilities

The Office of Culture Council is the Nodal Office for all UG Admissions under ECA Category. The Culture Council Office organizes various cultural activities with the objective of not only just generating interest and appreciation, but also active participation in and celebration of culture at all levels.

Other Significant Information

Joint Dean, Culture Council is also the Member Secretary of the Thematic Committees on Media and Management of Social Media of the Centenary Celebration Committee, besides her other roles in the Centenary Celebration Committee and its Thematic Committees. She has been coordinating with Colleges to nominate the faculty members for media related issues of Centenary Celebrations such as: 1. A Social Media Ambassador
2. A Member for the Panel of English content writers for press releases
3. A Member for the Panel of Hindi content writers for press releases

DELHI UNIVERSITY LIBRARY SYSTEM

Major Activities and Achievements

Print Resources

The Library System added 4229 volumes of books to its collection by purchasing out of Capital Assets Budget. The total collections have 1710131 volumes. The current print Periodicals Subscribed by DULS is 902. It also holds collection of 48119 thesis/Dissertation.

Electronic Resources: The DULS continued to strengthen the accessibility of electronic resources to the users. There are presently 49 electronic databases accesses in the University.

Audio Book Resources and Braille Library
The Braille Library has 3 audio book production studios, 1 high capacity Braille embosser, network of 22 latest computers with softwares like Daisy System, Sparsha, OBI, PUTTY, Sigtuna, Jaw, Duxbury, Leap



Office etc. There are 1863 audio books, 1990 Braille books, 1863 e-text and 403 books in E-Pub format. Presently 15 members are enrolled in the library. It has circulated 200 books on CDs and Pan drives. Braille Library is also a member of Sugamya Pustakalya.

SEMINARS / CONFERENCES / WORKSHOPS/ EXHIBITION

Dr. Rajesh Singh:

Understanding Plagiarism Detection Software Urkund" 6th April, 2021 (2:30 PM)

User awareness session on how to access content (SAGE) 8th June 2021 (3:00 PM)

Web of Science and EndNote in Research 17th June 2021 (3:00)

Virtual Publishing Workshop for Researchers (WILEY) Wednesday, 23 June 2021 (3:00 PM - 04:00 PM)

Read and Publish Model and Online Resources from Cambridge University Press (CUP) 8th July 2021 at 3.30 pm onwards

"R&D Productivity using SciFinder-n" 20th July 2021 (Tuesday) Time: 3.00 pm- 4.30 PM

Webinar on getting started with Westlaw Asia 29th July Time (3 PM)

"Understanding Plagiarism Detection Software Urkund" July 30, 2021 (Friday) Time: 3:00 PM

Amrit Mahotsav Book Exhibition Organized on the eve of Independence Day from August 14th – 20th, 2021.

PRIME Database the primary capital market 25th August 2021, Wednesday at 3pm onwards

Training Session on JoVE Resources in collaboration with University of Delhi Monday, 13th September 2021 TIME: 03:00 PM (IST)

Virtual Training Session on Lexis Advance India Monday, 15 November 2021 at 3:00 PM - 4:00 PM.

"Power Your Research with Scopus" 23rd November 2021, Tuesday, Time: 3.30 pm

Online Launch of DU eLibrary Date: 03 December 2021, Friday, Time: 3 PM onwards

Author workshop by DULS in collaboration with Sage Publishing Tuesday, December 21st, 2021, Time: 3.00 PM

"Discover Emerald resources for your academic excellence and research " Tuesday, 18 January 2022 | 3:00 PM – 4:00 PM

Understanding Plagiarism Detection Software Urkund/Ouriginal Friday, 28 January 2022 | 3:00 PM onward

Prowess IQ Friday, 4th February 2022. Time: 3:00 PM - 4:30 PM

"Accelerate your Research Using Elsevier's Scopus Friday, 11th February 2022 Time: 3:00 PM

Annual Convocation Exhibition of Doctoral Research 25th February to 4th March, 2022

Facilities

Delhi University E-Library DU E-LIBRARY Platform is launched on 3rd December 2021. The DU E- library is a latest initiative to connect with more users and serve them with millions of DU-subscribed and open access e-Resources, anywhere, anytime and on any device. The UoD E-Library serves as a common gateway to: 1. 20,000+ eBooks from top rated Indian and International Publishers including Wiley, Elsevier, Sage, DeGrutyer, Brill, IGI Global, World Scientific, Cambridge University Press and many gold standard open access publishing platforms. 2. 25,000+ eJournals from most renowned publishers like SpringerLink, Taylor and Francis, OUP, CUP, ACS, IOP, Sage, DeGrutyer and more. 3. 10,00,000+ eTheses and dissertations from 1000+ Universities from India and abroad. 4. 1,30,000+ Video Lectures from IITs, IIMs, NITs, ISB, many foreign universities like MIT, Harvard, Yale, UCI, many publisher's broadcast channels like Royal Society of Chemistry and Ted-ED. 5. Legal Databases including LexisNexis, SCC Online, Westlaw and Manupatra. 6. News from 50+ eNews



publications like TOI, The Hindu, CNN, Time, etc 7. Topic Collections on emerging areas in Science, Technology, Social Sciences, Arts and Humanities 8. 1000s of Expert Talks and Literary Works in English, Hindi and Urdu for leisure reading the platform is also powered with: 1. A single click discovery window for scholars to discover latest research articles from all subscribed and open access publishers; thus, saving them time and effort. 2. A Personal Reading List feature for students to save content for future reference. 3. An inbuilt remote authentication layer that makes all subscribed e-Resources accessible to students 24x7, from anywhere. 4. Unique 'Socio Lib' feature that allow users to follow peers and discover library resources in a social manner. In order to make the e-Library services accessible to all, the platform has also been launched as an Android and iOS app for now, the e-library platform and mobile library app is available only for PG students, PH. D. Students, Research Scholars, and Faculty members of DU and affiliated colleges. A response team is also being setup by Refread e-library team to cater to student requests and help them take full benefit of the platform.

Citation Analysis Databases, Web of Science/Scopus Federated/Meta Search Services Similarity Detection: The Central Library is continuing the work of similarity detection for the research assignment submitted by students during April 2021 to March 2022. Central Library has verified a total of 1045 Ph.D. Thesis and M. Phil Dissertations, other research assignments and faculty research papers for promotions.

Document Delivery Service: The J-Gate provides article-level access for all the databases accessible through E-Shodh Sindhu, about 5,200 open access electronic journals, and print journals subscribed by 30 University libraries designed as Inter-Library Loan (ILL) Centers of the INFLIBNET Centre. DULS is one of the 30 designated ILL Centers for the services. Additionally, a large no. of books is provided to the user on Inter-library loan (ILL) through DELNET.

HUMAN RESOURCES: (1) Central library regularly conducts training programmes for professional development of library staff of the University & College libraries. "The computer training programme for IT application in libraries" are conducted as per

following schedule: Sr. No. Date Post 1 01 Sep 2021 - 07 Sep 2021 Library Attendant 2 08 Sep 2021 - 14 Sep 2021 Library Assistant 3 01 Sep 2021 – 07 Sep 2021 SPA Sr. No. Date Post 1 26 May -01 June 2022 Library Attendant 2 02 June – 08 June 2022 Library Assistant 3 09 June – 15 June 2022 SPA (2) Training programme is organized for library staff by the visiting trainers from INFLIBNET. It is aimed to train staff for uploading of theses on shodhganga portal.

Information Literacy Programme: DULS continues its, information literacy activities with a view to empower the students, researchers and faculty members to seek, evaluate, use and create information effectively and efficiently.

DULS organizes orientation programs, workshop and hands on training. Following are the program contents:

- E-Resource Orientation Program
- Online Information retrieval
- Orientation to Open Access Education Resources
- Bibliographic Citations
- Copyright and Plagiarism
- Citation Analysis Databases, Web of Science/Scopus Federated/Meta Search services

Other Significant Information

Delhi University Library System (DULS) is a federally managed combination of physical and virtual collections and associated information services, where in on the one hand, the traditional system of library holding is maintained and on the other hand, ICT based services are implemented. The 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.

Library services during COVID-19: The Library System continued to support teaching, learning and research during COVID-19 restrictions. The users were provided with Remote Login facility to remotely access the e-resources subscribed by the University and accessible through E-Sodh-Sindhu. The major libraries were re-opened for users following Covid appropriate restriction.



Print Resources

The Library System added 4229 volumes of books to its collection by purchasing out of Capital Assets Budget. The total collections on 31-03-2022 are 1710131 volumes. The current print Periodicals Subscribed by DULS is 902 which are renewed out of maintenance grant. It also holds a well organized collection of 48119 theses/Dissertations.

Electronic Resources

The DULS continued to strengthen the accessibility of electronic resources to the users. There are 49 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, 1 high capacity Braille embosser, network of 22 latest computers with softwares like Daisy System, Sparsha, OBI, PUTTY, Sigtuna, Jaw, Duxbury, Leap Office etc. There are 1863 audio books, 1990 Braille books, 1863 e-text and 403 books in E-Pub format. Presently 15 members are enrolled in the library. It has circulated 200 books on CDs and Pan drives. Braille Library is also a member of Sugama Pustakalya under which the user can download the study material in the form of Audio Books or E-text by remote access.

ACTIVITIES IN OTHER MAJOR LIBRARIES

Central Library (Including the Arts Library)
The Central Library (including the Arts Library) was not fully functional owing to COVID-19 restrictions. However, it has been able to add a collection of 1099 volumes in the last financial year with a membership of 3614 users and the circulation of 108000 books. The library has been providing Plagiarism Checking Services to its students and teachers. A dedicated desk has been established with trained staff to check research work and generate similarity reports. The Internet access facility at Research Floor in the Central Library is being used regularly by scholars when library is open. The Library is subscribing 227 periodicals in print format. The total collection of thesis and dissertation in Central Library is 48119. A number of visitor from outside Universities like Agra,

Banaras, Priyagraj, Rohtak, Mahendergrah, Kerala, Karnatak, and Mumbai etc visited the Library.
Central Science Library

The Central Science Library has a membership of 1307 users with circulation of 9057 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 180.

Ratan Tata Library

The Ratan Tata Library has a membership of 1413. 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 237 including print and online journals. It also has approx. -1500 thesis and dissertations in its collection. It also acts as a deposit centre of UN's and Govt. of India's publications.

South Delhi Campus

The South Delhi Campus Library has been able to add a collection of 967 volumes in the last financial year with a membership of 241 users and the circulation of about 3776 books. It has Subscription of 74 print journals, holds 15621 back volumes of periodicals and is fully computerized. Library activities like circulation-Issue-return, reminder, membership, Acquisition-ordering and billing, Serial Control, OPAC takes place in a fully automated environment using Troodon Library Management system.

Faculty of Music and Fine Arts Library
The Library of Music and Fine Arts has a total collection of 16659 books with a membership of 639 users. In its digital collection its has 2643 cassettes, 1187 CD's 104 Talking Books beside 344 Braille Books. As an extension of Audio Visual Library it has a Listening Room with 10 CD players where students can listen the audio material.
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.

E-Books

During the financial years 2021-2022 DULS has been able to procure 1330 e-books titles in perpetual



access mode. The bibliographic details of these e-books have been incorporated in the DULS OPAC to provide access. Besides, an e-book search facility has

also been developed for use by different stakeholders. It is available at www.eb.du.ac.in.

DELHI UNIVERSITY SOCIAL CENTRE CO-ED SECONDARY SCHOOL

Major Activities and Achievements

Teachers organized following activities virtually:

Yoga Day

Poster Making competition- Save environment

Bhasha Sangam Activity

Online Quiz – Ganga Quest

Independence Day

Awareness session for pandemic Covid -19

Pariksha pe charcha – Poster competition organized by CBSE

Health Talk on antimicrobials

Facilities

The School has strength of around 600 students. Due to Pandemic Covid- 19 schools were remain closed.

But our teachers did their best and managed to contact the parents and students through whatsapp and Google meet. Regular online classes were taken by the teachers as per the guidelines of Directorate of Education (DOE). In order to maintain the continuity of teaching learning process without any interruption.

Other Significant Information

Teachers attended Webinars:

Organized by CBSE

Organized by NCERT

Management took the virtual meetings with staff to motivate and counsel them. It was a great effort by the management during this tough time.

Parents Orientation Programme.

DELHI UNIVERSITY WOMEN'S ASSOCIATION

Major Activities and Achievements

Webinar on International Yoga Day celebrated on 18.06.2021. The speakers were Dr. Indra Narayan Raman (yoga Organizer, Gandhi Bhawan DU & founder of Shaswat Yoga Sabha), Deepali Arora (Dietician, Naturopath and psychotherapist) Shalini Singhal (Yoga trainer, Bhartiya Yoga Sansthan).

One day workshop on Teacher's Day on 05.09.2021.

Deepawali celebrated on 02.11.2021.

General Body meeting of Delhi University Women's Association on 17.12.2021.

New year and Lohri Celebrated on 13.01.2022.

One day Seminar on International women's Day on 08.03.2022.

Facilities

Play Schools: DUWA runs two Pre-schools, Durgabai Deshmukh Balwadi and Usha Ganguly Shishu Vihar, established in 1966 and 1967 respectively, to promote intellectual, emotional, social, esthetic and

physical development of a child. The Balwadi is meant for the children from economically weaker sections where they are given free nutrition. There are about 200 children enrolled in both the schools

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

Vaatsalya: This childcare Programme is meant to support the working mothers from Delhi University



with the objective of reducing their stress related to the wellbeing of their children. This Day-Care facility is for the age group of 6 months to 8-year-old children. There are 50 children admitted to this facility.

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

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

Sahyog: Sahyog programme helps school students of standard from I - XII from the neighborhoods with

the objective of improving their academic performances. In this tuition support programme, the children are served nutritious snacks and health drinks. Classes are held six days a week from 3-5 pm., and there are about 40 children enrolled in this programme.

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

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

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

DIRECTORATE OF HINDI MEDIUM IMPLEMENTATION

The Directorate of the Hindi Medium Implementation publishes high standard text books in Hindi, primarily on Social Sciences and Humanities for the benefit of under-graduate and post-graduate students who opted for Hindi as the medium of their study. We have published approximately 275 books in various subjects including History, Political science, Education, Commerce, Law, Sports and Physical

Education, economics, Philosophy, Geography, Literature etc. so far.

For the year 2021-2022, Directorate has seven new titles, ten revised edition and more than hundred reprints ready to publish. Out of these 14 books are already in printing process.

FOREIGN STUDENTS' REGISTRY

Major Activities and Achievements

There has been an increase among the international student community to seeking admission to various programmes offered by the University of Delhi for the



academic year 2021-2022. The office of foreign students received 3165 applications. In total 626

students, from 72 different countries were admitted to the first year of various programmes ranging from

certificates courses to Ph.D. Programme of the University of Delhi during the academic session 2021-2022.

Best Practices of Foreign Students' Registry:

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

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

Inter-Linkage with ICCR & Ministry of External Affairs, Government of India: 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. As a part of it, the ICCR has opened its Regional office at the Main Campus of our University. This has facilitated our students hugely as they do not need to commute to the ICCR headquarters anymore.

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. In addition, we created a dialogue box on FSR website for foreign students.

Online Admission & Fee Collection: The practice introduced since 2019 for the collection of fees

through online mode was continued this year also.

Appointment of one Nodal Officer in each College/Department/Institute/: The post-covid scenario has further necessitated the appointment of nodal officers in various Colleges. The role of nodal officer this year has been very important. The FSR office has a constant interaction with most of the foreign students.

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

Actions Taken by Foreign Students' Registry:

Counseling of foreign students: This is undertaken at the time of admission as well as on regular basis at the FSR office through personal contacts and convening of zoom meetings. For that the FSR office bought dedicated Zoom. As all admission were done online and classes were also held online only, the interaction between newly admit students was possible through telephone calls and regular email.

Meeting with Ambassadors/Embassy Officials for the benefit of foreign students. There were few interactions this year which happens during November 2021 – February 2022 (after the second wave of pandemic) It included the visit of Ambassador from Indonesia, Cambodia, Nepal and Ethiopia).

An Admission Committee was formed to supervise the complete admission process. Committee was formed a bit late (October 2020) The admission process was also delayed due to the the pandemic.

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

For the extension of visa, the FSR worked closely with FRRO as all such letters were issued only by email.



GANDHI BHAWAN

Major Activities and Achievements

Lecture/ Talk on 'Sanskrit: The Heritage of India' by the Department of Assamese, Bimala Prasad Chaliha College, Nagarbera. Keynote Speaker: Director, Gandhi Bhawan on 2 July 2021. Lecture/ Talk on 'Rashtriya Shiksha Niti 2020 tatha Bhartiya Gyan-

Vigyan Parampara' organized by Satyawati College (M), University of Delhi. Chief Guest: Director, Gandhi Bhawan on 13 July 2021. Lecture/ Talk on 'Mahatma Gandhi: Independence & Beyond' under the auspices of Azadi ka Amrut Mahotsav organized by Hindu College, University of Delhi 16 July 2021. Keynote Speaker: Director, Gandhi Bhawan. Lecture/ Talk on 'Azadi ka Amrut Mahotsav' organized by Miranda House, University of Delhi on 24.7.2021. Chief Guest: Director, Gandhi Bhawan. Lecture Series (Webinar) on 'Bhartiya Chintan ki Aadhar Bhoomi – "Chaar Ved"' organized by Mangal Srishtri, New Delhi on 25.7.2021. Keynote Speaker: Director, Gandhi Bhawan. Lecture/ Talk on 'Gandhi and New Education Policy' organized by Satyawati College, University of Delhi on 4.8.2021. Chief Guest: Director, Gandhi Bhawan. Webinar on 'Indian Knowledge System & The National Educational Policy 2020' organized by IQAC, Moti Lal Nehru College (E), University of Delhi on 5.8.2021. Lecture/ Talk on 'Azadi ka Amrut Mahotsav aur hamara Dayitva' organized by Ram Lal Anand College, University of Delhi on 6.8.2021. Seminar on 'Rashtriya Shiksha Niti 2020 tatha Mahatma Gandhi' organized by Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi in collaboration with Gandhi Bhawan on 21.8.2021. Azadi ka Amrut Mahotsav – Bhashan Pratiyogita on 'Azadi ke 75 Varsh' organized by Gandhi Bhawan, University of Delhi on 24 & 25 August 2021. Online Introductory Workshop on E-Bharatisampat – online & offline, Speaker: Director, Gandhi Bhawan. Gandhi Bhawan in collaboration with Samskrita Bharati, Samskrita Promotion Foundation (Delhi) and Department of Sanskrit, University of Delhi organized a seminar. A National Seminar on 'Gandhi Yug ke Jalte Chirag' in collaboration with Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi and Gandhi Bhawan was organized on 30.9.2021. National Webinar was organized on 'Mahatma Gandhi Aur Rastra Nirmaan' under the

auspices of Azadi ka Amrut Mahotsav namely, "Heritage" by History Department Association, Janki Devi Memorial College, DU. Keynote Speaker: Director, Gandhi Bhawan on 1.10.2021. Indian Freedom Movement and the Communication Art of Gandhiji" organized by Indian Institute of Mass Communication (IIMC), New Delhi on 1.10.2021. Keynote Speaker: Director, Gandhi Bhawan. International Day of Nonviolence/ Gandhi Jayanti on 2.10.2021. Webinar on 'Gandhivaad: Atmanirbharta aur Sarvodaya' organized by Bhaskaracharya College of Applied Sciences, University of Delhi on 4.10.2021. Keynote Speaker: Director, Gandhi Bhawan. National Seminar on 'Science & Technology in Vedic Literature and Its Relevance in Modern Perspective' Maharshi Sandipani Rashtriya Vedavidya Pratishthan (Govt. of India), Ujjain in collaboration with Department of Sanskrit and Gandhi Bhawan, University of Delhi on 23 – 25 October 2021. Martyrs' Day on 30 January 2022.

Honours/Distinctions

III Prize winner in Small Garden Category in Flower Show.

Facilities

Certificate Course in Charkha Spinning: Three months/ 24 hours. Held every Thursday from 3:00 p.m. – 5:00 p.m. Fee: Online Rs. 100/-, organized quarterly.

Certificate Course Khaddi/ Handloom: Six months/ 48 hours. Held every Thursday from 10:00 a.m. – 5:00 p.m. Fee: Online Rs. 100/-, organized quarterly.

Certificate Course in Yoga and Meditation Training: Three months/ 70 hours. Classes are being held twice a week from 3:00 p.m. – 5:00 p.m. Due to pandemic, classes are being conducted online/ virtual mode. Fee: Online: Rs. 500/-, Organized quarterly.

Yoga & Meditation Classes for fraternity and general public (free services): These classes were being held till first half of March 2020 due to COVID19. The schedule was: Monday – Friday from 7:00 a.m. - 9:00 a.m. and from 1:00 p.m. – 5:30 p.m. Saturday: from 7:00 a.m. - 9:00 a.m. Meditation Class: Friday 4:30



p.m. – 5:30 p.m. These will be reopened soon/ as per the directions.

Gita Discourse for fraternity and general public (free services): Discourse is being held every Sunday from 10:00 a.m. – 12 noon Swami ji of Ramakrishna Mission, New Delhi take up the classes.

Training of Short-hand and Typing in Hindi: The training is imparted to candidates by Hindi Academy of Government of NCT of Delhi, organized from Monday-Friday.

Other Significant Information

Gandhi Study Circle: Gandhi Study Circles have been set-up to sensitize the University community at large and especially the college youth regarding Gandhian

thought and action. Gandhi Bhawan took the initiative to construct a network of Gandhi Study Circles in different colleges of Delhi University to have immediate interaction with the college youth. These Study Circles organize various academic and action-oriented programmes to imbibe Gandhian values in the young minds. Gandhi Bhawan extends a very modest amount of Rs. 10,000/- to support the organization of these programmes, These Gandhi Study Circles get full patronage and allied logistic support from the respective college Principals. As on date 56 colleges have so far enrolled as Gandhi Study Circles. Students and these colleges are directly involved in various activities of Gandhi Study Circles.

GARDEN COMMITTEE

Major Activities and Achievements

Vriksharopan 2021: plantation of native shrubs at various sites of North campus and colleges of the University of Delhi

A series of native tree and large, medium & small shrub-planting events involving 4467 saplings from diverse taxonomic plant families was conducted in August - October 2021 to enhance and rejuvenate green spaces. High quality saplings were gifted to the University Garden committee by alumni from Tata Power-DDL Ltd., and saplings raised by 'malis' of the University Garden committee were also used. This green endeavor to educate stakeholders about the essential role of plants for healthy ecosystems was initiated in 2018 with monsoon plantations. In 2021 Vriksharopan activities were organised with strict adherence to norms stipulated by the Government and University for safety precautions related to the pandemic and ensuing lock-downs.

At least fourteen colleges of the University participated in the Vriksharopan 2021 Vriksharopan 2021plantation of native shrubs at various sites of North campus and colleges of the University of Delhi

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and University for safety precautions related to the pandemic and ensuing lock-downs.

At least fourteen colleges of the University participated in the Vriksharopan 2021 drive with tree and shrub species like 'Belpatra/Bael (Aegle marmelos), 'Gulmohar' (Delonix regia), 'Mango' (Mangifera indica), Amla (Phyllanthus emblica), 'Java plum' (Syzygium cumini), 'Karonda' (Carissa carandas). Enthusiastic participation was appreciated from Vivekananda College, Lakshmibai College, Zakir Husain College, Aditi Mahavidyalaya, Miranda House, Shivaji College, Shyama Prasad Mukherjee College, Lady Irwin College, Department of Botany (D. U.), Gargi College, Deen Dayal Upadhyay, Jesus & Mary College and Moti Lal Nehru College at the helm of plantation activities.



Development/renovation and maintenance of new Lawns and Gardens

A grove near Vice-Chancellor's Office which is named after the first Vice-Chancellor of University of Delhi Dr. Hari Singh Gour was developed and inaugurated on 15th August, 2021.

Substantial efforts were made to maintain green spaces for the University and local communities, remove and control weedy overgrowths that occurred at some sites due to pandemic-related lock down period.

Facilities

The 'malis' and staff of the University Garden Committee provided support in Decoration and Flower arrangements at Convocation Day, and various official functions/activities of the University. Due precautions and safety guidelines were followed in the current pandemic related scenario.

Other Significant Information

64th Annual Flower Show – 2022:- The 64th Annual Flower Show of the University of Delhi, based on the theme "Floral diversity and rejuvenation" (पुष्प विविधता एवं पुनर्युविकरण) was held on the 4th March, 2022 at the Mughal Garden (opposite the Vice-Regal lodge), North Campus, University of Delhi. The event

was inaugurated by Hon'ble Om Prakash Kohli, Former Governor of Gujarat, in the presence of Prof. Yogesh Singh Hon'ble Vice-Chancellor, University of Delhi; Dr. Vikas Gupta, the Registrar; Prof. Balaram Pani, the Dean of Colleges; Prof. Shri Prakash Singh Director of South Campus and other dignitaries of the University and beyond. The University Garden was resplendent with floral exhibits, succulents, cacti, foliage plants, bonsais etc that reflected the colours and diversity of spring blossoms and greenery. A number of participants (individual and institutions) competed in virtual photography and videography competitions, time-lapse rangoli and flower arrangements, celebrating the multi-hued splendour of flowers and foliage. The Flower Show was available on live webcast at www.du.ac.in. Rolling shields, cups and trophies were awarded to various colleges, hostels/halls, schools and institutions that competed in 35 categories of potted plants, lawns & gardens. A special feature was the award of "Garden Bandhu" to the Bio-diversity Parks of Delhi Development Authority at Center for Environmental Management of Degraded Ecosystems, as the largest conservation outreach program of University of Delhi. The stupendous efforts of University gardeners (malis) were recognized and Best Malis were felicitated for their outstanding service towards upkeep of gardens. The virtual/hybrid Flower Show was opened to a large throng of enthusiastic visitors in the afternoon.

INTERNATIONAL GUEST HOUSE

Major Activities and Achievements

Special Catering arrangements were made to Four Hundred Eight One Booking requests received for Selection Committees Meeting, Academic & Executive Council Meeting, Court Meeting, Finance Committee Meetings, Flower Show, Convocation, Conferences and all other Official Meeting during the said period.

During The period Two Hundred Eighty-Eight Guest room bookings entertained for accomandation and messing. All the guests are satisfied from the services provided and behaviour of the staff of I.G.H.

Facilities

Procurement of two MEGA MP80U Portable PA System with two external speaker option to enable guests to held online meetings.

Installation of P.N.G. Gas Pipeline.

Termite & Paste Control Treatment of the entire building.

Procurement of Eighteen 1.5-ton Window Air Conditioners for Guest Rooms.

Procurement of one 43 INCH Smart TV for Lounge.



Procurement of One Touchless hand sanitizer machine to follow COVID-19 Guidelines.
Repair & Polishing work of the entire 1st, 2nd & 3rd floor guets rooms wooden furniture.
Repair & Replacement of the entire 1st, 2nd & 3rd floor guets rooms sanitary fittings.
White Wash entire 1st, 2nd & 3rd floor of the building.
Repair & Replacement of the entire 1st, 2nd & 3rd floor anluminium ventilations gaskit.
Procurement of One Projector to provide facility of online meetings to guests. .
Procurement of Three Refrigerators for Guest Rooms.

Procurement of Three Geysers for Guest Rooms.
Procurement of Eighteen Mattress for Guest Rooms.
Making of One Granite Almirah in Room No. 204D.
Repair & Replacement of the defective electric switch boards and lights of the entire 1st, 2nd & 3rd floor of the building.
Repair the canopy of 200KVA Genset to provide new lease of life.
Procurement of all other items related to smooth functioning and provide comfort to guests.

NATIONAL CADET CORPS

Major Activities and Achievements

The enrolments of NCC Cadets in Senior Wing and Senior Division in the colleges of the University of Delhi were conducted by the college NCC units individually. NCC cadets actively participated in various University level activities like University Convocation, Road Safety Programme, Republic Day, Independence Day and Constitution Day.

NCC cadets also actively participated in Fit India Campaign, International Day of Yoga, Swachh Bharat Abhiyaan, Ekta Diwas, Tree Plantation, Ek Bharat Shrestha Bharat Camp. The Combined Annual Training Camp, Special National Integration Camp,

Pre-Republic Day Camps, Republic Day Camp, CM Rally, PM Rally, Amar Jawan Jyoti etc. were organized by NCC Directorate Delhi through hybrid mode and day camps. The NCC Units in the colleges organized seminars and webinars on issues of concern for awareness among cadets as well as for the community.

Four Caretake Officers attended the PRCN Course and were commissioned as ANOs in this academic session. A committee was constituted for formulating the syllabi of NCC General Elective Credit Course keeping in view the NEP UGCF 2022.

NATIONAL SERVICE SCHEME

Major Activities and Achievements

NSS Centre, University of Delhi organized events and activities as per guidelines of the Ministry of Youth Affairs and Sports in the session 2021-22. It has also been working with other Ministries in spreading awareness on many social issues as well as in disseminating information provided by the Government. The Centre has coordinated a number of activities in its 66 NSS Units spread over in the Colleges and Departments of the University. The

International Day of Yoga on 21 June 2021; Swachhta Pakhwara from 1-15 August 2021; Fit India Freedom

Run on 13 August and 2 Oct. 2021; Clean India Campaign from 1 October to 31 Oct. 2021; National

Unity Day on 31 Oct. 2021; Celebration of Constitution Day on 26 November 2021; Ganga Utsav on 1 November 2021; Republic Day Parade Camp 2022 from 1 January to 31 January 2022; National Youth Festival from 12-16 January 2022; Surya



Namaskar on 14 January 2022; National Girl Child Day on 24 January 2022; National Youth Parliament Festival on 10 and 11 March 2022; are a few activities coordinated by the NSS Centre in the session 2021-2022. NSS Volunteers from various colleges also

participated in the Centrally Organized Activities organised by the NSS Centre.

NON-COLLEGIATE WOMEN'S EDUCATION BOARD

Major Activities and Achievements

The admission process has been completely online. Registration as well as the admission form was filled through online process. A separate Grievance Addressal mechanism was introduced for NCWEB students. 100% seats were filled under SC category in

UG Admissions. As per the directive of Govt. of India the seats were enhanced by 25% due to implementation of EWS reservations. Integration with CBSE was successfully achieved for the online verification of candidates' marks and other particulars.

Facilities

During the Covid -19, NCWEB provided the E-resources links and soft copy of study material given by the guest faculty to the students at various NCWEB centres.

Financial aids of Rs. 3000/- was provided to 650 needy and deserving students during the year 2021-22

Three students of the board were provided Rashtriya SVF Tejaswani fellowship (Rs. 3000/-) sponsored by Shanti Tatha Vidya foundation.

Other Significant Information

COVID 19 – Teaching and Learning at NCWEB Institutional e-mail id were created for the NCWEB Guest Faculty to take online classes.

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

Various online academic and cultural activities like poetry recitation, essay writing and many more were organized by the study centres for the NCWEB students.

The Board organized 07 days "Creative Writing Workshop" in Hindi & English for 160 NCWEB students on virtual platform from 13th April, 2021 to

26th June 2021. Resource person were engaged in organizing the workshop.

NCWEB centers started Environment/Paryavaran Club to sensitize and propagate environment concern among the students through the various activities. 'World Environment Day' was celebrated at NCWEB Centres on 5th June 2021.

The 7th International Yoga Day was celebrated at NCWEB Centres on 21st June 2021 via online/offline mode.

NCWEB organized online competition keeping environment as a concern -Best out of plastic waste, Speech Competition, Slogan Competition, Self-Composed Poem Competition, Poster Making Competition on the occasion of "ONE WEEK FOR NATION" "स्वतन्त्रता का अमृत महोत्सव- एक सप्ताह राष्ट्र के नाम" (15 AUGUST 2021 - 22 AUGUST 2021) and Final prize distribution program was organised on 27th August, 2021.

The Board in collaboration with the National Commission for Women organised CAPACITY BUILDING & PERSONALITY DEVELOPMENT PROGRAMME (PDP) from 17th November, 2021 to 13th December, 2021. A total 8026 students and 41 Resource persons from academics/ industry participated & interacted with each other.

The Board in collaboration with "पर्यावरण संरक्षण गतिविधि" on the occasion of National Youth Day- Birth Anniversary of Swami Vivekananda, organised Level 1 competition between 16th January-21st January 2022 .

On the occasion of the International Women's Day a Self composed Poem recitation competition was organised for its under-graduate and postgraduate students on 14th March 2022 at the Conference Centre, University of Delhi. An e-booklet of the poems was published. The Chairperson of National Commission for Women, Smt. Rekha Sharma was the chief guest and the program was presided over by



the hon'ble Vice-Chancellor Prof. Yogesh Singh. NCWEB is constantly working towards empowering

women through education and is committed towards the holistic development of their students.

STUDENTS' WELFARE OFFICE

Major Activities and Achievements

The office of Dean Students Welfare, University of Delhi is committed to fostering welfare activities for the holistic and all-round development of students. In the academic year 2021 – 2022, the office has embarked on conducting below mentioned activities.

Placement & Internship: - The Central Placement Cell (CPC) acts as an interface between industry and

academia. It continuously organizes various recruitment drives, Internship and capacity building as well as skill enhancement sessions for the students of our esteemed University.

In the academic session 2021-2022, CPC facilitated online and offline recruitment of companies from various sectors such as IT, Infrastructure, Education and Sports. Some of the companies participating this year in the recruitment drives were Agnext Technology Private Limited, JCO Gas Pipe Limited, Back Benchers, Experts' Global Training Services, Amazon India, Burger Singh Bird Worldwide Flight Services (India) Pvt. Ltd, CourseLeap Education etc.

The Central Placement Cell was also instrumental in providing paid and unpaid internship opportunities to the students per their requirements. The year 2021-2022 was historical for the Central Placement Cell as it organised Job Mela from 7th April to 9th April 2022

and the response of the students as well as companies in this job mela was spectacular.

Grievance Redressal: - The office of Dean Students welfare is committed towards the holistic development of society and for that the office continuously strives to embark on the path of welfare and social justice. The office of Dean Students welfare believes in social, mental and career counselling of the students. It also works effectively to redress the grievances of the students. Counselling Sessions- Along with these functions the office of Dean Students' Welfare organizes several awareness campaigns to make students aware about their rights, duties and responsibilities. In line of these objective DSW office had observed Anti- Terrorism Day on 21st May 2021 and World No Tobacco Day on 31st May 2021 respectively. These programmes were held in the online mode and reports of the programmes were shared by the concerned ministry under the Government of India. Before the Job Mela, the Central Placement Cell had organised an online orientation cum counselling session on Saturday 26th March 2022 from 2 pm to 5 pm on CV writing and Time Management which was attended by stakeholders quite enthusiastically.

Other Significant Information

Job Mela Placement activities

UNIVERSITY GUEST HOUSE

Major Activities and Achievements

The University Guest House caters to the needs of major academic meetings by way providing accommodation and meals. It is also a venue for meetings. A number of examiners and visiting scientist are provided hospitality.

Major renovation work is in progress in University Guest House.

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. University Guest House provides free internet and Wi-Fi facility to the room guests. University Guest House has a kitchen to provide safe, healthy, hygienic

and delicious food. University Guest House has a clean and spacious dining hall with the sitting capacity of 35-40 persons. Guest House has a Lounge with mike and projector facility for meetings, get-togethers with the sitting capacity of 70-80 persons. University Guest House also has a small committee room for meetings around 10-12 persons.

Other Significant Information

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

WORLD UNIVERSITY SERVICE (WUS) HEALTH CENTRE

Major Activities and Achievements

Provided emergency health services during Tournaments.

Advisories uploaded on Delhi University and Health Centre websites : 1. World Health Day 2021 Theme : Building a Fairer, Healthier World, 2. Air Pollution, 3. Healthy Heart Beat : Healthy Blood Pressure, Control your Blood Pressure : Control your life, 4. Post-COVID-19 Respiratory Management, 5. Dietary advice during COVID – 19 Pandemic, 6. Coronavirus-Advisory for people with disabilities, 7. Antimicrobial Resistance: No Action Today, No Cure Tomorrow, 8. World Heart Day 2021 Theme: Harnessing the power of Digital Health to improve Awareness, Prevention and Management of Cardiovascular disease (CVD) globally, 9. Women in Reproductive Age Group - COVID 19 Infection, Vaccination & The Myths.

Even though COVID – 19 pandemic was in full surge still W.U.S. Health Centre (North Campus) was functional 24 x 7 hours. Telephonic consultation and Tele counseling facilities were provided.

Covaxin, Covishield and Corbevax Vaccines have been made available in W.U.S. Health Centres under the dynamic, astute & Visionary leadership, Camaraderie spirit and Team approach of our beloved Vice-Chancellor Senior Prof. Dr. Yogesh Singh.

Health check up camps, Cardiac check up camps, Diabetes control camps were organized.

Honours/Distinctions

Following Doctors of W.U.S. Health Centres were given Health Care Warrior Awards: Dr. Sunil Thakur, Dr. Sheela Jaiswal, Dr. S.S. Dugtal, Dr. T.K. Chumbak

Facilities

W.U.S. Health Centre (North Campus): Neurology (once per week), Psychiatry (once per week)

Cardiology (thrice per week), Orthopaedics (five days per week), E.N.T. (five days per week), Pediatrics (four days per week), Dermatology (four days per week), Ophthalmology (thrice per week), Ayurveda and Naturopathy Services (six days per week), Dental

(three hours, six days per week), Physiotherapy Services, Clinico-Pathology Laboratory, Dressing Services, Medical Store, Pharmacy Services, Nursing Station, Ambulance Services

W.U.S. Health Centre (South Campus): Cardiology (thrice per week), Ophthalmology (thrice per week), Dental (thrice per week), Physiotherapy Services, Dressing Services, Medical Store, Pharmacy, Nursing Station, Ambulance Services

Other Significant Information

Total OPD Footfall, W.U.S. Health Centre (North Campus) : 65,905

Total Clinical Services, W.U.S. Health Centre (North



Campus) : 38,322
New members enrolled, W.U.S. Health Centre (North Campus) : 1,619
Total OPD Footfall, W.U.S. Health Centre (South Campus) : 9,346
Total Clinical Services, W.U.S. Health Centre (South Campus) : 1,865
Total OPD Footfall, W.U.S. Health Centre (East Delhi) : 2,643;

Total Clinical Services, W.U.S. Health Centre (East Delhi) : 209;

Total OPD Footfall, W.U.S. Health Centre (West Delhi) : 5,155

Total Clinical Services, W.U.S. Health Centre (West Delhi) : 1,209



University Hostels/Halls of Residence

Ambedkar-Ganguly Students' House For Women

Major Activities and Achievements

Ambedkar-Ganguly Students' House for Women was started in October 2003. It is by and large a self-sustaining residence for post-graduate women students of University of Delhi. It can accommodate up to hundred residents and two guest residents. For the academic session 2021-22, the readmission process was started in 1st week of August 2021 and 7 bonafide residents & 24 guest residents were admitted till 31.03.2022.

On 15th August, Independence Day was celebrated by hoisting the National Flag, followed by the singing of the National Anthem. This event was attended by the Resident Tutor, Warden, all the staff and the residents of Ambedkar Ganguly Students' House for Women. It was followed by the distribution of sweets. Further, the day was celebrated with plantation of Neem and Gulmohar tree within the hostel premises.

On 2nd October, Gandhi Jayanti was celebrated with great enthusiasm. This was followed by the series of various programmes.

Number of PG Students

18

Number of M Phil/Ph.D. Students

13

Best Practices

The Provost of the hostel, Prof. Chirashree Ghosh from the Department of Environment Studies, on the occasion of Gandhi Jayanti introduced the participants of the programme and talked about the life and values of the Father of Nation. Further, she talked about the importance of a clean environment, how we can keep our environment clean.

As resident staff (especially students and security personnel) were more concerned and panicked about the regular encountering of snakes within the hostel complex, an awareness lecture on the same was conducted by Mr. Gaurav Barhodiya, from Department of Environment Studies, DU regarding the variety and types of snakes found in the region of Delhi and explained how snakes contribute to the ecology and environment. He has also trained the staff of the Hostel to identify venomous and non-venomous snakes present within the Dhaka complex to restrict killing and also talked on myths about snakes and first aid for snake bites.

Mr. Parveen Mishra, from Harit Agro, NGO also invited to give an overview of kitchen and green waste management. He delivered a talk on the importance of waste management, the need for composting and also some of the popular methods of kitchen gardening. The programme was conducted with great detail with the demonstration of how to create compost and how to do plantation. In follow-up, staff has shown their own enthusiasm by growing vegetables (cauliflower, spinach, radish and coriander) on their own using their own compost within hostel complex.

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 equipments), 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 resident's rooms along with common areas, Extensive lawns for morning and evening walk, Badminton court, CCTV surveillance.



Other Significant Information

Hostel Administration: Prof. Chirashree Ghosh from the Department of Environment Studies and Dr. Shruti Rai from the Department of Sanskrit had taken the charge as Provost and Warden of the hostel w.e.f. 01.04.2021 for two years.

Preventive measures were undertaken during Covid-19 pandemic period, the hostel during this time period of the pandemic following specific preventive measures had taken for the safety and security of the hostel residents and staff:

A virtual session by Dr. Krishan Gola (Panel Physician of DU), who interacted with residents and briefed them about Covid-19 preventions and primary precautions.

For the student's convenience, thermometers and one oximeter were purchased during the period 2021-22.

Creation of an isolation facility in the medical room of the hostel.

Regular fogging and sanitization of the hostel premises.

Followed the Covid-19 guidelines issued by the University of Delhi time to time.

Events

The function of Lohri was celebrated on 13th January 2022 by lighting a bonfire and all the students gave Aahuti on the bonfire. On 17th March 2022, Holi (festival of colours) was celebrated with colours and Sweets were distributed among staff and students. While Republic Day was celebrated by hoisting the National Flag, singing the National anthem and distributing sweets & snacks among the residents and staff.

During the reporting period, many other cultural & academic activities were not held due to the Covid-19 pandemic.

Aravali Post Graduate Men's Hostel

Brief History

Aravali Post Graduate Men's Hostel was established in 2005 by University of Delhi, South Campus to accommodate 74 students on single occupancy basis for the bonafide Research Scholars and Post Graduate students of the University of Delhi, South Campus.

Major Activities and Achievements

In order to simplify the admission process in the Aravali Hostel adopted the online admission and fee payment system in the current admission session. Every room is equipped with a Bed, Mattress, Study Table, Study Chair, Curtains, led light, fan, Easy chair and a white Laminated Board. Hostel has a double occupancy Guest Room equipped with the Air Conditioner and Heat Convector, as well as a Utility Room with the Desert Cooler.

Hostel celebrated the Republic Day and the Independence Day with high students' participation.

Facilities

Hostel has the Common Room which has been equipped with high-definition TV set along with the D2h service. The hostel also has a Reading room with the Dozens of Newspapers and Magazines as well as excellent Sports facilities for indoor Games like Table Tennis, Chess and Carom etc. Wi-Fi facility for smoother and faster internet service to the residents has been provided. Laundry facility is also made available to the residents.

In order to control the spread of Covid-19 virus the hostel has installed Automatic sanitizing machine and prepared isolation room. RO's waste water is used for gardening. Hostel provides security 27-7 to residents and Parking



facility with Guard. Aravali hostel has also maintained lush greens, beautiful landscape, around the hostel.

Centre Institute of Education Hostel

Brief History

The Central Institute of Education has two hostels. Shree Bhawan for Women and Shakti Bhawan for men established in 1950. Shree Bhawan has 08 rooms for 23 female students and Shakti Bhawan has 03 dormitories and one 02-seater room accommodating 24 male students. The hostel accommodates students from B.Ed., M.Ed., M. Phil and Ph.D. Programme.

Major Activities and Achievements

We made all necessary arrangements to ensure the safety and security of the residents by following Covid Appropriate behaviour during their stay in the Hostel. Due to delay admission in the Hostel and after online education mode, residents are facing so many problems related to their adjustment offline education environment. For that we also arranged weekly counselling/discussion sessions for the residents to resolve their immediate issues regarding Hostel & their courses of study. We celebrate all cultural festivals in hostel keeping in view the diversity of the residents.

Number of PG Students

37

Number of M Phil/Ph.D. Students

02

Best Practices

In our Hostel we constituted Mess Committee to monitor the quality of the food and prepare menu in consultation with Warden/Resident Tutor. Every month new mess committee is formed to give exposure to all the residents including from each course of study. This inculcates a sense of belongingness and responsibility among themselves.

Facilities

There is a visitor's room in the Hostel with TV and reading facilities. Apart from general books stacked on the reading shelves, magazines and newspaper facilities on regular basis are also available for the residents. Sports facility is also provided to the residents of the hostel. There are three R.O Water Purifier connected with the Water Cooler installed in the Hostel, to provide safe drinking water.

D.S. Kothari Hostel

Major Activities and Achievements

All the National Day and Festivals were celebrated to familiarize the residents with the Culture of National and International Students. The hostel celebrates Annual Function and Fresher's Function every year. Due to Covid-19, the Annual Function couldn't be held this year. a Desktop Computer System i5 generation and accessories of System for office use.

Notification displayed on website for new admission (on guest basis).

Updating of website will be done in 2 months.

Number of UG Students

01

Number of PG Students

06

Number of M Phil/Ph.D. Students

08



Facilities

Common Room, T.V. Room, Mess, Laundry System, Computer Room, Union Room-Cum-Reading Room, Gym Room, Guest Room, First

Aid Box, PwD Freindly Resources, Security with CCTV Camera.

Geetanjali Hostel

Major Activities and Achievements

Regular managing Committee meetings were held in online mode to apprise our members of the decisions being taken by the hostel in these durations. Importantly, only provisional admission was given in this period. Regular admission procedures will only be initiated with the new batch of 2022.

In the period from 1st April 2021 to 31st March 2022, the hostel provided provisional admission to many students. These included students from various departments particularly the life sciences department where dissertations were carried out. The hostel grew back to its usual strength. With frequent checks and monitoring of the sanitation and health of staff and students, the hostel did not see any outbreak of COVID in its facility. Overall the hostel successfully provided a safe-house for many residents during their exams, dissertation and classes. 15th August 2021 and 26th January 2022 was celebrated in the hostel with participation from the staff and residents. Other festivals were celebrated with special dinner/lunch and sweets for the girls

Number of PG Students

51

Number of M Phil/Ph.D. Students

37

Best Practices

Th hostel is secure with sufficient lighting on the premises and four CCTV cameras at relevant areas. Four security guards are shuffled duties to maximize their efficiency. The hostel has posters on anti-ragging, anti-substance abuse and ethical eating habits in the mess. Sanitization of the premises of the hostel is done on a regular basis. Anti-mosquito repellent spray is used frequently. Hand sanitizer dispensers have been fixed on the walls for visitors and staff. Residents are provided sanitizers in the washrooms. Maintenance of the surroundings of the hostel is also required frequently because of small pests and snakes.

Facilities

Well-equipped gym and sport equipment
Television in common room
Music system with speaker
Computer and reading room
Sanitary Pad dispensing machine
Library with some books for general reading
Refrigerators
Induction cook top for each floor
Microwave
Washing machines

Other Significant Information

The number of students is given as in March 2022.



International Student's House

Brief History

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. Because of its international nature, ISH occupies a special position in the hostel system of Delhi University.

Major Activities and Achievements

The ISH has worked tirelessly to deal with challenges and to meet the requirements of ISH staff, students and all the stakeholders. Given the rapidly changing nature of the situation, the ISH assured the community that we will continue to step up our efforts as we navigate through emerging challenges. Our response evolves almost on a daily basis to meet the needs of the ISH fraternity. We continue to focus on the safety and well-being of our community. The ISH has worked tirelessly to deal with challenges and to meet the requirements of ISH staff, students and all the stakeholders.

Number of UG Students

5

Number of PG Students

32

Number of M Phil/Ph.D. Students

17

Best Practices

In the wake of the COVID-19 pandemic, a vaccination campaign was encouraged for all resident students and ensured that all are vaccinated at the university campus.

The guidelines issued by the University from time to time for reopening the hostel in a phased manner were strictly followed along with the protective measures of COVID-19 norms.

The ISH has reassured the students that there will be no academic disadvantage to any student as a result of these changes.

Facilities

Common Room: Spacious common room is provided, which has a place for constructive activities like indoor games, discussions and get together within the hostel. The common room is equipped with a big screen TV set with cable connection from Tata Sky. The hostel provides the students with daily newspapers and various magazines to make them aware of the daily happenings in the world.

Computer Room: The computers with internet facility are available for all residents. The computer connected to the University network can be accessed for academic pursuits.

Reading Room: ISH has an air-conditioned reading room for the study purpose for its residents.

Washing Room: The ISH has semi-automatic washing machines which are being used by the residents regularly.

Canteen: A canteen also runs in the hostel premises for refreshment to the resident and their guests in addition to House mess.

Gymnasium: ISH has a gym with a number of equipments such as treadmill, home gym cycle, weights etc., which help the residents to exercise and keep themselves fit & healthy.

Guest Room: A guest room is available only to the parents and the sister if accompanied by parents of the regular residents.

Sports: The house provides facilities for indoor as well as outdoor games like Carrom, Chess, Badminton, Table Tennis, Cricket, Football etc. ISH has a large playing ground as well.



WI-Fi: The house also provides 24/7 Internet Access with Wi-Fi facility to its residents.

Telephone: Intercom facility is available in all rooms so that one can connect from individual room. The incoming call facility is also available so that parents and local guardians can be in regular touch with the residents.

Security/CCTV: The hostel campus is CCTV-enabled to cater the safety requirements. Security Guards are available on the gates round the clock to provide a secure environment to its residents.

Geysers: The basic need of hot water is very important for all the students' especially in winter; the house provides Geysers in each bathroom for hot water supply in the winter.

Water Cooler: The house has two Water Coolers attached with R.O. water purifiers to provide safe and pure drinking water round the clock. These water purifiers are routinely checked and cleaned in the supervision of office staff and students.

Gwyer Hall

Brief History

Gwyer Hall is the oldest & prestigious men's Post Graduate Hostel of the University of Delhi. This is unique distinctive feature of 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 step to ensure that the spirit and rich heritage that have survived over the years of its existence continues to flourish.

Major Activities and Achievements

Eighteen M. Phil & Ph.D. students and 34 Post graduate students passed out during this period. Hostel had celebrated Ambedkar Jayanti, Holi, Diwali, New Year, Lohari, Saraswati Puja etc. Gwyer Hall won first prize on 64th Annual Flower Show 2022 along with the Kalicharan Award-I and Kalicharan Award – III. Along and seven other awards in the various category.

Gwyer Hall has organized following online lecture series & webinar:

ऑनलाइन समारोह - विषय – “भारतीय संस्कृति के प्रतीक हमारे पर्व”, 13 अप्रैल 2021.

Online Public talk on 14th April 2021
“Philosopher Beyond Caste: Revisiting the legacy of Dr. B. R. Ambedkar.

Committees

Disciplinary Committees for Holi Festival.
Purchase Committee consisting of following members.
Anti-Sexual Harassment Committee.
Anti-Smoking & Anti Substance Abuse Drugs Committee.
Anti-Ragging & Disciplinary Committee.
North Eastern Students.
Disciplinary Committee.
Mess Upgradation Committee.

Seminar Committee

The following committee has been constituted to Seminar Committee:
Mr. Martand M. Mishra,
Mr. Sparsh Singh
Mr. Japandeep Singh B.

Facilities

Air-conditioned Computer room, common room, reading room.
Purified drinking water for all the residents.
Free Washing machines facilities for residents
PwD facilities.
On-line gas connections installed in the kitchen.
New ceiling fans were installed in the rooms.
Upgraded Badminton court.
Staff quarter renovated.



Other Significant Information

The Gwyer Hall received the Vice-Chancellor's Cup for the highest marks in the 64th Annual Flower show 2022.

Gwyer hall also received the following awards in the flower show:

The Vice-Chancellor's Cup for the highest marks in the show (Kalicharan Award-I (Rs. 7000/-).

The Diamond Jubilee Cup for the highest aggregate in Category A.

The Delhi School of Economics Cup for the highest aggregate marks in potted plants under Category A, Class I.

The Lady Irwin College Cup for the highest aggregate marks in Foliage Plants under Category C, Class IV.

The University Architect's Cup for the best exhibits of Foilage Plants under Category C, Class IV.

The Dr. N.S. Pradhan Cup for the best exhibits of Crotons under Category C, Class IV, Section 7.

The Kalindi College Trophy for the best hanging basket under Category C, Class XII.

International Students House for Women

Major Activities and Achievements

International Students' House for Women (ISHW) is located in the Dhaka Complex of the North Campus of the University. It came into existence around 20 years ago. Established on June 3, 2002 the multicultural character of the International Students' House for Women is central to all the activities organized by the House. Residents from more than 34 countries jointly celebrate their cultural festivals and important national occasions in the spirit of harmony and friendship. A number of programmes were organized in the House in the past one year, the detailed account of which is given below:

During celebration activities, House followed all the protocol and guidelines of COVID-19.

The session began with Easter festival 04-04-2021, Id-ul-Fitr 14-05-2021, Africa Day 25-05-2021 and Id-UI-Zuha 21-07-2021. Yoga day was celebrated on 21-06-2021.

Other events celebrated over the year were Independence Day 15-08-2021 which generated feelings of patriotism among the students and staff, celebrated with flag

hoisting, sweets and special breakfast. A day before Diwali 04-11-2021 the House decorated with lights. A formal party replete with lights and Diyas was followed by a lavish dinner, most of the residents wore traditional Indian outfits and enjoyed the festivities. Christmas 25-12-2021, New Year 31-12-2021, Republic Day 26-01-2022 were also celebrated. ISHW won the best Mali Award in Annual Flower Show 04-03-2022.

Holi 18-03-2022 was celebrated with a splash of colours. A Farewell Party was held for the outgoing residents on 02-06-2022 who relived and narrated the wonderful time they had spent in the House.

Number of UG Students

26

Number of PG Students

Foreigners: 43

Indians: 08

Number of M Phil/Ph.D. Students

Foreigners: 19

Indians: 02



Committees

No new Committees were formed in the session 2021-22 owing to COVID-19 pandemic. For the smooth functioning of the House all previous committees were continued 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

Facilities ISHW has various facilities for its student residents namely:

98 well-furnished rooms containing a single bed, almirah, mattress, curtain, study table, chair etc.

The whole house campus is CCTV – enabled to provide a secure environment to its residents. 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 and solar system. The House provides wi-fi facility to its residents. Entire House 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 and two fridges one for vegetarian residents and another for non-vegetarian residents on all the four floors.

Washing of clothes of all the residents is done by our laundry attendant in the laundry room which consists of five fully automatic washing machines situated on the ground floor. Separate ironing room is also available on the 1st - 3rd floor of ISHW.

Complete Gymnasium on the 3rd floor with modern equipment.

Fully air-conditioned dining hall on the ground floor.

Failure / breakdown of electricity, Genset facility is provided in the entire complex of the ISHW.

24x7 security is provided to the students.

First Aid kit is available. Residents are members of WUS Health Centre, (DU).

Other Significant Information

To enrich the House life for not only the students but also the House staff, regular interaction of the House authorities with the staff and students is ensured.

Jubilee Hall

Major Activities and Achievements

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 by keeping in view the guidelines issued by the competent authority due COVID-19.

Number of PG Students

28

Number of M Phil/Ph.D. Students

50

Facilities

Common Room equipped with TV, Table Tennis, Carrom Board, News Papers etc., reading room, washing machines, water coolers and geysers facilities are being provided to residents of the Hall



Mansarovar Hostel

Major Activities and Achievements

On the occasion of Independence Day and Republic Day the Provost, Prof. Sevi Murugavel unfurled the flag. All the hostel residents, staff and guests were present. The festivals like Dusshera, Diwali, Holi, Eid, Saraswati Puja, Christmas, Gandhi Jayanti and Ambedkar Jayanti were also celebrated in the hostel premises.

The hostel Residents' Union has organized fresher party and New Year.

The residents of the hostel participated in various out-door and indoor games during the year.

Number of PG Students

07

Number of M Phil/Ph.D. Students

23

Facilities

Dining Hall: The Dining Hall serves quality vegetarian and Non-vegetarian food for its resident members. Guests and others may have meals after buying coupons for the purpose.

Reading Room: A well-lit furnished AC room provides good space for studying/reading.

Computer/ Internet Room The computer with internet facility is available for all bonafide residents. The computer connected to the University network can be accessed for academic pursuits.

Common Room: The common room is equipped with a big screen TV set with cable connection.

News Paper Room: Newspapers and magazines are available for the residents.

Gymnasium: A gymnasium on the top floor is equipped with several modern machines,

which help the residents to exercise and keep themselves fit & healthy.

Guest Room: The hostel has one furnished guest room. The room is available for the parents and immediate family members of the residents, visiting Scholars and researchers. The room must be booked in advance through the Hostel office on payment of the rent as per rules. The check-out timing from the Guest room will be before 12'o clock (Noon).

Visitor's Room: The hostel has one furnished Visitor's room.

Cafeteria: The Mansarowar Hostel cafeteria is run by a contractor where food and beverages are served at reasonable rates approved by hostel authority. The cafe is open seven days of the week from morning until late evening.

Laundry the Hall has semi-automatic washing machines in all washrooms for use by the residents.

Telephone/Fax/Photostat: A shop within the hostel premises provides all kind of daily uses stationary/ printout/scanning/ lamination and photocopying services.

Generator Room: The hostel has a generator facility which used in an emergency.

Health Centre: The residents of the hostel get an opportunity to be enrolled as members of the world university service (WUS) health centre maintained by the University of Delhi. WUS provides facility to all types of basic as well as emergency health treatment at a negligible cost.

Other Significant Information

Mansarowar Hostel is a Men's Hall of residence for full -time post-graduate and research students having capacity to accommodate 163 residents coming from various parts of India



and abroad for higher studies in University of Delhi.

Meghdoot Hostel

Brief History

The Meghdoot Hostel accommodates full time post-graduate/research women students of the north campus of University of Delhi. The foundation stone was laid on 26th August 1989 by the then Vice Chancellor Prof. Moonish Raza and was inaugurated by then Dean of Colleges, Dr. S.S. Rana on 23rd Sept 1992.

The hostel is having capacity for 100 residents. It has two blocks with 100 rooms. It is situated opposite to School of Open Learning (SOL) on G.C. Narang Marg. The internal administration and discipline of the hostel are vested in the Provost of the hostel.

The Provost is the administrative Head of the Hostel. For internal administration, she is assisted by the Warden. There is also a Resident Tutor who looks after extra curricular and cultural activities among the residents and their general welfare. The Provost, Warden and the Resident Tutor are appointed by the Executive Council of the University from amongst University faculty members.

Major Activities and Achievements

The Meghdoot Hostel observed a number of activities and enthusiastic innovations in the academic year 2021-22. some of them are listed as follows:

Celebration of Environmental and Yoga Day on 21.06.2021: This day was celebrated on Yoga day by residents simultaneously plantation of

trees done by residents, Provost Mam, Warden and Resident Tutor.

Celebration of Independence Day on 15.08.2021.

Dussehra Celebration on 15.10.2021.

Celebration of Diwali on 04.11.2021.

Republic Day Celebration on 26.01.2022.

Saraswati Pooja on the occasion of Basant Panchmi celebrated on 05.02.2022.

64th Annual Flower Show, 2022 Meghdoot Hostel participated in the 64th Annual Flower show on 3rd March 2022.

Holi Celebration: Holika dahan was celebrated by performing a Havan with a purpose to clarifying the environment and spread traditional values of the auspicious day among the folks.

All celebrations were performed with full care of Covid guidelines by Delhi University and MHA.

Number of PG Students

24

Number of M Phil/Ph.D. Students

21

Facilities

TV/Common Room, Computer Lab, Dining Hall, Laundry Room, Security Guard, First Aid Facility, Medical Room and CCTV.



North Eastern Student's House for Women

Major Activities and Achievements

North Eastern Students' House for women was established in 2002. NESHW has 101 single rooms and one Air-conditioned guest room with attached bath. Out of 101 rooms, 70% of the seats are reserved for the girls from North Eastern States of the country, and 30% for the girls from rest of India.

As per the statutory requirements, 07 Committees were established in hostel 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.

Number of PG Students

Residents: 03
Guest Residents: 73

Number of M Phil/Ph.D. Students

Guest Residents: 08

Best Practices

During the year, Independence Day, Republic Day and Diwali were celebrated following the proper guidelines of Covid-19 issued by the University of Delhi.

Facilities

The hostel provides the following facilities to its residents:

- Air-conditioned Common room with LED TV and music system.
- Laundry room equipped with four fully automatic 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.
- Badminton court.
- CCTV surveillance.
- Solar Water Heater.
- Gymnasium (Cardio-vascular equipment).
- Extensive lawns for morning and evening walk.

Other Significant Information

Efforts are made to maintain as much greenery as possible in and around the hostel premises. Organic manure used is prepared by the staffs through mulching, composting. Chemical fertilizers are fully avoided.

Financial allocations and its utilization: The hostel had received Rs.19,86,240/- as financial grant from the University for the period from 01.04.2021 to 31.03.2022 and all allocated amount had been utilized by the hostel.

Post Graduate Men's Hostel

Major Activities and Achievements

Eid and "Iftar" celebrated in the month of May, 2021.
Flag hoisting ceremony was held on Independence Day (15.08.2021).
Diwali festival celebrated on 04.11.2021.
Christmas Celebrated on 25.12.2021

New Year eve celebrated in the hostel on 31.12.2021.

Lohri festival was celebrated by the hostel on 13.01.2022.

Flag hoisting ceremony was held on 26.01.2022 on account of Republic Day.



Saraswati Pooja celebrated on 05.02.2022
Holi celebrated on 18.03.2022

Number of PG Students

03

Number of M Phil/Ph.D. Students

M. Phil: 01

Ph. D: 22

Best Practices

The hostel is being sanitized from time to time as per covid guidelines and hand sanitizer, room sanitizers and manual spray machine are purchased for the sanitization of the hostel like Liquid soap, oximeters and digital thermometers.

The hostel has different committee like Mess Committee, Sports Committee and Cultural Committee of the residents of the hostel for organizing the cultural programmes and smooth functioning of the Mess of the hostel.

Regular fogging is being done to prevent mosquito breeding.

Facilities

The Hostel has significantly in terms of facilities such as TV/Common room, Air-conditioned library cum computer lab with internet with Wi-fi facilities, Gym with motorized treadmill, laundry and also semi automatic washing machines on each floor, photocopy outlet, two badminton courts and recreation hall.

Other Significant Information

The Vice-Chancellor approved a sum of Rs.5,00,000/- as a special grant for purchase of Furniture and renovation of Committee Room of the Hostel out of which a sum of Rs.4,97,115/- was spent.

Due to Covid-19 pandemic only one admission under foreign category was made on the recommendations of Foreign Students Registry, University of Delhi.

Rajiv Gandhi Hostel for Girls

Brief History

Rajiv Gandhi Hostel for Girls (RGHG) is a resident Hostel for full-time postgraduate students and research scholars of the University of Delhi. It makes provision of accommodating a large number of students from North-Eastern states of India. It is located at Dhaka Hostel Complex, Banda Bahadur Marg, Dr. Mukherjee Nagar, Delhi and is about 2 km. from North Campus. It provides a comfortable, congenial and homely environment to the residents. The Provost is the administrative head of the Hostel. For internal administration and day-to-day discipline, the Warden, Resident Tutors and Block Tutors assist the Provost.

Elegantly designed and surrounded by lawns and flower beds, the hostel has 8 blocks/clusters consisting of 394 rooms. The

common room, computer room, library and outdoor & indoor sports facility attached to it

provides moments of leisure. There is a designated well-maintained visiting area for the visitors of the residents. Apart from these, a Dining Hall is maintained hygienically for students to enjoy their meals.

Major Activities and Achievements

Hostel participated in the 64th Annual Flower Show held on 4th March, 2022 under different entries of flowers and lawns. The hostel awarded "the Dr. Ramala Bhar Cup," "The Hans Raj College Cup" and "The Dr.A.C. Janaki Amma Cup" at the event.

There are 386 rooms on twin sharing basis. The Hostel can accommodate 772 students. However, due to the COVID-19 pandemic the



hostel provided single occupancy to 350 residents to support the guidelines given by the GOI, time to time. All rooms are spacious ventilated for the comfortable stay of Hostel residents. All rooms have ceiling fans. Each resident provided with beds one built wardrobe/almirah, book rack mounted on the wall. Every room has a mirror.

Number of PG Students

175

Number of M Phil/Ph.D. Students

46

Best Practices

The Hostel ensures regular maintenance and upkeep of all facilities. Two full time Caretakers are appointed by the Hostel to ensure the cleanliness, sanitation, water supply, electricity and security to update the Hostel authorities about daily state of affairs. Great care is being taken to keep the entire place neat and tidy. It provides a comfortable, congenial and homely environment to the residents.

Facilities

The Hostel has two common rooms and one Visitor room. Television with cable is also provided. Other facilities include medical room, Reading room and Library room with AC facility, computer lab. with Wi-Fi facility, Beauty Parlour and Tuck Shop. The hostel also has the facility of 'quarantine rooms' to support the COVID-19 positive residents or their close contacts. Store room is in each cluster is available to keep luggage at the time of vacating hostel. Induction plate is available at each floor of every Cluster. Water Coolers with R.O. units are installed. 4 Dispensers are also available for drinking water for the residents. Round the clock security is provided. The Hostel premises are secured with CCTV Cameras at strategic points to ensure the

safety of the residents, a complete smoke and vehicle free zone, well maintained lawns & gardens that add beauty of the Hostel.

Medical Facility-The residents of the Hostel get an opportunity to be enrolled as member of Health Centre, University of Delhi. WUS provides basic as well as emergency health treatment. In case of medical emergency, the resident is taken to the nearest available hospital, the LG is informed to take charge of her ward. Besides, there is a medical room equipped with first-aid facilities and a psychological counselor visits the Hostel for two hours twice in a week to provide counseling service for the benefit of the residents of Rajiv Gandhi Hostel for Girls.

Sport Facility (Indoor and Outdoor Games) and Gym room with equipments are available.

Other Significant Information

Cultural Activities:

India being a culturally diverse society, residents actively participate in various cultural activities. Hostel commemorates national festivals Independence Day and Republic Day. Most famous festivals such as Holi, Diwali, Christmas, Lohri and Sarsawati Pooja are celebrated with so much excitement and energy. The most awaited function of the hostel i.e. "RAGAAZ" is organized by the Hostel Welfare Association comprising of residents.

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-Sexual Harassment Committee

Racial Discrimination Committee

Anti-Smoking Committee

Cultural Committee

Mess Committee

Cleanliness Committee.



Saramati Post Graduate Men's Hostel

Brief History

The Saramati Post Graduate Men's Hostel has been established by the North East Council, Ministry of Home Affairs, Government of India and University of Delhi. It provides residential facility to the students from the north eastern parts of the country studying in University of Delhi as well as other students pursuing academic programs and bonafide students of South Campus. It is one of the modest and well-equipped hostels of the University.

Major Activities and Achievements

Saramati P.G. Men's Hostel adopted the online admission and fee payment system in the current admission session. It has the capacity to accommodate 130 students on twin sharing basis. Each resident in the hostel is provided with a bed, bed mattress, study table, chair, white laminated board, almirah, fan, LED light, shoe rack and curtains.

Hostel celebrated the Republic Day and the Independence Day with high student's participation.

Facilities

The hostel provides quality food breakfast, lunch, high tea and dinner to the residents of the hostel.

Hostel has recreation room fitted with high-definition LED TV set along with DTH service and common reading place with dozens of 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 sport gears for cricket, football, badminton and several others.

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. Hostel provides security 24-7 to residents and parking facility with Guard.

The hostel has installed Automatic sanitizing machine and prepared isolation room to control the spread of covid-19 Virus.

Hostel has a double occupancy Guest Room and Guest house equipped with the Air Conditioner and Heat Convector. Both of the facilities are open for the visiting guests and parents of the residents. Saramati hostel has also maintained lush greens, beautiful landscape, around the hostel. RO's waste water is used for gardening.

Department of Social Work Hostel

Major Activities and Achievements

Installation of Internal PNG line (Gas line) in the Hostel Mess.

Best Practices

A practice of participative management of our Department of Social Work Hostel and also all staff members contributes to the smooth functioning of the Hostel.



All time best facilities provide to the Hostel residents and smooth functioning of the Hostel.

Facilities

The campus is quite friendly towards persons with disabilities. Its entrance has been modified and fitted with ramps to suit their special needs. 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 news papers,

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.

Other Significant Information

In the current academic session, due to the COVID pandemic and the COVID-19 protocol, the hostel remained vacant as the classes were conducted in the virtual/ blended mode and field work too was undertaken by the students in their respective locations or in the online mode. So, this hostel remained closed in this academic session.

Under Graduate Hostel for Girls

Major Activities and Achievements

The hostel organizes various events to keep the students engaged in productive activities. The hostel endeavours to create an atmosphere conducive to learning and enjoyment. All significant festivals were celebrated in the hostel, starting with the Independence Day celebrations on 15th August 2021. Diwali festival was celebrated on 4th November 2021, with the lighting of lamps and rangolis. Christmas Day was celebrated on 25th December 2021 with the cutting of a cake and decorations. Lohri was celebrated on 13th January 2022 with the lighting of a huge bonfire. The Provost and Warden hoisted the national flag on 26th January 2022. Holi was celebrated on 18th March 2022 with organic colours.

Number of UG Students

398

Best Practices

Lush green lawns and flower beds greet the residents. The walls are decorated with pictures, keeping alive India's rich heritage. CCTV cameras are installed in common areas and at the gates for the students' security.

There are disabled-friendly washrooms and ramps. All fees are collected online. The mess serves four meals a day, including the facility

for packed lunch. The hostel adopts green practices, including waste segregation, composting garden waste, switchover to eco-friendly LED lighting, minimal paper usage, etc.

Facilities

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, Two TV Rooms, the hostel also has a well-ventilated Dining Hall, Laundry



Room, Tuck-shop, Badminton Court, Basket Ball Court and Table Tennis court.

Other Significant Information

The Hostel was established in October 2012. The Hostel is aesthetically designed on a vast

campus with seven blocks and a total of 344 rooms on double occupancy. It is the first hostel to accommodate students from 49 Colleges/Departments Comprising both the North and South Campus of Delhi University.

University Hostel for Women

Major Activities and Achievements

All festivals such as Diwali, Christmas Eve, New Year Eve, Lohri, Saraswati Puja, Guru Nanak birthday and Holi were celebrated in the hostel with lots of enthusiasm followed by grand feasts.

National festivals and activities to increase consciousness:

26th June 2021, International Yoga Day: All authorities staff and residents joined this campaign and perform several asanas to gain physical, mental and spiritual peace and celebrated this day to spread awareness.

15 August 2021, Independence Day and tree plantation day: All authorities, residents and staff joined the country in the celebration of Independence Day by singing National Anthem and other patriotic songs followed by cultural programme. Tree plantation drive was conducted on the occasion of Independence Day to make our planet greener and clean.

02 October 2021, Gandhi Jayanti and Swachh Bharat Mission: In accordance with the drive of Swachh Bharat Abhiyaan programme University Hostel for Women (UHW) took initiative and continued to keep the premises and surrounding areas clean. The entire hostel staff and residents participated in the cleanliness drive.

26 January 2022, Republic Day: The celebrations began with flag hoisting followed by singing of National anthem, patriotic songs and dance by residents and karamcharies. The

ceremony concluded with distribution of sweets.

Number of PG Students

17

Number of M Phil/Ph.D. Students

41

Best Practices

We have made following Committees in UHW
Disciplinary Committees
Anti-Ragging Committee
Anti-Smoking Committee
Gender Sensitization Committee

Cultural Committee: Celebration of International Women's Day on 8th March 2022 and 'A Get Together' and photo exhibition were organized by the Cultural Committee.

Mess Committee: Residents are encouraged to volunteer for mess duties and actively participated in its management.

Cleanliness Committee: Residents are encouraged to volunteer for the floor duties. Cleanliness and maintenance was observed by the residents on duty.

Facilities

Visitor Room, Mess with dining hall, Gym, Common Room, Reading Room, Sick Room, A Room, Laundromat, Common Refrigerator for residents, Common Television for Residents, Tea/Coffee vending machine and Wi-Fi.



Other Significant Information

All precautions and measures of COVID-19 guidelines issued by MHA/ University of Delhi

were followed by the Hostel administration, residents and staff.

V.K.R.V. Rao Hostel

Major Activities and Achievements

The residents of the hostel celebrated national days including Independence Day, Republic day and Gandhi Jayanti with gaiety and fervor. Independence Day and Republic day were 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 celebrated various festivals covering Diwali, Holi, Lohri, Saraswati Puja and Christmas Eve with lot of enthusiasm by maintaining the protocols of Covid-19. During Covid period, the hostel organized guests lectures (online mode) by Dr. Rajay Narayan (Cardiologist) at St. Georges University Hospital, London on 4th July, 2021.

Number of UG Students

04

Number of M Phil/Ph.D. Students

06

Best Practices

The hostel has constituted a SEWA Committee to cater to the needs and welfare of the residents. Further, it has constituted many other committees including Anti-ragging Committee, Welfare of North East Students, and Grievance Committee for students that encompasses all issues confronting the residents of the hostel.

Facilities

The Hostel offers a full range of services and resources to support and enhance the quality of life of its residents.

Guests facilities for residents' guests, Guest Rooms for Parents only, Medical Facilities, Mess and the Dining Hall, Canteen, Computer and Internet & Wi-fi Facilities, Common Room Gym & Sports events, First Aid Box, Book Bank, Laundry Services, Intercom facilities, Reading room, Visitors' room, Hostel Security with CCTV Cameras and PwD Friendly resources.

WUS University Hostel

Major Activities and Achievements

WUS University Hostel for Women is residence for Ph.D. Students, Teachers of the University, Visiting Teachers and Post-Doctoral Researchers, with a capacity of 18 Rooms.

Number of M Phil/Ph.D. Students

18

Best Practices

The resident celebrates the various festivals like Dipawali, Christmas, Holi, New Year etc.

The Mess is running by residents on co-operative basis. However, infrastructure for the Mess facility is being provided by the Hostel.

**Facilities**

Visitor's Room [AC], Colour TV, Refrigerators on both Floors & Kitchen, Newspapers [Hindi and English], CCTV and Washing Machine.

Other Significant Information

The Hostel was taken over by the University from the World University Science in 1990.



Annual Accounts


UNIVERSITY OF DELHI
BALANCE SHEET AS AT 31st MARCH, 2022

₹ in Crores

Particulars	Schedule	Current Year	Previous Year
SOURCES OF FUNDS			
CORPUS/CAPITAL FUND	1	(1989.67)	(1816.15)
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	1599.19	951.54
CURRENT LIABILITIES & PROVISIONS	3	3244.96	3526.83
TOTAL		2854.48	2662.22
APPLICATION OF FUNDS			
Tangible Assets	4	763.84	769.80
Intangible Assets		2.98	0.65
Capital Works-in-Progress		----	----
INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS	5	66.52	88.31
INVESTMENT – OTHERS	6	----	----
CURRENT ASSETS	7	1878.19	1665.88
LOANS, ADVANCES & DEPOSITS	8	142.95	137.58
TOTAL		2854.48	2662.22
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		



UNIVERSITY OF DELHI

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2022

₹ in Crores

Particulars	Schedule	Current Year	Previous Year
INCOME			
Academic Receipts	9	153.47	69.66
Grants / Subsidies	10	697.28	582.73
Income from Investment	11	1.62	0.88
Interest Earned	12	1.93	2.24
Other Income	13	8.38	7.74
Prior Period Income	14	0.00	7.61
Increase in Stock		0.77	0.25
TOTAL (A)		863.45	671.12
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	804.60	505.75
Academic Expenses	16	76.53	46.49
Administrative and General Expenses	17	118.74	111.88
Transportation Expenses	18	0.56	0.42
Repairs & Maintenance	19	17.65	11.49
Finance costs	20	0.01	0.03
Depreciation	4	31.97	59.20
Expenditure on Grants, Subsidies etc.	21	13.81	16.38
Prior Period Expenses	22	11.49	37.74
TOTAL (B)		1075.36	789.39
Balance being excess of Income over Expenditure/ (Expenditure over Income) (A - B)		(211.91)	(118.27)
Transferred to / from Designated Fund Corpus/ Capital Fund (Schedule 1)			
Balance being Surplus/(Deficit) carried to Corpus/Capital Fund		(211.91)	(118.27)
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		



UNIVERSITY OF DELHI
BALANCE SHEET AS AT 31st MARCH, 2022

Particulars	Schedule	Current Year	Amount in ₹ Previous Year
SOURCES OF FUNDS			
CORPUS/CAPITAL FUND	1	(19896737698)	(18161577781)
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	15991877962	9515403543
CURRENT LIABILITIES & PROVISIONS	3	32449632762	35268385369
TOTAL		28544773026	26622211131
APPLICATION OF FUNDS			
FIXED ASSETS			
Tangible Assets	4	7638378423	7698034637
Intangible Assets		29848025	6489873
Capital Works-in-Progress		----	----
INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS	5	665183000	883083000
INVESTMENT – OTHERS	6	----	----
CURRENT ASSETS	7	18781856056	16658782124
LOANS, ADVANCES & DEPOSITS	8	1429507522	1375821498
TOTAL		28544773026	26622211131
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		



UNIVERSITY OF DELHI
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2022

Particulars	Schedule	Current Year	Previous Year
INCOME			
Academic Receipts	9	1534725903	696569708
Grants / Subsidies	10	6972795725	5827328335
Income from Investment	11	16178940	8844592
Interest Earned	12	19326702	22350162
Other Income	13	83836579	77443477
Prior Period Income	14	-----	76149846
Increase in Stock		7661742	2505911
TOTAL (A)		8634525591	6711192032
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	8045976222	5057488618
Academic Expenses	16	765337471	464938484
Administrative and General Expenses	17	1187417190	1118847218
Transportation Expenses	18	5568048	4203664
Repairs & Maintenance	19	176530299	114935666
Finance costs	20	69473	278863
Depreciation	4	319662566	592031658
Expenditure on Grants, Subsidies etc.	21	138117277	163817755
Prior Period Expenses	22	114871468	377365539
TOTAL (B)		10753550014	7893907466
Balance being excess of Income over Expenditure/ (Expenditure over Income) (A- B)		(2119024423)	(1182715434)
Transferred to / from Designated Fund Corpus/ Capital Fund (Schedule 1)			
Balance being Surplus/(Deficit) carried to Corpus/Capital Fund		(2119024423)	(1182715434)
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 1 - CORPUS/CAPITAL FUND	Amount in ₹	
	Current Year	Pre ious year
Balance at the beginning of the year	(18161577781)	(21689232543)
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure		
(a) Plan Accounts	-----	2039080756
(b) Salary/Recurring grant	-----	-----
(c) Capital Assets	157443633	75411834
(d) Amount Released to CPWD on deposit basis under EWS	<u>100000000</u>	-----
Add: Assets Purchased out of Earmarked Funds		
(a) Miscellaneous Accounts	1308370	2486504
(b) Plan Accounts	40292004	-----
(c) Other Earmarked Funds	<u>56725210</u>	<u>49073828</u>
Add: Assets Purchased out of UGC Specific Schemes	1516857	-----
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution		
Add: Assets Donated/Gifts Received	1008	18
Add: Assets transferred to University after closure of Projects	<u>27696275</u>	<u>18064933</u>
Add: Adjustment of Loan ACBR (2020-21).	500000	
Add: Difference in Depreciation amount from WDV to SLM (In Previous Year)	-----	2526252625
Add: Assets disposed off during the year	(1618851)	(301)
Add: Excess of Income over expenditure/(Excess of Expenditure Over income) transferred from the Income & Expenditure	(2119024423)	(1182715434)
Balance at the year end	(19896737698)	(18161577781)



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 2 - DESIGNATED/EARMARKED/ENDOWMENT FUNDS				Amount in ₹	
Particulars	Funds wise breakup			Total	
	Misc. A/c	Endowment Funds	Other Earmarked	Current Year	Previous Year
A.					
a) Opening balance	106106682	1014074223	7440262637	9515403543	8747162952
Opening balance of Plan A/c			4781958314	4781958314	----
Opening Balance of OEM(LDF)			42964506	42964506	----
b) Additions during the year					
(i) Income from investments made of the funds	25225065	33572536	360976752	419774353	300389726
(ii) Accrued Interest on Investments/Advances	35282287	23482421	253513284	312277992	160666484
(iii) Interest on Savings Bank a/c	307071	558630	7527938	8393639	9459832
(iv) Other additions (specify nature)	640201324	6683617	671208413	1318093354	627362409
Total(A)	1762082429	1078371427	13558411844	16398865700	9845041402
B.					
Utilization/Expenditure towards objectives of funds					
ii) Capital Expenditure	1308370	----	97017214	98325584	51560332
ii) Revenue Expenditure	139802680	14412470	154447004	308662154	278077525
Total(B)	141111050	14412470	251464218	406987738	329637857
Closing balance at the year end (A-B)	1620971379	1063958957	13306947626	15991877962	9515403543
Represented by					
Cash And Bank Balances					
Current Accounts	2668883	----	1192057	3860940	23254438
Saving Accounts	16047326	42041494	312028288	370117108	632217043
Investments	----	164200000	500900000	665100000	883000000
Fixed Deposit	1554233511	831205283	11896050472	14281489266	7657190241
Interest accrued but not due	35282287	23482420	253743102	312507809	165865507
Shares	----	83000	----	83000	83000
Other Loan & Advances	9750433	----	286069194	295819627	88918068
Amount Payable to University Press	(18202)	----	----	(18202)	(18202)
Electricity Deposits	----	----	9409500	9409500	9409500
Grant not pertaining to Plan A/c	----	----	(747353)	(747353)	----
Capital Assets/Project A/c ACBR	----	----	(19773445)	(19773445)	----
TDS's refundable	2940181	2946760	84583934	90470875	55570752
GST Receivable	66960	----	----	66960	----
Other Grants Received Under Specific Schemes	----	----	(16508123)	(16508123)	----
Maintenance grant a/c	----	----	----	----	(86805)
Total	1620971379	1063958957	13306947626	15991877962	9515403543



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SCHEDULE 2A - ENDOWMENT FUNDS

		Opening Balance		Additions during the Year			Total		Closing Balance			Amount in ₹
1. Sr. No.	2. Name of the Endowment	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	Total (10+11)	
1	Sir Shankar Lal Instt. Of Music (298355)	2560144	567659	0	189614	2560144	757273	19942	2560144	737331	3297475	
2	Shri Sri Ram Chair in Physics (298399)	8075484	3710275	0	680560	8075484	4390835	71	8075484	4390764	12466248	
3	Shri Shankar Lal Chair in Chemistry (298402)	8942830	4261533	0	736775	8942830	4998308	189	8942830	4998119	13940949	
4	IFC Chair in Faculty of Mgmt. studies (298683)	16159640	7377169	0	1358878	16159640	8736047	118	16159640	8735929	24895569	
5	SP Jain Advanced Mgmt. Research (299041)	2179569	955562	0	163249	2179569	1118811	47	2179569	1118764	3298333	
6	Pt. Man Mohan Nath Dhar (298956)	1422014	673906	0	116751	1422014	790657	0	1422014	790657	2212671	
7	Professorship in Economics (298741)	14723096	7083996	0	1243034	14723096	8327030	118	14723096	8326912	23050008	
8	Publication of Orient Insect (299416)	622573	271619	0	52318	622573	323937	0	622573	323937	946510	
9	DU Endowment Fund (299733)	268614034	79567593	3241750	19908003	271855784	99475596	1861052	271855784	97614544	369470328	
10	Pt. Man Mohan Krishan Kaul (299880)	1691856	806761	0	135714	1691856	942475	0	1691856	942475	2634331	
11	Book Grant RTL (300228)	311051780	88672079	40200	23531482	311091980	112203561	12530721	311091980	99672840	410764820	
12	DU Amway Professorship in Enter. Dev. (300705)	13004520	5584442	0	994355	13004520	6578797	118	13004520	6578679	19583199	
13	Cluster Innovation Centre Corpus Fund	115472131	47051919	0	11599563	115472131	58651482	94	115472131	58651388	174123519	
14	MHRD IPR CHAIR	488	7189	0	209	488	7398	0	488	7398	7886	
15	State Bank of India Scholarship (Advance RPA Scholarship) (46397)	2724255	238109	55000	149024	2779255	387133	0	2779255	387133	3166388	
16	DU Corpus Fund (94542)	0	0	100000	725	100000	725	0	100000	725	100725	
		767244414	246829811	3436950	60860254	770681364	307690065	14412470	770681364	293277595	1063958957	

Notes

- 1 The total of Columns 3 & 4 will appear as the opening balance in the column "Endowment Funds" in Schedule2, of Earmarked Funds forming part of the Balance Sheet.
- 2 The total of Col.9 should normally be less than the total of Col. 8, as only the interest is to be used for the expenditure on the object of the endowments. (except Endowments for Chairs)
- 3 There should not normally be a debit balance in the schedule. If in a rare case, there is a debit balance against any of the Endowment Funds, the debit balance should appear on the Assets side of the Balance Sheet as "Receivables", in Schedule-8 Loans, Advances & Deposits.



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SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS	Current year	Amount in ₹ Previous Year
A. CURRENT LIABILITIES		
1. Sundry Creditors		
a) For Goods	92836606	20086955
2. Deposit-others (including EMD, Security Deposit)	492159	381568
3. Statutory Liabilities (GPF,TDS,WC TAX,CPF,GIS,NPS)		
a) Other Bodies Transaction	54409924	3372915
b) Duties & Taxes	40756774	61626
4. Other Current Liabilities		
a) Salaries	164701157	232409743
b) Receipts against Sponsored Projects	2620210419	1952517182
c) Receipts against Sponsored Fellowships & Scholarships	109382375	107139520
d) Unutilized Grants	408070808	5696647018
e) Amount refundable to UGC	74559689	64563576
f) Other funds	269314139	602480867
g) Other liabilities	48388238	45361357
Total (A)	3883122288	8725022327
B. Provisions		
1. Gratuity	1370980441	1408954777
2. Superannuation Pension	25525982894	23583126601
3. Accumulated Leave Encashment	1620850862	1442666277
4. Others (Specify)/Expenses Payable	48696277	108615387
Total (B)	28566510474	26543363042
Total (A+B)	32449632762	35268385369



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE - 3 (a) SPONSORED PROJECTS							Amount in ₹	
1	2	3	4	5	6	7	8	
Sr. No.	Name of the Project	Opening Balance	Receipts/Recoveries during the year		Total	Expenditure during the year	Closing Balance	
		Credit	Debit				Credit	Debit
1	Research Scheme A/c (295853)	538184219	0	162425458	700609677	116854620	583755057	0
2	IASE Scheme A/c (Educ) (295853)	1221241	0	0	1221241	351571	869670	0
3	Research Scheme A/c (SDC)(546386)	894152861	0	224938630	1119091491	219801977	899289514	0
4	B.R.A. Project A/c (298264)	57850738	0	29393657	87244395	20968646	66275749	0
5	Young Research Scientist A/c (298593)	166485534	0	54360821	220846355	28677849	192168506	0
6	CEMDE\Bio-Diversity Park (DDA)	61111911	0	93194312	154306223	101565670	52740553	0
7	Institution of Eminence	233510678	0	660330686	893841364	68729994	825111370	0
Total		1952517182	0	1224643564	3177160746	556950327	2620210419	0
Previous Year (2020-21)		1690035093	0	930159780	2620194873	667677691	1952517182	0

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.



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS							Amount in ₹	
Sr. No	Name of Sponsor	Opening Balance As on 01.04.21		Transactions During the year		Closing Balance As On 31.03.22		
		3	4	5	6	7	8	
1	2	CR.	DR.	CR.	DR.	CR.	DR.	
1	CSIR Fellowship (298413)	48612422	0	4360935	4639702	48333655	0	
2	UGC Fellowship (298560)	14001847	0	2373803	682560	15693090	0	
3	Other Bodies Scholarship (298707)	39478031	0	41638015	40814371	40301675	0	
4	CSIR Fellowship (SDC) (545269)	705324	0	37991	249396	493919	0	
5	UGC Fellowship (SDC) (545258)	4341896	0	218789	649	4560036	0	
Total		107139520	0	48629533	46386678	109382375	0	
Previous Year (2020-21)		107867697	0	36637630	37365807	107139520	0	

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 3(c) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS	Amount in ₹	
	Current Year	Previous Year
A. UGC Grants Plan		
Balance B/F	4781958313	6310444936
Less: Grant for EWS	----	(229200000)
Add: Receipts during the year	23804318	775719439
Total(a)	4805762631	6856964375
Less: T/f to Earmarked Fund	4781958313	----
Less: Refunds	----	8001722
Less: Utilized for Revenue Expenditure	4112458	27923584
Less: Utilized for Capital Expenditure	1516857	2039080756
Total (b)	4787587628	2075006062
Unutilized carried forward (a-b)	18175003	4781958313
B. Grants from UGC for Capital Assets		
Balance B/F	317049705	287673211
Add: Receipts during the year	70000000	115000000
Total(c)	387049705	402673211
Less: Refunds	----	10211672
Less: Utilized for Revenue Expenditure	570957	----
Less: Utilized for Capital Expenditure	157443633	75411834
Total (d)	158014590	85623506
Unutilized carried forward (c-d)	229035115	317049705



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

Amount in ₹

D. Grants from EWS			
Balance B/F		----	----
Add: Receipts during the year		100000000	----
	Total(e)	100000000	----
Less: Refunds		----	----
Less: Utilized for Revenue Expenditure		----	----
Less: Utilized for Capital Expenditure		100000000	----
	Total (f)	100000000	----
Unutilized carried forward (e-f)			
		----	----
D. UGC Grants for Salary and Recurring			
Balance B/F		597639000	----
Opening Balance E.W.S		----	229200000
Add: Receipts during the year		6531334000	6174153000
	Total(g)	7128973000	6403353000
Less: Refunds		----	6309249
Less: Utilized for Revenue Expenditure		6968112310	5799404751
Less: Utilized for Capital Expenditure		----	----
	Total (h)	6968112310	5805714000
Unutilized carried forward (g-h)		160860690	597639000
Grand Total(A+B+C+D)		408070808	5696647018

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 31-03-2022

SCHEDULE 4 Fixed Assets

S.No.	Assets Heads	Rate of Depreciation	Gross Block			Depreciation for the year 31.03.2022				Net Block		
			Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Depreciation for the year	Deductions/ Adjustment/ Prior Period	Total Depreciation	31.03.2022	31.03.2021
1	Land	0%	19716892	0	0	19716892	0	0	0	0	19716892	19716892
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0
3	Buildings	2%	6718954575	37200552	0	6756155127	385397351	113279878	0	498677229	6257477898	6333557224
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0
5	Tubewells & Water Supply	2%	0	0	0	0	0	0	0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0
7	Electrical installation and equipment	5%	31125659	7770218	240874	38655003	8001300	1932751	84019	9850032	28804971	23124359
8	Plant & Machinery	5%	647597815	27345250	0	674943065	145936003	34691434	0	180627437	494315628	501661812
9	Scientific & Laboratory Equipment	8%	679448374	70576197	464416	749560155	259729076	59478830	257609	318950297	430609858	419719298
10	Office Equipment	7.50%	56238554	25981010	1586999	80632565	16257588	5371042	731855	20896775	59735790	39980966
11	Audio Visual Equipment	7.50%	4821032	236845	2265	5055612	1383580	377641	968	1760254	3295358	3437452
12	Computers & Peripherals	20%	1877272254	43659535	3586845	1917344944	1796173020	34729976	3562895	1827340101	90004843	81099234
13	Furniture, Fixtures & Fittings	7.50%	233101905	14597037	451369	247247573	101443187	18543568	283055	119703701	127543872	131658718
14	Sports Equipment	10%	215434	0	0	215434	149329	21543	0	170872	44562	66106
15	Vehicles	10%	3177221	2789928	660343	5306806	2215335	531172	462240	2284267	3022539	961886
16	Lib. Books & Scientific Journals	10%	267965534	8675411	8381	276632564	128224844	27663257	0	155888101	120744463	139740690
17	Small Value Assets	0%	0	0	0	0	0	0	0	0	0	0
18	Work of Art	7.50%	3310000	0	0	3310000	0	248250	0	248250	3061750	3310000
Total (A)			10542945249	238831983	7001492	10774775740	2844910612	296869343	5382641	3136397315	7638378423	7698034637
19	Capital Work in Progress (B)		0	0	0	0	0	0	0	0	0	0
S.No.	Intangible Assets		Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Amortization for the year	Deductions/ Adjustment/ Prior Period	Total Amortization/ Adjustments	31.03.2022	31.03.2021
20	Computer Software	40%	15234845	23367440	0	38602285	14760474	9682751	0	24443224	14159061	474371
21	E-Journals	40%	9993275	22759534	0	32752809	3997310	13101124	0	17098434	15654375	5995965
22	Patents	9 Years	59735	24400	0	84135	40198	9348	0	49546	34589	19536
Total (C)			25287855	46151374	0	71439229	18797982	22793223	0	41591204	29848025	6489873
Grand Total (A+B+C+D)			10568233104	284983357	7001492	10846214969	2863708595	319662566	5382641	3177988519	7668226448	7704524509
Previous year (2020-21)			8385207549	2305898285	122872730	10568233104	2198022040	592031658	73654896	2863708595	7704524509	0

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column 'Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.



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SCHEDULE 4A - PLAN

S.No.	Assets Heads	Rate of Depreciation	Gross Block					Depreciation for the year 31.03.2022			Net Block		
			Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Depreciation for the year	Deductions/Adjustment/ Prior Period	Total Depreciation	31.03.2022	31.03.2021	
1	Land	0%	0	0	0	0	0	0	0	0	0	0	0
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0	0
3	Buildings	2%	2902816739	0	0	2902816739	183987034	58056335	0	242043369	2660773370	2718829705	0
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0	0
5	Tubewells & Water Supply	2%	0	0	0	0	0	0	0	0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0	0
7	Electrical installation and equipment	5%	0	0	0	0	0	0	0	0	0	0	0
8	Plant & Machinery	5%	401303005	0	0	401303005	87343139	20065150	0	107408289	293894716	313959866	0
9	Scientific & Laboratory Equipment	8%	370810538	0	0	370810538	153013918	29664843	0	182678761	188131777	217796620	0
10	Office Equipment	7.50%	0	0	0	0	0	0	0	0	0	0	0
11	Audio Visual Equipment	7.50%	1567898	0	0	1567898	595179	117592	0	712771	855127	972719	0
12	Computers & Peripherals	20%	1712401059	0	0	1712401059	1680148350	9982117	0	1690130467	22270592	32252709	0
13	Furniture, Fixtures & Fittings	7.50%	74664630	0	0	74664630	35879253	5599847	0	41479100	33185530	38785377	0
14	Sports Equipment	10%	0	0	0	0	0	0	0	0	0	0	0
15	Vehicles	10%	976781	0	0	976781	683747	97678	0	781425	195356	293034	0
16	Lib. Books & Scientific Journals	10%	31755129	0	0	31755129	16633250	3175513	0	19808763	11946366	15121879	0
17	Small Value Assets	0%	0	0	0	0	0	0	0	0	0	0	0
18	Work of Art	7.50%	1310000	0	0	1310000	0	98250	0	98250	1211750	1310000	0
Total (A)			5497605779	0	0	5497605779	2158283870	126857325	0	2285141195	3212464584	3339321909	0
19	Capital Work in Progress (B)		0	0	0	0	0	0	0	0	0	0	0
S.No.	Intangible Assets		Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Amortization for the year	Deductions/Adjustment/ Prior Period	Total Amortization/Adjustments	31.03.2022	31.03.2021	
20	Computer Software	40%	0	0	0	0	0	0	0	0	0	0	0
21	E-Journals	40%	0	0	0	0	0	0	0	0	0	0	0
22	Patents	9 Years	19360	0	0	19360	10754	2151	0	12905	6455	8606	0
Total (C)			19360	0	0	19360	10754	2151	0	12905	6455	8606	0
Grand Total (A+B+C+D)			5497625139	0	0	5497625139	2158294624	126859476	0	2285154100	3212471039	3339330515	0
Previous year (2020-21)			3459716726	2159532097	121623684	5497625139	1648812311	435827416	73654896	2158294623	3339330515	0	0

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column 'Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.



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SCHEDULE 4B(1)

Amount in ₹

S.No.	Assets Heads	Rate of Depreciation	Gross Block			Depreciation for the year 31.03.2022				Net Block		
			Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Depreciation for the year	Deductions/ Adjustment/ Prior Period	Total Depreciation	31.03.2022	31.03.2021
1	Land	0%	19716892	0	0	19716892	0	0	0	0	19716892	19716892
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0
3	Buildings	2%	407708564	0	0	407708564	56346560	8154171	0	64500731	343207833	351362005
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0
0	Tubewells & Water Supply	2%	0	0	0	0	0	0	0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0
7	Electrical installation and equipment	5%	20621792	0	240874	20380918	6830597	1019046	84019	7765624	12615294	13791195
8	Plant & Machinery	5%	95941902	0	0	95941902	30009456	5314934	0	35324390	60617512	65932446
9	Scientific & Laboratory Equipment	8%	88883185	0	464416	88418769	34597221	7073501	257609	41413113	47005656	54285963
10	Office Equipment	7.50%	39609218	0	1586999	38022219	13525142	2175267	731855	14968554	23053665	26084076
11	Audio Visual Equipment	7.50%	1552308	0	2265	1550043	388570	116253	968	503855	1046188	1163738
12	Computers & Peripherals	20%	86968191	0	3586845	83381346	76452018	3892805	3562895	76781928	6599418	10516173
13	Furniture, Fixtures & Fittings	7.50%	117993215	0	451369	117541846	52975767	8815639	283055	61508351	56033495	65017449
14	Sports Equipment	10%	214690	0	0	214690	148808	21469	0	170277	44413	65882
15	Vehicles	10%	2194845	0	660343	1534502	1531029	153942	462240	1222731	311771	663816
16	Lib. Books & Scientific Journals	10%	216672927	0	8381	216664546	106739902	21666455	0	128406357	88258189	109933025
17	Small Value Assets	0%	0	0	0	0	0	0	0	0	0	0
18	Work of Art	7.50%	0	0	0	0	0	0	0	0	0	0
Total (A)			1098077729	0	7001492	1091076237	379545070	58403482	5382641	432565911	658510326	718532660
19 Capital Work in Progress (B)			0	0	0	0	0	0	0	0	0	0
S.No.	Intangible Assets		Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Amortization for the year	Deductions/ Adjustment/ Prior Period	Total Amortization/Adjustments	31.03.2022	31.03.2021
20	Computer Software	40%	13800942	0	0	13800942	13766689	34242	0	13800931	11	34253
21	E-journals	40%	0	0	0	0	0	0	0	0	0	0
22	Patents	9 Years	31575	0	0	31575	24556	3508	0	28064	3511	7019
Total (C)			13832517	0	0	13832517	13791244	37750	0	13828994	3523	41273
Grand Total (A+B+C)			1111910246	0	7001492	1104908754	393336314	58441232	5382641	446394905	658513849	718573932
Previous year (2020-21)			1111829920	80326	0	1111910246	332785495	60550819	0	393336314	718573932	

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column 'Additions' during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.



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SCHEDULE 4B(2) - CAPITAL ASSETS

Amount in ₹

S.N o.	Assets Heads	Rate of Depreciation	Gross Block			Depreciation for the year 31.03.2022				Net Block		
			Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Depreciation for the year	Deductions/ Adjustment/ Prior Period	Total Depreciation	31.03.2022	31.03.2021
1	Land	0%	0	0	0	0	0	0	0	0	0	0
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0
3	Buildings	2%	3796722	14046033	0	17842755	139737	356855	0	496592	17346163	3656985
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0
5	Tubewells & Water Supply	2%	0	0	0	0	0	0	0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0
7	Electrical installation and equipment	5%	1137411	7428176	0	8565587	71477	428280	0	499757	8065830	1065934
8	Plant & Machinery	5%	27111979	8726247	0	35838226	2295075	2066468	0	4361543	31476683	24816904
9	Scientific & Laboratory Equipment	8%	58245154	22199473	0	80444627	9358180	5949588	0	15307768	65136859	48886974
10	Office Equipment	7.50%	13538676	23305922	0	36844598	1817164	2763345	0	4580509	32264089	11721512
11	Audio Visual Equipment	7.50%	1133445	118109	0	1251554	186199	92337	0	278536	973018	947246
12	Computers & Peripherals	20%	55058269	35527870	0	90586139	20405315	17731360	0	38136675	52449464	34652954
13	Furniture, Fixtures & Fittings	7.50%	8844126	12055844	0	20899970	902441	1567498	0	2469939	18430031	7941685
14	Sports Equipment	10%	0	0	0	0	0	0	0	0	0	0
15	Vehicles	10%	5595	2789928	0	2795523	560	279552	0	280112	2515411	5036
16	Lib. Books & Scientific Journals	10%	10032151	8446521	0	18478672	1131406	1847867	0	2979273	15499399	8900745
17	Small Value Assets	0%	0	0	0	0	0	0	0	0	0	0
18	Work of Art	7.50%	0	0	0	0	0	0	0	0	0	0
Total (A)			178903528	134644123	0	313547651	36307554	33083149	0	69390703	244156948	142595975
19 Capital Work in Progress (B)			0	0	0	0	0	0	0	0	0	0

S.N o.	Intangible Assets	Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Amortization for the year	Deductions/ Adjustment/ Prior Period	Total Amortization/A djustments	31.03.2022	31.03.2021	
												20
21	E-Journals / E-Books	40%	9993275	22759534	0	32752809	3997310	13101124	0	17098434	15654375	5995965
22	Patents	9 Years	0	24400	0	24400	0	2711	0	2711	21689	0
Total (C)		10785408	22799510	0	33584918	4353868	13407064	0	17760932	15823986	6431540	

Grand Total (A+B+C)		189688936	157443633	0	347132569	40661422	46490213	0	87151635	259980934	149027515
Previous year (2020-21)		114277102	75411834	0	189688936	16428128	24233294	0	40661421	149027515	

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column 'Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.



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SCHEDULE 4 C - INTANGIBLE ASSETS										Amount in ₹	
S.No.	Intangible Assets	Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Amortization for the year	Deductions/A djustment	Total Amortization/ Adjustments	31.03.2022	31.03.2021
1	Computer Software	15234845	23367440	0	38602285	14760474	9682751	0	24443224	14159061	474371
2	E-journals	9993275	22759534	0	32752809	3997310	13101124	0	17098434	15654375	5995965
3	Patents	59735	24400	0	84135	40199	9348	0	49546	34589	19536
Total (C)		25287855	46151374	0	71439229	18797982	22793223	0	41591204	29848025	6489872
Previous year (2020-21)		14601709	10686146	0	25287855	14372929	4425054	0	18797982	6489872	



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

	Amount in ₹					
SCHEDULE 4(C) (I) PATENTS AND COPYRIGHTS	Op. Balance	Addition	Gross	Amortization	Net Block 20....	Net Block 20....
A. Patents Granted						
1. Balance as on 31.03.22 of Patents obtained in 2021-22 (Original Value - Rs.../-)	----	----	----	----	----	----
2. Balance as on 31.03.22 of Patents obtained in 2021-22 (Original Value - Rs.../-)	----	----	----	----	----	----
3. Balance as on 31.03.22 of Patents obtained in 2021-22 (Original Value - Rs.../-)	----	----	----	----	----	----
4. Patents granted during the Current Year	----	----	----	----	----	----
Total	----	----	----	----	----	----
A. Patents Pending in respect of Patents applied for						
Particulars	Op. Balance	Addition	Gross	Patents Granted/Rejecte	Net Block 20....	Net Block 20....
1. Expenditure incurred during 20.....	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----
Total	----	----	----	----	----	----
C. Grand Total (A+B)						
Total	----	----	----	----	----	----

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



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 4D Others													Amount in ₹
S.No.	Assets Heads	Rate of Depreciation	Gross Block			Depreciation for the year 31.03.2022					Net Block		
			Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Depreciation for the year	Deductions/Adjustment/Prior Period	Total Depreciation	31.03.2022	31.03.2021	
1	Land	0%	0	0	0	0	0	0	0	0	0	0	0
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0	0
3	Buildings	2%	340463250	23154519	0	342778769	144924021	46712517	0	191636538	3236150531	3259708529	0
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0	0
5	Tube wells & Water Supply	2%	0	0	0	0	0	0	0	0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0	0
7	Electrical installation and equipment	5%	9366456	342042	0	9708498	1099226	485425	0	1584651	8123847	8267230	0
8	Plant & Machinery	5%	123240929	18619003	0	141859932	26288333	7244882	0	33533215	108326717	96952596	0
9	Scientific & Laboratory Equipment	8%	161509497	48376724	0	209886221	62759756	16790898	0	79550654	130335567	98749741	0
10	Office Equipment	7.50%	3090660	2675088	0	5765748	915282	432431	0	1347713	4418035	2175378	0
11	Audio Visual Equipment	7.50%	567381	118736	0	686117	213633	51459	0	265092	421025	353748	0
12	Computers & Peripherals	20%	22844735	8131665	0	30976400	19167336	3123694	0	22291030	8685370	3677399	0
13	Furniture, Fixtures & Fittings	7.50%	31599934	2541193	0	34141127	11685727	2560585	0	14246312	19894815	19914207	0
14	Sports Equipment	10%	744	0	0	744	521	74	0	595	149	223	0
15	Vehicles	10%	0	0	0	0	0	0	0	0	0	0	0
16	Lab. Books & Scientific Journals	10%	950527	228890	0	973427	3720286	973422	0	4693708	5040509	5785041	0
17	Small Value Assets	0%	0	0	0	0	0	0	0	0	0	0	0
18	Work of Art	7.50%	2000000	0	0	2000000	0	150000	0	150000	1850000	2000000	0
Total (A)			3768358213	104187860	0	3872546073	270774121	78525387	0	349299508	3523246665	3497584092	0
19 Capital Work in Progress (B)			0	0	0	0	0	0	0	0	0	0	0
S.No.	Intangible Assets		Opening Balance 01.04.2021	Additions	Deductions	Closing Balance 31.03.2022	Depreciation Opening Balance	Amortization for the year	Deductions/Adjustment/Prior Period	Total Amortization/Adjustments	31.03.2022	31.03.2021	
20	Computer Software	40%	641770	23351864	0	23993634	637227	9345280	0	9982507	14011127	4543	
21	E-journals	40%	0	0	0	0	0	0	0	0	0	0	
22	Patents	9 Years	8800	0	0	8800	4888	978	0	5866	2934	3912	
Total (C)			650570	23351864	0	24002434	642115	9346257	0	9988373	14014061	8455	
Grand Total (A+B+C)			3769008783	127539724	0	3896548507	271416236	87871644	0	359287881	3537266627	3497592547	0
Previous year (2020-21)			3699383801	70874028	1249046	3769008783	199996107	71420130	0	271416236	3497592547	0	0

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.

Note: The additions during the year include additions from:
 Gifted (Books) 1008
 Project Close (NC+SC) 27696275
 0875 Scheme 1516857
 Misc. Accounts Fund 1308370
 Plan Accounts Fund 40292004
 Other Earmarked Fund 56725210



UNIVERSITY OF DELHI
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SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	Amount in ₹	
	Current Year	Previous Year
1. In Central Government Securities	665100000	883000000
2. In State Government Securities	----	----
3. Other approved Securities	----	----
4. Shares	83000	83000
5. Debentures and Bonds	----	----
6. Term Deposits with Banks	----	----
7. Others (to be specified)	----	----
Total	665183000	883083000



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULES 5 (A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUNDS WISE)

Amount in ₹

S. No.	Funds	Current Year	Previous Year
1	Misc. Accounts - Govt. Securities	----	18000000
2	Publications - Govt. Securities	----	300000
3	Endowment Fund - Govt. Securities	164200000	319800000
4	Other Earmarked Fund - Govt. Securities	500900000	544900000
5	Endowment Fund - Shares	83000	83000
Total		665183000	883083000

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 31-03-2022

SCHEDULE 6 - INVESTMENT -OTHERS	Current Year	Amount in ₹ Previous Year
1. In Central Government Securities		
2. In State Government Securities	----	----
3. Other approved Securities	----	----
4. Shares	----	----
5. Debentures and Bonds	----	----
6. Other (to be specified)	----	----
TOTAL	----	----



UNIVERSITY OF DELHI
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SCHEDULE 7 - CURRENT ASSETS	Current Year	Amount in ₹ Previous Year
1. Stock		
a) Stationery	11487987	7763150
b) Water supply material	-----	-----
c) Chemicals & Glassware	1207615	-----
d) Drugs and Medicines	12269862	9476424
e) Answer Sheet	1171577	1235725
2. Sundry Debtors :		
a) Others	16857427	11812501
3. Cash and Bank Balance		
a) With Scheduled Banks :		
-In Current Accounts	45063494	82265824
-In Term Deposit Accounts	16583372774	13779817209
-In Savings Accounts	2109353820	2765513691
b) With non-Scheduled Banks :		
-In Term Deposit Accounts	-----	-----
-In Savings Accounts	-----	-----
c) Cash Balance in hand (including cheques\drafts) :	1071500	897600
4. Post Office Savings Accounts	-----	-----
TOTAL	18781856056	16658782124

Note : Annexure "A" shows the details of Bank Accounts



UNIVERSITY OF DELHI
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Annexure "A"

		Amount in ₹	
I Current Account		Current Year	Previous Year
1	B R Amedkar Centre General Fund A/c	2870	17269
2	SBI Law Centre II	132064	134017
3	SBI MG I	----	13530409
4	SBI MG II	1169991	553839
5	SDC Examination A/c	9567538	6189366
6	SDC General Fund A/c	29460421	34586835
7	Sponsored Project Bank A/c	89670	1221241
8	Plan Current A/c	1192057	2778409
9	Current A/cs of Earmarked Fund	2668883	23254438
	TOTAL-I	45063494	82265824
II Savings Bank Accounts			
1	NCWEB A/c	617	7742848
2	SBI Departmental Receipt A/c	2629524	20177590
3	SBI General Fund A/c	27721318	72320009
4	SBI Medical Reimbursement A/c	2582074	18700675
5	Sponsored Project Bank A/c	853679454	602025761
6	Sponsored Fellowship and Scholarship	21813317	78860578
7	Plan Savings A/c	42962591	103901419
8	Savings A/cs of Earmarked Fund	324524994	632217043
9	CPF Account refundable to UGC	1147510	2673
10	IDBI Bank A/c (Misc Fee)	2881377	210991
11	Online Fees collected from Students on ICICI Bank	256456104	560547579
12	Recurring A/c-(38010936321)	190162155	68730099
13	ICICI Bank A/c-(Exam)-004318	15067659	38149062
14	Capital Assets-(38010936467)	15420149	264599319
15	Salary Account-(38010911307)	352304977	297328045
	TOTAL-II	2109353820	2765513691
	TOTAL-III	---	---
III Reserve Bank of India- TSA			
IV Term Deposit Accounts			
1	FDR from Earmarked Fund(including margin money)	9772607720	7657190241
2	FDR from UGC Refundable A/c	63875000	46435325
3	FDR from ACBR A/c	1102166	1102166
4	Sponsored Project Bank A/c(including margin money)	1556849342	1251657226
5	Sponsored Fellowship and Scholarship	85000000	25000000
6	FDR From Plan A/c (including margin money)	4508881546	4268432251
7	FDR From Capital Assets A/c	185057000	----
8	FDR From SBI General Fund Saving 50212	80000000	530000000
9	FDR From Salary A/c 11307	330000000	----
	TOTAL-IV	16583372774	13779817209
	GRAND TOTAL (I+II+III+IV)	18737790088	16627596724



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS	Current Year	Amount in ₹ Previous Year
1. Advances to employees (Non-interest bearing)		
a) Festival	----	16439
b) Leave Travel Concession	2359912	6322926
2. Long Term Advances to employees (Interest bearing)		
a) Vehicle Loan/Conveyance/Computer	464850	224791
b) Home Loan/HBA	7052200	2731700
3. Advances and other amounts recoverable in cash or in kind or for value to be received		
a) Delhi University Pension Accounts	----	2980000
b) Delhi University Press	17395000	17395000
c) Sir Shankar Lal Chair in Chemistry Fund A/c	1100000	1100000
d) Other Advance out of Earmarked Funds	64823116	85961577
e) Other Advance out of Maintenance Grant A/c	376271695	413051165
f) Other Advances out of Sponsored Projects	206984802	87739392
g) Advance from Plan A/c	223479461	285168791
h) Others(TDS refundable)	103964145	89606074
4. Prepaid Expenses		
a) Other Expenses	42733473	26591259
5. Deposits		
a) Electricity	20805300	20805300
b) DESU (Security)	4795	4795
c) Others	4922373	4922373
6. Income Accrued:		
a) On Investments from Earmarked/Endowment Funds	190191513	165865507
b) On Investments from ACBR/ UGC Refundable A/c	152497	78771
c) On Investments from UGC Refundable A/c	1581594	900977
d) On Investments from Sponsored Projects	38890010	39527801
e) On Investments from Sponsored Fellowship and Scholarship	1276554	1984685
f) On Investments from Plan	122316296	121344287
g) On Investments from MG i.e. (ICIC), SDC)	2075082	1497888
7. Other - Current Assets receivable from UGC/sponsored projects		
a) Other receivables	189881	----
8. Claims Receivable		
a) GST Receivable	472973	----
TOTAL	1429507522	1375821498

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.



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE - 9 ACADEMIC RECEIPTS	Current Year	Amount in ₹ Previous Year
FEES FROM STUDENTS		
Academic		
1. Tuition fee	30376224	2267580
2. Admission Fee	10602674	2734879
3. Enrolment fee	113442658	23085525
4. Library Admission fee	3168689	1760367
5. Laboratory fee	35595	98555
6. Sports and Athletic Association Fee	12844549	8996439
7. Registration fee	86344760	108010067
8. Other Fees	33701789	71168354
Total (A)	290516938	218121766
Examinations		
1. Annual Examination Fee	1213238536	456758781
2. Marksheet, certificate fee	30295677	21689161
3. Entrance Examination Fee	674752	----
Total (B)	1244208965	478447942
Other Fees		
1. Identity card Fee	----	----
2. Fine/Miscellaneous Fee	----	----
3. Medical Fee	----	----
4. Transportation Fee	----	----
5. Hotel Fee	----	----
Total (C)	----	----



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

Sale of Publications

1. Sale of Admission forms	----	----
2. Sale of syllabus and Question Paper, etc.	----	----
3. Sale of prospectus including admission for	----	----
Total (D)	----	----

Other Academic Receipts

1. Registration fee for workshops, programm	----	----
2. Registration fees (Academic Staff College)	----	----
Total (E)	----	----

GRAND TOTAL (A+B+C+D+E)	1534725903	696569708
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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 10- GRANTS/SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Amount in ₹

Particulars	Govt. of India	UGC		Total Plan	UGC			Total UGC Grant	Current Year Total	Previous Year Total
		Previous Year (Plan)	Specific Schemes		Capital Assets	EWS	Recurring/Salary Grant			
Balance B/F		4781958313	----	4781958313	317049705	----	597639000	914688705	5696647018	6598118147
Add: Receipts during the year		----	23804318	23804318	70000000	100000000	6531334000	6701334000	6725138318	7064872439
Total		4781958313*	23804318	4805762631	387049705	100000000	7128973000	7616022705	12421785336	13662990586
Less: T/f to Earmarked Fund		4781958313	----	4781958313	----	----	----	----	4781958313	----
Less : Refund to UGC Balance		----	----	----	----	----	----	----	----	24522643
Less : Utilized for Capital expenditure (A)		----	1516857	1516857	157443633	100000000	----	257443633	258960490	2114492590
Balance		----	22287461	22287461	229606072	----	7128973000	7358579072	7380866533	11523975353
Less: utilized for Revenue Expenditure (B)		----	4112458	4112458	570957	----	6968112310	6968683267	6972795725	5827328335
Balance C/F (C)	-	----	18175003	18175003	229035115	----	160860690	389895805	408070808	5696647018

* There was unutilized grant of previous year Rs. 4781958313. Since this amount could not be utilized due to non-approval of competent authority, the unutilized grant amount transferred to schedule 2, as there is no relevance of Plan Account as per govt. mandate.

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



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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 11- INCOME FROM INVESTMENTS	Amount in ₹			
	Earmarked/Endowment Funds		Other Investments	
	Current Year	Previous Year	Current Year	Previous Year
1. Interest				
a. On Government Securities	----	----	----	----
b. Other Bonds/Debentures	----	----	----	----
2. Interest on Term Deposits	732052345	461056210	16178940	8844592
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees.	----	----	----	----
4. Interest on Saving Bank Accounts	8393639	9459832	----	----
5. Others (Specify)	----	----	----	----
Total	740445984	470516042	16178940	8844592
Transferred to Earmarked/Endowment Funds	740445984	470516042		
Balance	Nil	Nil		

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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SCHEDULE 12 - INTEREST EARNED	Amount in ₹	
	Current Year	Previous Year
1. On Savings Accounts with scheduled banks	19326702	22350162
2. On Loans		
a. Employee/Staff	----	----
b. Others	----	----
3. On Debtors and Other Receivables	----	----
Total	19326702	22350162



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SCHEDULE 13 - OTHER INCOME	Amount in ₹	
A. Income from Land & Building	Current Year	Previous Year
1. Rent from Building/Land etc.	11219741	6265414
2. License fee recovered from employees for Home Accommodation	22404057	11588917
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc.	----	----
4. Electricity charges recovered	----	----
5. Water charges recovered	----	----
Total (A)	33623798	17854331
B. Sale of Institute's publications	----	----
C. Income from holding events		
1. Gross Receipts from annual function/sports carn ival	----	----
Less : Direct expenditure incurred on the annual function/sports carnival		
2. Gross Receipts from fest	----	----
Less : Direct expenditure incurred on the fest		
3. Gross Receipts for educational tours	----	----
Less : Direct expenditure incurred on the tours		
4. Others (to be specified and separately disclosed)	----	----
Total (C)	----	----
D. Others		
1. RTI fee	8630	3114
2. Misc. receipts (Sale of tender form, waste paper, etc.)	1137518	1155132
3. Profit on Sale/disposal of Assets		
a) Owned assets	----	----
b) Assets received free of cost	----	----
4. Health Centre Contribution	47988754	50557644
5. Others (Specify)	1077879	7873256
Total (D)	50212781	59589146
GRAND TOTAL (A+B+C+D)	83836579	77443477



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

Particulars	Amount in ₹	
	Current Year	Previous Year
1. Academic Receipts	-----	76149846
2. Income from Investments	-----	-----
3. Interest earned	-----	-----
4. Other Income	-----	-----
Total	-----	76149846



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE - 15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

Amount in ₹

Particulars	UGC/O ther	Current Year		Previous Year		
			Total	UGC/Other Schemes	Total	
a) Salaries and Wages						
Teaching staff	#####	2230736844	2233917212	----	1733093781	1733093781
Non-Teaching staff	----	764597126	764597126	6188511	683513973	689702484
Lower Subordinate staff	----	241580819	241580819	----	257002161	257002161
b) Staff Welfare Expenses (Liveri	----	----	----	----	61155	61155
c) Retirement and Terminal Ben	----	4512947045	4512947045	----	2142913035	2142913035
d) LTC facility	----	20955539	20955539	----	10276025	10276025
e) Medical facility	----	235161228	235161228	----	195155353	195155353
f) Children Education Allowance	----	18703967	18703967	----	16026850	16026850
g) Honorarium	----	18113286	18113286	----	13257774	13257774
Total	#####	8042795854	8045976222	6188511	5051300107	5057488618



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFIT					Amount in ₹
	Pension	Gratuity	Leave Encashment	Total	Previous year
Opening Balance as on 01.04.21	23583126601	1408954777	1442666277	26434747655	26556416504
Addition : Capitalized value of Contributions Received from other Organizations	6425370	1864408	3101843	11391621	9306678
Total (a)	23589551971	1410819185	1445768120	26446139276	26565723182
Less: Actual Payment during the Year (b)	1980799052	267100995	192232077	2440132124	2273268562
Balance Available on 31.03.22 c (a-b)	21608752919	1143718190	1253536043	24006007152	24292454620
Provision required on 31.03.22 as per Actuarial Valuation (d)	25525982894	1370980441	1620850862	28517814197	26434747655
A. Provision to be made in the Current year (d-c)	3917229975	227262251	367314819	4511807045	2142293035
B. Contribution to New Pension Scheme	-----	-----	-----	-----	-----
C. Medical Reimbursement to Retired Employees	-----	-----	-----	-----	-----
D. Travel to Hometown Retirement	-----	-----	-----	-----	-----
E. Deposit Linked Insurance Payment	-----	-----	-----	1140000	620000
TOTAL (A+B+C+D+E)	3917229975	227262251	367314819	4512947045	2142913035



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 16 - ACADEMIC EXPENSES	Current Year			Previous Year			Amount in ₹
	UGC/Other Schemes	Total	Total	UGC/Other Schemes	Total	Total	
a) Chemicals & Glassware	517295	13688816	14206111	1086449	9126014	10212463	
b) Repair & Maintenance of Laboratory Equipments	----	----	----	----	500000	500000	
c) Seminars/Workshops/Conference Expenses	----	729278	729278	1819347	872532	2691879	
d) Award and Scholarships	----	85465008	85465008	----	65087593	65087593	
e) Examination	----	180151244	180151244	----	134327903	134327903	
f) Refund of Fees	----	1777945	1777945	----	265733	265733	
g) Entrance Exam	----	9629352	9629352	----	3032089	3032089	
h) Publications	----	30000	30000	----	104000	104000	
h) Magazines & Journals	----	107728793	107728793	----	89745251	89745251	
i) Contractual Salary or Adhoc Salary -- Teaching Staff	----	365388477	365388477	----	158543345	158543345	
j) Laboratory & Scientific equipment	----	231263	231263	----	428228	428228	
TOTAL	517295	764820176	765337471	2905796	462032688	464938484	



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES	Current Year		Previous Year		Amount in ₹	
	UGC/Other Schemes	Total	UGC/Other Schemes	Total		
A Infrastructure						
a) Electricity and Power	----	225446070	225446070	----	202788678	202788678
b) Water charges	----	4881252	4881252	----	58398888	58398888
c) Rent, Rates and Taxes (including property tax)	----	69383968	69383968	----	52294102	52294102
B) Communication						
d) Postage and Telephone	----	4506405	4506405	----	4383402	4383402
e) Connectivity Expenses	----	45349261	45349261	----	76415980	76415980
C) Others						
f) Printing and Stationery (consumption)	80789	17281846	17362635	----	9437643	9437643
g) Legal & Professional Charges	----	12512936	12512936	----	7278888	7278888
h) Advertisement and Publicity	----	131439	131439	----	----	----
i) Watch & Ward Expenses	----	146028521	146028521	----	155222316	155222316
j) House Keeping Expenses	----	110342704	110342704	----	104164559	104164559
k) Games & Sports	----	3343891	3343891	----	3569759	3569759
l) Medical Expenses	----	61001594	61001594	----	53463266	53463266
m) Others/Contingency	271161	41425894	41697055	1127078	47349061	48476139
D) Contractual/Adhoc Staff Salaries						
n) Non-Teaching Staff	----	280342043	280342043	----	228915197	228915197
o) Contribution to Provident Fund	----	4282441	4282441	----	6539611	6539611
p) Contribution to New Pension Scheme	----	160804975	160804975	----	107498790	107498790
TOTAL	351950	1187065240	1187417190	1127078	1117720140	1118847218



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE - 18 TRANSPORTATION EXPENSES	Current Year		Previous Year		Amount in ₹
	UGC/Other Schemes	Total	UGC/Other Schemes	Total	
1 Vehicles (owned by institution)					
a) Running expenses	----	1087105	1087105	----	----
b) Repairs & maintenance	----	471586	471586	1080197	1080197
c) Insurance expenses	----	170936	170936	----	----
2 Vehicles taken on rent/lease					
a) Rent/lease expenses	----	----	----	----	----
3 Vehicle (Taxi) hiring expenses	----	760959	760959	----	----
4 Travelling & Transportation Expenses	----	3077462	3077462	3123467	3123467
Total	-----	5568048	5568048	4203664	4203664



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

Amount in ₹

SCHEDULE - 19 REPAIRS & MAINTENANCE	Current Year			Previous Year		
	UGC/Other Schemes		Total	UGC/Other Schemes		Total
a) Buildings	-----	151753739	151753739	-----	105393739	105393739
b) Furniture & Fixtures	5357	6675169	6680526	-----	3616955	3616955
c) Plant & Machinery	-----	15571245	15571245	-----	5173113	5173113
d) Office Equipment	48823	21660	70483	259532	66406	325938
e) Computers	8665	-----	8665	-----	-----	-----
f) Gardening	-----	2445641	2445641	-----	425921	425921
Total	62845	176467454	176530299	259532	114676134	114935666



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

Amount in ₹						
SCHEDULE - 20 FINANCE COSTS	Current Year			Previous Year		
	UGC/Other Schemes	Total	Total	UGC/Other Schemes	Total	Total
a) Bank charges	-----	69473	69473	38797	240066	278863
b) Others (specify)	-----	-----	-----	-----	-----	-----
Total	-----	69473	69473	38797	240066	278863

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 BALANCE SHEET AS AT 31-03-2022

SCHEDULE - 21 Expenditure on Grants, Subsidies etc.	Current Year			Previous Year		
	UGC/Other Schemes		Total	UGC/Other Schemes		Total
a) Provision for Bad and Doubtful Debts/Advances	-----	-----	-----	-----	-----	-----
b) Irrecoverable Balances Written- off	-----	-----	-----	-----	-----	-----
c) Grants/Subsidies to other institutions/organizations	-----	138117277	138117277	17403870	146413885	163817755
d) Others (specify)	-----	-----	-----	-----	-----	-----
Total	-----	138117277	138117277	17403870	146413885	163817755

Note: Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investments, and loss on sale of fixed assets etc. and disclosed accordingly.



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

SCHEDULE 22: PRIOR PERIOD EXPENSES

Amount in ₹

Particulars	Current Year		Previous Year	
	UGC/Other Schemes	Total	UGC/Other Schemes	Total
1 Establishment expenses	----	----	----	206858591
2 Academic expenses	----	110692222	----	88175246
3 Administrative expenses (Printing & Binding)	----	2387518	----	7504463
4 Transportation expenses	----	----	----	----
5 Repairs & Maintenance	----	----	----	1172343
6. Depreciation related to prior period	----	1791728	----	73654896
Total	----	114871468	----	377365539



UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2022

Increase/Decrease in Stock	Amount in ₹	
	Current year	Previous year
a.) Closing Stock		
Stationery	11487987	7763150
Drugs and Medicines	12269862	9476424
Chemicals & Glassware	1207615	-----
Answer Sheet	1171577	1235725
Total (A)	26137041	18475299
b.) Less :Opening Stock	18475299	15969388
Total (B)	18475299	15969388
Net Increase/(Decrease) (A-B)	7661742	2505911



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SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2022

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:

- 2.1 Fees from Students, Sale of Admission Forms and Tuition Fees for each semester and Interest on Savings Bank Accounts are accounted for on cash basis.
- 2.2 Income from Land, Buildings and other Property and Interest on Investments are accounted for on accrual basis.
- 2.3 Interest on Interest Bearing Advances to staff for House Building, Purchase of Vehicles and Computers are accounted for on accrual basis every year, though the actual recovery of interest starts after the full repayment of the principal amount.

3 FIXED ASSETS AND DEPRECIATION:

- 3.1 Fixed assets are valued 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 are capitalized in the financial statement at a nominal value i.e. at Re. 1 (one) per asset.
- 3.2 Gifted / Donated Assets are valued at a nominal value at Re.1/- (one) per asset.
- 3.3 Books received as gift are valued at a nominal value at Re.1/- (one) per asset.
- 3.4 The University has adopted the method of depreciation from WDV to SLM from the Financial Year 2020-21. Depreciation on Fixed Assets is provided on Straight line method at the following rates.



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Tangible Assets:

S.No.	Type of Assets	Rate as Per S.L.M.
1	Land	0%
2	Site Development	0%
3	Buildings	2%
4	Roads & Bridges	2%
5	Tube wells & Water Supply	2%
6	Sewerage & Drainage	2%
7	Electrical Installation and equipment	5%
8	Plant & Machinery	5%
9	Scientific & Laboratory Equipment	8%
10	Office Equipment	7.5%
11	Audio Visual Equipment	7.5%
12	Computers & Peripherals	20%
13	Furniture, Fixtures & Fittings	7.5%
14	Vehicles	10%
15	Library Books & Scientific Journals	10%

Intangible Assets (amortization):

1	E-Journals	40%
2	Computer Software	40%
3	Patents and Copy rights	9 Years

3.5 In respect of additions to fixed assets during the year, depreciation is provided for full year. In respect of sale / deductions from fixed assets, no depreciation is charged. The asset which has been dispose-of has been shown as deduction during the year.



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- 3.6 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 as prescribed in the revised format of Ministry of Education (MOE). Assets purchased out of Projects 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 after depreciation charged at the rates applicable to the respective assets by debiting respective Fixed Assets account and crediting Capital Fund Account.
- 3.7 Assets, the individual value of each of which is Rs. 2,000 or less (except Library Books), are treated as Small Value Assets, 100% depreciation is provided in the year in which these are purchased. However physical accounting and controls are continued by the holders of such assets.
- 4 Intangible Assets:**
Patents and Copyrights, E-Journals 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 expenditure on Patents granted is written off over a life of 9 years on a conservative basis.
- 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 for in books of account on accrual basis as prepaid expenses.
- 4.3 Expenditure on acquisition of software has been separated from Computers and Peripherals, as apart from being intangible assets, the rate of obsolescence in respect of these is very high. Depreciation in respect of software is charging @ 40% on Straight Line Method as against the Depreciation of 20% provided in respect of Computers & Peripherals.
- 5 Stocks:**
The stocks at the end of the year are valued at cost.



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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:

Keeping in view the requirements of funds the surplus funds are kept as fixed deposit in bank accounts from time to time. Other investments which are made in earlier previous years have been incorporated at their cost/face value.

8 Earmarked/ Endowment Funds:

The Earmarked Fund consisting of Housing Building Fund, Conveyance Fund, Library Development 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, Computers, Library Development Fund) is accounted on accrual 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, Library Development Fund) 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 Investments 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. However in respect of Chairs, the Corpus of Endowment is also used.



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The balances are represented by Investment in RBI Bonds and Fixed Deposits and balance in Savings Bank Account common for all Endowments, and Accrued Interest on Investments.

9 Government and University Grants Commission Grants:

9.1 Government Grant and University Grants Commission grants are accounted on receipt basis. However, where a sanction for release of grant pertaining to financial year received before 31st March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount shown as recoverable from grantor.

9.2 To the extent utilized towards capital expenditure (on accrual basis), grant from UGC are transferred to the Capital Fund.

9.3 UGC grant to the extent utilized for meeting Revenue Expenditure (on accrual basis) are treated as income of the year in which they are realized.

9.4 Unutilized 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 amounts 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.



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11.2 In addition to funds for Fellowships released by the UGC, Fellowship and Scholarship are also sponsored by various organizations. These are accounted in the same way as Sponsored Projects except that the expenditure generally is only on distribution of Fellowships and Scholarship, which may include allowances for contingent expenditure by Fellows and Scholars.

11.3 The Institution itself also awards Fellowships and Scholarships, which are accounted as 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 after depreciation charged at the rates applicable to the respective assets 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(23C) (iiiab) of the Income Tax Act. No provision for tax is therefore made in the accounts.



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SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 2022

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 claims 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

A sum of Rs. 10.00 Crores has been received under EWS Scheme from MOE for construction of Building Projects of Hostel during the Year. The amount has been released to CPWD for execution of works on deposit basis.

3 Fixed Assets:

- 3.1 Addition in the year to Fixed Assets in Schedule 4, Capital Assets Rs. 15,74,43,633/- and Earmarked / Endowment Fund Rs.9,98,42,443/- which includes assets purchased out of Special scheme 0875 of Rs. 15,16,857/- , Sponsored Projects closed Rs. 2,76,96,273/- , Library Books & other assets of the value Rs. 1,008/- and Library Books & other assets gifted to the University of Delhi has been shown at nominal value Rs. 1/-. The assets have been set up by credit to the Capital Fund.
- 3.2 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.
- 3.3 Most of the long outstanding advances with M/s, Rites Ltd and Engineering India Limited (E.I.L.) has been adjusted on the basis of utilization certificate/expenditure details as submitted by the respective agencies and duly recommended by the Engineering Department. However, pending completion certificate in respect of final submission of bills, advances are to be adjusted in due course. Efforts are being made to settle the advances at the earliest.



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3.4 Advances with CPWD have been adjusted during the current financial year 2021-22 on the basis of utilization certificate as submitted by CPWD.

4 Deposit Liabilities:

There is no amount of earnest money deposit & security deposit which has been transferred to Revenue Account.

5 Unutilized Grant:

There was Unutilized Grant of previous year Rs. 4,78,19,58,313/-. Since the unutilized grant amount could not be utilized due to non-approval of competent authorities as such the amount transferred to Earmarked fund in Schedule 2, as there is no relevance of Plan Account as per Government Mandate. There is an unutilized grants including interest accrued of previous year amounting to Rs. 4,78,19,58,313/- which could not be utilized due to not receiving the approval from UGC being period over. The University is repeatedly requesting the UGC/MOE to grant special permission for utilization of that amount. However the amount has been kept under Earmarked Fund in Schedule -2.

6 Expenditure in Foreign Currency:

Transaction denominated in Foreign Currency is accounted for at the exchange rate prevailing at the date of payment / realization.

7 Current Assets, Loans & Advances and Deposits:

In the opinion of the management, the Current Assets, Loans and Advances have the value on realization in the ordinary course, equal at least to the aggregate amounts shown in the Balance Sheet.

8 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 except Salary A/c, Capital A/c and Recurring A/c 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.

9 Previous year figures have been regrouped / rearranged where-ever necessary.



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10 Figures in the final accounts have been rounded off to the nearest rupee.

11 Schedule 1 to 24 is annexed to & form an integral part of the Balance Sheet as at 31st March 2022 and the Income & Expenditure Account for the year ended 31st March 2022.

12 Provident Fund Accounts

As the Provident Fund Accounts including 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 2021-22 have been attached, to the University's Accounts.

13 Salaries:

The actual expenditure during the year on salaries incurred is for the period April, 2021 to March, 2022. Provision for an amount of Rs. 25,82,16,021/- (previous year Rs. 23,24,09,743) has been made for the month of March, 2022.

14 Prior Period Income and Expenses:

Prior Period Expenditure Rs. 11,48,71,468/- which includes Academic Expenditure Rs. 11,06,92,222/-, Administrative Expenses (Printing & Binding) Rs. 23,87,518/- and Depreciation Rs. 17,91,728/- (refer to Schedule 22: Prior Period Expenses).

15 Halls & Hostel:

- a) As the Hall & Hostels are separate reporting entities, their accounts are prepared separately from the University of Delhi 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 of Delhi Account.
- b) An amount of Rs. 9,67,325/- was embezzled by Mr. Asseem Bhatnagar, manager of International Guest House, whose services were, terminated in the University on 24th Dec, 2012 after following due procedure. The matter write-off will be taken by the competent authority in due course, since the amount is not recoverable from employee as such.



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16 Delhi University Press:

As University Press is a separate reporting entity, its accounts are prepared separately and attached to the University's Account. The University Press has already been closed as directed by the Ministry of Education (MHRD) and in accordance with Executive Council resolution no 79 (79-17) dated 15.03.2020.

- c) Amount of Rs. 1,73,95,000/- released to Press by University for its subsistence and it has been shown as liability in accounts of the University Press and same is shown as receivable under Annual Accounts of the University.
- d) Amount of Rs. 1,54,87,984/- is receivable from University and its departments which has been shown under current assets of the Press and same is shown as payable in the annual accounts of the University.
- e) Rs. 18,202/- from auction by University Press, has been deposited in University's account and shown in amount receivable from University and same shown as amount payable to University Press in the annual accounts of the University.

The matter regarding merger of D.U Press with University of Delhi is being examined/ under consideration of committee constituted by University of Delhi and the merger of the Press account with University accounts will be taken place in next financial year with taken over of assets and liabilities.

17 Institution of Eminence: -

The Central Government, on the recommendations of Empowered Expert Committee (EEC) and University Grants Commission (UGC) hereby declare University of Delhi as an "Institution of Eminence Deemed to be University" with effect from the issuance of the Notification No. F.11/9/2019-U3(A) dated 2nd March, 2020. Institution of Eminence account incorporated as project accounts with annual accounts of University of Delhi in Schedule-3(a) Sponsored Projects. During the financial year 2021-22, Grant of Rs. 65.07 Crores has been received, Rs. 6.87 crores utilized against expenditure and Rs. 12.72 crores given as on advance, as per the accounts as submitted by the IOE separately.



UNIVERSITY OF DELHI
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2022

RECEIPTS		Current Year	Previous Year	Amount in ₹	
				Current Year	Previous Year
I. Opening Balances					
a) Cash Balances		----	----		
b) Bank Balances					
i. In Current Accounts	82265824	131513570			
ii. In Saving Accounts	2765513691	3126403359			
iii. In Deposit Accounts	13779817209	11698773012			
c) Permanent Advance	897600	927600			
II. Grants Received					
a) From Government of India		----	----		
b) From State Government		----	----		
c) From UGC					
i) Grant for Capital Assets	70000000				
ii) Grant for Salary/ recurring	6531334000				
iii) Grants for EWS	100000000				
d) From UGC Specific Schemes	23804318	6725138318	6273385325		
III. Academic Receipts					
a) Fees and Subscriptions	1534845903	696569708			
b) Sale of Publications	----	----			
IV. Receipts against Earmarked/Endowment Funds		1315326551	638286769		
V. Receipts against Sponsored Projects/Schemes		1139436740	786720670		
VI. Receipts against Plan		----	508232507		
VII. Receipts against Sponsored Fellowships and Scholarships		44147612	31626527		
I. Expenses					
a) Establishment Expenses		5920421514		4981168919	
b) Academic Expenses		748306145		216221660	
c) Administrative Expenses		1195114601		1391051028	
d) Transportation Expenses		4996360		----	
e) Repairs & Maintenance		175769909		116444091	
f) Finance costs		69473		278863	
g) Expenditure on Grant		138117277		163817755	
h) Prior Period Items		----		302538300	
II. Payments against Earmarked/Endowment Funds				274560877	278059325
III. Payments against Sponsored Projects/Schemes				675247521	667677691
IV. Payments against Sponsored /fellowship Fellowships/Scholarships				46386678	37365807
V. Payments against Plan Accounts				----	----
VI. Investments and Deposits made					
a) Out of Earmarked/Endowment Funds		----		----	
b) Out of own funds (Investments - Others)		----		----	
VII. Term Deposits with Scheduled Banks				----	----
VIII. Expenditure on Fixed Assets and Capital Work - In - Progress				----	----
a) Fixed Assets		213326461		2166133248	
b) Capital Works - In - Progress		----		----	
IX. Other Payments including statutory payments				53884919	93807382
Other body transaction					



UNIVERSITY OF DELHI
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2022

VIII. Income on Investments From			X. Refunds of Grants	----	----
a) Earmarked/Endowment Funds	702550022	520694569	XI. Deposits and Advances		
b) Plan Accounts	----	296849722	a) LTC Advance	2859495	6312926
c) Sponsored Projects	91859021	192566053	b) Advance	135566198	
d) Sponsored Fellowship & Scholarship	5191805	4816517	c) Remittances	----	39060
			d) Advance out of Sponsored Projects, Plan, & Earmarked Fund	1229151	----
IX. Interest received on			XII. Other Payments	293231882	1722015972
a) Bank Deposits	13582367	10964834			
b) Loans and Advances	----	----	XIII. Closing Balances		
c) Savings Bank Accounts	19326702	22350162	a) Cash in hand	----	----
			b) Bank Balances		
X. Investments encashed	217900000	----	- In Current Accounts	45063494	82265824
			- In Savings Accounts	2109353820	2765513691
XI. Term Deposits with Scheduled Banks encashed	----	----	- In Deposits Accounts	16583372774	13779817209
			c) Permanent Advance	1071500	897600
XII. Other Income (including Prior Period Items)	78465149	140878196			
XIII. Deposits and Advances					
a) LTC Advance	393277	8466132			
b) Advances	24070956	81059292			
c) Remittances	----	1403768			
d) Advance out of Sponsored Projects, Plan, & Earmarked Fund	9146470	1485101097			
XIV. Miscellaneous Receipts including Statutory Receipts	54646603	10208628			
XV. Any Other Receipts	13428229	2103628332			
TOTAL	28617950049	28771426350	TOTAL	28617950049	28771426350



UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT
BALANCE SHEET AS ON 31st MARCH 2022

(Amount/Rs.)

Previous Year 31.03.2021	Liabilities	Current Year 31.03.2022	Previous Year 31.03.2021	Assets	Current Year 31.03.2022
	GPF				
4249067659	Opening Balance	4472248899		2626990000	1717190000
620758979	Add: Subscriptions/repayment of advance in the year	590166494			
299685154 (697253768) (9125)	Add: Interest Credited Less: Advance/Withdrawal/Final settlement Less: Adjustment relating to Previous yr.	307012927 (764951172) (93164)		2373300000	3470600000
4472248899	Closing Balance		4604383984		
	CPF				
627923323	Opening Balance	554122893		125154406	99316443
51614316	Add: Subscriptions & Contribution/repayment of advance in the year	35820376			
35816901 (161231647) -	Add: Interest Credited Less: Advance/Withdrawal/Final settlement Less: Adjustment related to Previous Year	28041344 (135153657) -		2813917	3595270
554122893	Closing Balance		482830956		
	Interest Reserve				
457538484	Opening Balance	488243666		100921878	185227173
30705182 -	Add: Excess of Income over Expenditure Less: (Excess of Expenditure over income)	- (29999806)		--GPF --CPF	69529914
488243666	Closing Balance		458243860		254757087
5514615458	TOTAL		5545458800		5545458800



UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2022

(Amount / Rs.)

Previous Year 31.03.2021	Expenditure	Current Year 31.03.2022	Previous Year 31.03.2021	Income	Current Year 31.03.2022
	Interest Credited to:		379065331	Interest received on Investment & SB A/c	330803040
299685154	GPF Account	307012927	92251480	Interest accrued for the year	99316443
35816901	CPF Account	28041344	9125	Adjustment related to previous year (interest)	93164
3564	Bank Charges	3776	(105115135)	Interest accrued for previous years	(125154406)
30705182	Excess of Income over Expenditure	---	---	Excess of Expenditure over income	29999806
366210801	Total	335058047	366210801	Total	335058047



UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2021-22

Receipts	(Amount / Rs.)	Payments	(Amount / Rs.)
Opening Balance as on 01/04/2021			
GPF A/c No.10851298435	100921878	GPF Adv./Withdrawal/Final Settlement	764951172
CPF A/c No.10851298457	285435257	CPF Adv./Withdrawal/Final Settlement	135153657
GPF Subscription	590166494	Investment during the year	3450800000
CPF Subscription & University Contribution	35820376	Bank Charges	3776
		Closing Balances:	
Investment Encashed	3263300000	GPF A/c No.10851298435	185227173
Interest Received	330021687	CPF A/c No.10851298457	69529914
TOTAL	4605665692	TOTAL	4605665692



NPS TIER-I ACCOUNT
BALANCE SHEET AS AT 31st MARCH 2022

(Amount / Rs.)

	Amount 31.03.21	Liabilities		Amount 31.03.22	Amount 31.03.21	Assets	Amount 31.03.22
		<u>NPS Tier-I Account :-</u>				<u>NPS Tier-I Account :-</u>	
14230965		Opening Balance	2585462		3513000	Investment	3603000
194930354		Add: Subscription + Univ. Contribution	270837777		116645	Interest accrued but not due	233344
(206575857)	2585462	Less: Amount transferred to NSDL	(271303559)	2119680	27428	TDS deducted on Flexi FD & FD	28058
		<u>Interest Reserve :-</u>					
3748552		Opening Balance	4379911		3308300	Balance at Bank Saving A/cs	3272223
631359	4379911	Add: Excess of Income over Exp.	637034	5016945			
	6965373	TOTAL		7136625	6965373	TOTAL	7136625



UNIVERSITY OF DELHI

NPS TIER-I ACCOUNT

INCOME & EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR 2021-22

(Amount / Rs.)

Amount 31.03.21	Expenditure	Amount 31.03.22	Amount 31.03.21	Income	Amount 31.03.22
212	Bank Charges	578	575272	Interest received on investment	531905
			(71338)	Interest accrued for the year 2020-21 but realized during 2021-22	(127637)
			127637	Interest accrued but not due	233344
631359	Excess of Income over Expenditure	637034			
631571	TOTAL	637612	631571	TOTAL	637612



UNIVERSITY OF DELHI

NPS TIER-I ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2021-22

(Amount / Rs.)

Amount 31.03.21	Receipts	Amount 31.03.22	Amount 31.03.21	Payments	Amount 31.03.22
15300134	Opening Balance as on 01/04/2021	3308300	3513000	Investment	1736000
194930354	Own Subscription & University Contribution	270837777	206575857	Withdrawal/Refund to NSDL	271303559
287396	Interest Received on investment	366943	212	Bank Charges	578
273485	Interest on Saving Bank A/c	153340			
2606000	Investment Encashed (F.D.)	1646000	3308300	Closing balance as on 31.03.2022	3272223
213397369	TOTAL	276312360	213397369	TOTAL	276312360



UNIVERSITY PRESS

BALANCE SHEET AS AT 31st MARCH 2022

Amount in `

FUNDS & LIABILITIES	CURRENT YEAR	PREVIOUS YEAR
1. Capital	247,624.00	248,273.00
2. Current Liabilities :		
(a) Payable to University of Delhi		
(i) Deduction from Salary	1,243,873.00	1,243,873.00
(ii) Inter Bank Transfer	17,395,000.00	17,395,000.00
(iii) Others	10,000.00	10,000.00
(b) Earnest Money	53,500.00	53,500.00
(c) Salary Payable	89,679.00	89,679.00
TOTAL	19,039,676.00	19,040,325.00
ASSETS	CURRENT YEAR	PREVIOUS YEAR
1. Machinery, Furniture & Equipments	-	-
2. Amount Receivable	15,487,984.00	15,487,984.00
3. Stock In Hand		
(a) Raw Material	562,870.00	562,870.00
(b) Finished Goods	-	-
4. Work in Progress	-	-
5. Cash in Bank	2,970,620.00	2,971,269.00
6. Permanent Advance	-	-
7. Advance Contingency	-	-
8. Amount Receivable from University against sale of assets	18,202.00	18,202.00
TOTAL	19,039,676.00	19,040,325.00



UNIVERSITY PRESS

PROFIT & LOSS ACCOUNT FOR THE YEAR 2021-22

Particulars	Current Year	Previous Year	Particulars	Amount in `	
				Current Year	Previous Year
1. <u>To Opening Stock :</u>			1. <u>Income :</u>		
(a) Raw Materials	-	562,870.00	(a) Income from Printing and Binding	-	-
(b) Finished Goods	-	-	(b) Prior Period Income from sale	-	18,202.00
2. <u>To Work in Progress</u>	-	-	2. <u>By Closing Stock :</u>		
3. <u>To Pay and Allowances :</u>		89,679.00	(a) Raw Materials	-	562,870.00
(a) L.T.C.	-	-	(b) Finished Goods	-	-
(b) Tuition Fees	-	-	3. <u>By Work in Progress</u>	-	-
(c) Bonus	-	-	4. Loss	649.00	93,274.00
(d) Medical Re-imbusement	-	-			
4. <u>To Purchase of Raw Materials</u>	-	-			
5. <u>To Misc. Contingent Exp.</u>	-	16,649.00			
6. <u>To Bank Charges</u>	649.00	-			
7. <u>To Work Done Through Outside Agency</u>	-	-			
8. <u>Depreciation :</u>					
(a) Machinery, Furniture & Equipment	-	5,148.00			
9. <u>Profit</u>	-	-			
TOTAL	649.00	674,346.00	TOTAL	649.00	674,346.00



UNIVERSITY OF DELHI
DELHI UNIVERSITY PRESS A/C NO. 10851295354
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31st MARCH, 2022

Receipts			Payments	Amount in `	
	Current Year	Previous Year		Current Year	Previous Year
<u>I Opening Balance</u>			<u>I Expenses</u>	---	---
Bank Balance	2971269	2969731			
<u>II Receipts from Printing & Binding work</u>			<u>II Other Administrative Expenses</u>		
a) Receipts against amount receivable account	---	2187	Expenditure	649	649
			<u>III Closing Balance</u>		
			Bank Balance	2970620	2971269
Total	2971269	2971918		2971269	2971918



UNIVERSITY OF DELHI
HALLS AND HOSTELS
BALANCE SHEET AS AT 31st MARCH, 2022

SOURCE OF FUNDS	Amount in `	
	Current Year	Previous Year
COURPUS/CAPITAL FUND	341842416	372343902
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	49932568	54419004
CURRENT LIABILITIES & PROVISIONS	51118268	30558579
TOTAL	442893252	457321485
APPLICATION OF FUNDS		
Fixed Assets		
Tangible Assets	30229767	31094954
Intangible Assets	6041	24247
Capital Works-In-Progress	----	----
INVESTMENT FROM EARMARKED/ENDOWMENT FUNDS		
Long Term	----	----
Short Term	14108114	13359004
INVESTMENTS- OTHERS	86020895	80311361
CURRENT ASSETS	300506405	310271850
LOANS, ADVANCES & DEPOSITS	12076254	22314293
MISCELLANEOUS EXPENDITURE	(54224)	(54224)
TOTAL	442893252	457321485



UNIVERSITY OF DELHI
HALLS AND HOSTELS
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2022

Particulars	Current Year	Previous Year
		Amount in `
(A) INCOME		
Academic Receipts	33041975	22909215
Grants/Subsidies	138299309	131985546
Income From Investment	16023742	18222828
Interest Earned	1289901	1345130
Other Income	16463834	12771096
Prior Period Income	----	----
Total (A)	205118761	187233815
(B) EXPENDITURE		
Staff Payments & Benefits (Establishment Expenses)	107844719	114264706
Academic Expenses	----	----
Administrative and General Expenses	105732604	70061602
Transportation Expenses	343878	443985
Repair & Maintenance	9142141	6003639
Finance Costs	72828	48560
Depreciation	3841821	3731044
Other Expenses	----	16186
Prior Period Expenses	10618128	(285401)
Total (B)	237596119	194284320
Excess of Income over Expenditure/ (Expenditure over Income) (A-B)	(32477358)	(7050505)
Balance being Surplus/(Deficit) carried to Capital Fund	(32477358)	(7050505)

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UNIVERSITY OF DELHI
HALLS AND HOSTELS
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31st MARCH 2022

Receipt			Payment	Amount in `	
	Current Year	Previous Year		Current Year	Previous year
I. Opening Balance			I. Expenses		
- Cash in Hand	61838	69906	(a) Establishment Expenses	105221303	116647820
- Bank Balance	85903695	91139124	(b) Academic Expenses	----	----
- Imprest	164680	194872	(c) Administrative Expenses	94035753	64430255
- Deposit Account	278965197	277995721	(d) Transportation Expenses	343878	443985
- TDS on FDR's Interest	51614	58557	(e) Repairs & Maintenance Expenses	8996344	5954781
			(f) Prior Period Expenses	5640877	----
II. Other Bank Balances/FDRs	203046	----	II. (a) Payments against Earmarked Fund	7911952	11676467
III. Grants Received	136071320	144538885	(b) Payment against Projects	5197	627290
IV. Academic Receipts	29448526	15872665	III. Investments and Deposits made	6579808	10923488
V. Receipts against Earmarked/Endowment Funds	8174647	6264551	IV. Expenditure on Fixed Assets & Capital work-in-Progress	2441136	618165
VI. Interest Received	9143510	14844899	V. Finance Charges	75686	45676
VII. Income from Investments	12683413	9562326	VI. Deposits and Advances	454459	8737769
VIII. Other Income	18330094	13450284	VII. Other Payments	2700809	3980229
IX. Deposits and Advances	9857539	12559456	VIII. Closing Balances		
X. Any Other Receipts	4224551	2681703	- Cash in Hand	18344	61838
			- Bank Balance	75547864	85903695
			- Imprest	106262	164680
			- Deposit Account	283203997	278965197
			- TDS on FDR's Interest	----	51614
Total	593283670	589232949	Total	593283670	589232949

