



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI
Govindpuri, Kalkaji, New Delhi 110019
ACCREDITED 'A' GRADE BY NAAC WITH SCORE OF 3.31
DBT STAR COLLEGE

ANNUAL REPORT 2023



The background features abstract geometric shapes in yellow and light green. There are four large light green circles and several yellow curved bands and segments. The text is positioned in the upper left area, overlapping a yellow band and a light green circle.

Disclaimer: The committee has compiled the annual report on the basis of information received by it. If any information has been missed out, it will be included in the annual report of 2023-2024.

The background features abstract geometric shapes in yellow and light green. A large yellow arc is in the upper right, a light green circle is to its right, and a yellow triangle is in the lower left with a light green circle inside it. Another light green circle is in the lower right.

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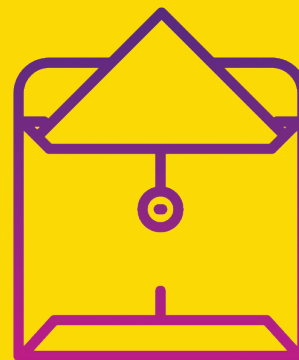
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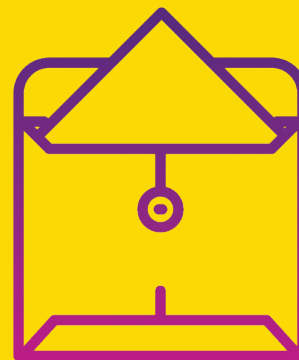
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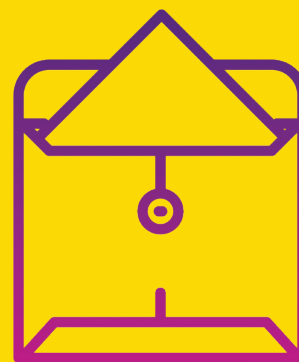
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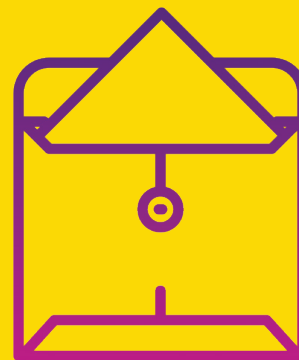
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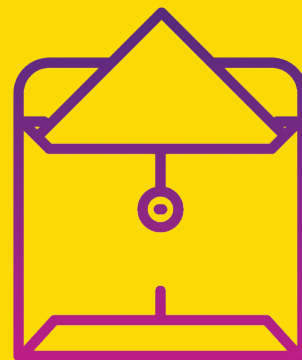
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1. Introduction



1. INTRODUCTION

Acharya Narendra Dev College (ANDC), affiliated with the University of Delhi, stands as a beacon of academic excellence, providing a dynamic educational environment that encourages growth, learning, and research. The college is recognized for its strong academic foundation and has been ranked as the 19th Best Science College in India by the India Today survey based study this year besides garnering 21st position under the National Institutional Ranking Framework (NIRF) of Ministry of Education, Govt. of India. The College is STAR STATUS since 2021 and the funding received from these schemes has been utilized to develop following Skill centres in the college: Mushroom Research and Skill Development Centre, Zebrafish Culture Facility, Sericulture Skill Enhancement Centre, Central Instrumentation Facility (Physical Science and Life Science) and Language Lab. Under this scheme, the college has also established state-of-the-art laboratories for Skill Enhancement, including PCB Design and Fabrication Lab, Artificial Intelligence Lab, and Internet of Things (IoT) Lab. The college has established *Acharya Narendra Dev Kaushal Kendra*, under central component of *Pradhan Mantri Kaushal Vikas Yojana* 3.0 (PMKVY 3.0) through National Skill Development Corporation (NSDC). It aims to provide skill development and vocational training opportunities to target population segments from school dropouts and out-of-education candidates. *Acharya Narendra Dev Kaushal Kendra*, is selected as a Training Provider for Web Developer Course, and a batch of 19 students has successfully completed the course in 2022. The college has also conducted 3 value addition courses, namely Research Methodology, Tools and Techniques in Biological Sciences and Basics in Research Methodology. The aim of the course was to teach students outside of the classroom and aided them in developing their capacity to carry out useful research. The course inspired them to consider a career in research. These Courses were conducted for both Life Science and Physical Science students, and were designed and taught by 16 Prime Minister Research Fellows (PMRF), IIT Delhi. Several digital initiatives like Virtual lab at ANDC (V-Lab@ANDC) have also been taken by the college to conceptualize the idea of Virtual lab to provide remote access of various labs to the undergraduate science students through the internet, and thus became the first college in the University of Delhi to start V-Lab at its campus. The course structure of various labs and experiments available on V-Lab@ANDC is futuristic, following a four quadrant model for e-content, and is developed considering the National Education Policy (NEP)-2020. V-Lab@ANDC website is created and maintained by our own students for four domains i.e. Biological Science, Chemical Science, Electronics and Physical Science which include seven departments i.e. Biomedical Science, Botany, Chemistry, Computer Science, Electronics, Physics and Zoology. So far, 37 V-Labs have been created and are available for public access on college website.

Research is an integral part of ANDC's academic ethos and college provides a conducive environment for both faculty and students to engage in meaningful research projects. Research projects with a funding of about two crores from external funding agencies are presently running in the college. This year four students mentored under the guidance of ANDC faculties have been awarded Ph.D., one student has been awarded M.Phil. degree, two have submitted their thesis, and at present 45 Ph.D. students are enrolled in the Ph.D. program in the college. ANDC faculty have authored 278 research publications in prestigious journals of international repute, books, conference proceedings and papers presented in conferences in this year. The outcome of prolific research activities is that, the 28 faculty members of the college are promoted to Professors. New research wing has been created for the faculty of the college. The following research labs are inaugurated in this year:

- (1) Computational and Synthetic Chemistry Lab
- (2) Device Modelling and Simulation Lab
- (3) Thalassemia and Cancer Screening Lab

- (4) Advance Chemistry Research Lab
- (5) Mathematics Research Centre

College is also running a full-fledged business incubator, ANDC-inStart Foundation. Within the brief period since its inception in June 2017, the entity has efficiently evaluated and reviewed a total of **74** start-up proposals. Notably, it has successfully incubated **16** start-ups, extending financial support to **09** among them, with a collective commitment amounting to INR 91 lakhs. A remarkable testament to its dedication, the establishment has offered over 100 hours of mentorship to pre-incubatees, spearheaded more than **26** events, and orchestrated **15** sessions involving external experts. The impactful resonance of its efforts becomes evident in the astounding figures: the incubated start-ups have generated substantial revenue of INR 32.62 crores, a feat that harmonizes with the creation of over **200** jobs within this ecosystem.

Prof. Urmi Bajpai was Featured among 35 *Vigyan Vidushis* in the country as Future Hopes 2023 by *Vigyan Prasar*, Department of Science and Technology (DST), Government of India. She was also awarded SBRT fellow by Indian Bacteriophage Society for Distinguished and Sustained contribution to Bacteriophage Science Communication on November 27, 2022. Prof. Gagan Dhawan was awarded INSA teachers' award by Indian National Science Academy. He is now on deputation as Registrar in Delhi Skill and Entrepreneurship University (DSEU). Prof. Shallu Sachdeva was awarded Global academic Research Excellence Award of Best Faculty in Chemical Sciences by MKSES Educational Society, Lucknow. She has also been awarded Proud Indian Iconic Reader and Researcher Award 2023 by Ratna Prasad Multidisciplinary Research and Educational Society. Dr. Sunita Jetly was awarded *Shikshak Samman* by Lions international on September 12, 2022.

UG research is also gaining new heights with schemes like DBT and SPIE. To promote scientific communication, and enhance students' exposure to scientific world, the college under DBT has conducted **67** interdisciplinary projects this year, organized more than **100** workshops, seminars, conferences, outreach activities and invited talks. The college also hosted **2** international e-conferences this year – INSCR 2022 and ISCB 2022. College has taken special efforts to organize outreach activities for rural children of Bani and Biar of Hamirpur district of Uttarakhand. College has conducted five National level Workshops/Conferences for training the students, faculty and non-teaching staff. This year, the SPIE chapter has again been selected for the Optics Education Outreach Grant from SPIE, USA. The purpose of this grant is to promote optics through workshops where the school students can understand the basics of geometrical optics and can make optical instruments like telescope, microscope and solar lanterns. The SPIE Student Chapter, University of Delhi at ANDC was the runner up for President Award 2023, being amongst the three best chapters from 340 chapters worldwide. During the centenary culmination function, 3-D printer was demonstrated by the students of ANDC to the Honourable Prime Minister, Mr Narendra Modi. Students created optical chopper using 3-D printer that has reduced its cost. It was appreciated by all the dignitaries

ANDC believes in the holistic development of students, recognizing the importance of extracurricular and co-curricular activities alongside academic pursuits. This year **9** students have bagged Merit Positions in the University of Delhi (DU) and **18** students have got Merit Positions in the University of Delhi South Campus (UDSC). **03** students have been awarded Meritorious Students Award by Directorate of Higher Education, Government of NCT of Delhi and 7 students have been granted fellowship by the Faculty of Science, **58** students in the in the category of Scheduled Caste, Scheduled Tribes, Other Backward Classes and Persons with Disabilities received support for their education

from scholarship scheme of HPCL. Students have also received fellowships from POSE and INSPIRE. This year UG students' have also published their research findings in Journals of International repute. They have also presented their work in several national and International Conferences.

UBA@ANDC is presently working for the upliftment of four designated urban slums of south Delhi (Okhla Industrial Area, Govindpuri Slums, Pul Pehlad Pur and Tajpur Pahari Badarpur). It does regular survey in these villages for health education, PAN/AADHAR card procurement procedures and *swachhta abhiyan*. Awareness about cancer and thalassemia prevention is also done. Regular stationary and cloth drives are undertaken as per the assessed situation. UBA also undertakes weekly food drives for slums of Noida which includes serving healthy food. During Covid, online classes were taken for the benefit of school children.

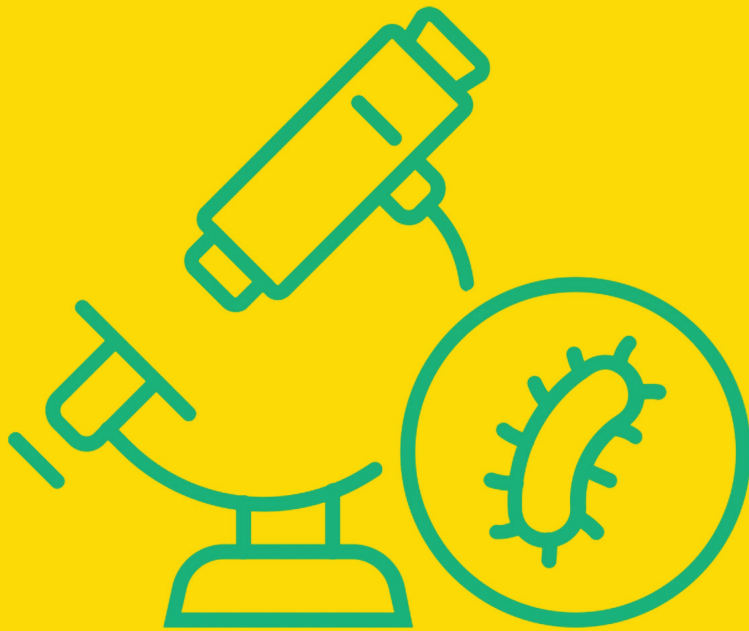
The College also has an active Career Counselling and Placement Cell that tries to understand the career objectives of the students, keeping in mind the current trends in the corporate world. Although our students are opting to higher studies more than the jobs, but on the brighter side, large number of students attended recruitment and pre-placement drives. Placement cell has organised career counselling talks and sessions like '**Career In Civil Services**' with Adda 24|7 (IAS) for their future preparation in various fields. Webinars have been conducted often to enlighten and familiarize students with the corporate world. Placement cell also provides a platform for some add-on courses which are free of cost to the students such as "**Google Career Certificate courses**" in collaboration with TATA Strive.

This year 22 students were selected via campus interviews so far. The companies that approached ANDC placement cell this year were **Accenture, Wipro Limited, Dell Technologies, NTPC Vidyut Vyapar Nigam Ltd., Unacademy, Byju's, Monster.com, Morgan Stanley, Swiggy, Infosys, Kotak Mahindra Bank, ICICI Lombard General Insurance Company Limited, NatWest (RBS)** to name a few. Various opportunities have been given for online internships as well. Students get registered with Internshala, University of Delhi and have completed internships with different reputed companies throughout the year to boost up their career.

The College has signed several Memorandum of Understanding (MoU) with National and International institutes like NII, THISTI, Auburn University Montgonery, International Bacteriophage Research Consortium, NPTEL-SWAYAM, Azim Premji University, School of Open Learning, and IIT-DELHI. The College also has industrial collaboration with companies like PhiXgen Pvt. Ltd. etc.

In conclusion, Acharya Narendra Dev College stands as a beacon of academic excellence, shaping the future of countless students and contributing significantly to the field of education in India.

2. *Research and Entrepreneurship*



2. RESEARCH AND ENTREPRENEURSHIP

2.1 Research

2.1.1 Research Initiatives at the UG Level: Interdisciplinary Projects under DBT STAR College Scheme/ELITE

The Star College Scheme was introduced by DBT to improve teaching learning methods in the science colleges and to encourage students to pursue higher education in science. Acharya Narendra Dev College being part of the DBT Star College scheme since 2017 conducts several Interdisciplinary Projects and provide research exposure to students at UG level. ELITE is a research fellowship scheme initiated by college in 2012 to motivate students to take up summer projects under the mentorship of faculty during vacations. Under this scheme, a stipend of Rs. 1,000/- per month is offered to every student who enrolls for the program. Following is the list of projects carried out by the UG students under the mentorship of the faculty of college.

For detailed information see section- 6.2.5

2.1.2 Research Projects

ANDC faculty has bagged many research projects from external funding agencies which also supplement the funds available for infrastructural development of the college. Following are the ongoing research projects which are funded by external funding agencies:

S. No.	Investigator	Title of Project	Funding Agency	Grant (in Lakhs)
1	Prof. Urmi Bajpai (Biomedical Science)	A Multi-Institution Project: An investigational study on Mycobacteriophages and their enzymes as new drug (IND) for treating tuberculosis.	Indian Council of Medical Research	22.16
2	Prof. Sarita Kumar, (PI) Mr R. K. Sagar (Co-PI) (Zoology)	Attractive Toxic Sugar Bait (ATSB) methods to control mosquitoes in different regions of Delhi and NCR	Indian Council of Medical Research	39.34
3	Prof. Seema Makhija Prof. Ravi Toteja (Zoology)	DNA Barcoding for ciliate species identification of Delhi, India	SERB, Department of Science and Technology	41.9

4	Dr Sunita Jetly (Co-PI) (Biomedical Science)	Medical awareness, capability, patient empowerment and partnership for managing cancer through e-learning demonstrations and public awareness events	NCST, Department of Science and Technology	19.6
5	Dr Sandeep Kumar Goel (Co-PI) (Commerce)	Faculty Research Programme (FRP) of the IoE Scheme	University of Delhi	2.0
6	Prof. Arijit Chowdhuri (Co-PI) (Physics)	Development of process and evaluation of electron suppression coating on the grids used in TWTs [MTRDC / MMG / 20206 / CARS / LPO/125/2021- 22/ BUP]	Defence Research & Development Organization (DRDO)	23.58
7		Fabrication of packaged high frequency SAW devices of given specification [1115/TS/SPL/CARS-98/2022]	Defence Research & Development Organization (DRDO)	36.29
8		Development of thermoelectric energy harvester using Indium Selenide thin films [CRG/2022/005474]	Department of Science and Technology (DST)	32.00
9		Development of process and evaluation of electron suppression coating on the grids used in TWTs [MTRDC / MMG / 20206 / CARS / LPO/125/2021- 22/ BUP]	Defence Research & Development Organization (DRDO)	23.58

2.1.3 Research Supervision

2.1.3.1 Post-Doctoral Fellows under the Supervision of College Faculty

S. No.	Post-Doctoral fellow	Supervisor (Department)	Area of work	Registration (month, year)
1	Dr Monika Mishra (CSIR-SRA)	Prof. Sarita Kumar (Zoology)	Physiological, biochemical and molecular response of <i>Helicoverpa armigera</i> Hübner to synergistic combinations of triflumuron and β -sitosterol	January, 2021

2.1.3.2 Ph.D. Students Enrolled under the Supervision of College Faculty

S. No.	Ph.D. student	Supervisor (Department)	Area of work	Registration (month, year)
1	Ms Ritu Arora UGC-SRF	Prof. Urmi Bajpai (Biomedical Science)	Bacteriophage lysins	November, 2017
2	Mr Nawab Ziya Khan		Cancer metabolomics	November, 2019
3	Ms Kanika Nadar		Mycobacteriophages	April, 2021
4	Ms Bhawana Saini	Dr Sunita Jetly (Biomedical Science)	Thalassemia	March, 2023
5	Ms Rinmi Kasar		Thalassemia	September, 2023

6	Mr Harekrushna Jena	Prof. Gagan Dhawan (Biomedical Science)	Design and development of synthetic vectors for the delivery of biomolecules	March, 2019
7	Ms Akanksha Negi		Polymeric nanoparticles: Design, synthesis and their applications in drug delivery	February, 2022
8	Ms Vadant Soni		Role of microbiota-derived metabolites in immune checkpoint blockade immunotherapy of colorectal cancer	February, 2022
9	Mr Nitin Joshi	Prof. Charu Khosla Gupta (Botany)	Assessing the impact of Climate change on some native tree species of Delhi	March, 2022
10	Ms. Anjana Singh	Dr Yasheshwar (Botany)	Molecular characterisation of viruses infecting periwinkle (<i>Catharanthus roseus</i> L.) and alteration in secondary metabolites profile	December, 2020
11	Mr Amit Kumar Paswan	Dr Sandeep Kumar Goel (Commerce)	Finance	January, 2023
12	Ms Kirti Jain	Prof. Sharanjit Kaur (Computer Science) Co-Supervisor	Network analysis	November, 2018

13	Mr Sumit Vashista	Prof. Anju Agrawal (Electronics)	Design and Simulation of Acoustic Emission Sensor for Geohazard Surveillance	January, 2023
14	Ms Rupali Pandey	Prof. Amit Garg (Electronics)	Synthesis and Characterization of 2D Materials and their Applications	March, 2021
15	Mr Sandeep Singhanian		Role of Functional Group in Gas Sensing of 2D Materials	January, 2022
16	Ms Preeti Bharati		Growth and Characterization of GaN based High Electron Mobility Transistors	January, 2022
17	Ms Anju		Engineered 2D Materials for Smart Biosensing	January, 2022
18	Ms Ragini		2D material based Electrochemical and Spintronic	March, 2023
19	Mr Ajay Kumar	Prof. Udaibir Singh (Electronics)	Fabrication and Modelling of Perovskite based Solar Cell	October, 2018
20	Mr Dinesh Kumar		Synthesis and Characterization of polymer nanocomposites thin film and its application	May, 2019

21	Ms Bhawna Singh	Prof. Sada Nand Prasad (Mathematics)	Non-Linear Dynamics	February, 2021
22	Mr Itender Kumar		Dynamical System	February, 2021
23	Ms Sonia Aneja		Dynamical System	January, 2022
24	Ms Preeti Yadav		Non-Linear Dynamics	January, 2022
25	Ms Pooja Khoda		Non-Linear Dynamics	February, 2023

26	Mr Gurudatt Rao Ambedkar	Dr Chaman Singh (Mathematics)	Optimization	February, 2021
27	Ms Jyoti Kohli		Optimization	February, 2022
28	Ms Garima Sethi		Inventory Control and Management	July, 2021
29	Mr Brijendra Yadav		Optimization	January, 2023
30	Mr Rohit Miglani	Prof. Arijit Chowdhuri (Physics)	Functional materials for Microwave Resonator	January, 2019
31	Mr Ajay K. Sao		Development of sensing layers for detection of chemical warfare (CW) agents/ simulants	January, 2019
32	Mr Jatinder Pal Singh		Growth and characterization of some 2D materials for sensing applications	March, 2021

33	Ms Kungreiliu Panmei	Prof. Sarita Kumar (Zoology)	Effect of lufenuron on the growth and development of <i>Aedes aegypti</i>	March, 2018
34	Ms P. Lanbiliu		Effects of synergistic combinations of an IGR and beta-cyfluthrin on the growth and development of red cotton bug, <i>Dysdercus koenigii</i> (Fabr.) (Hemiptera: Pyrrhocoridae)	November, 2018
35	Mr Manu Sankar		Characterization of diflubenzuron resistance in dengue vector, <i>Aedes aegypti</i> L. (Diptera: Culicidae)	November, 2019
36	Ms Jyoti Falswal		Taxonomic studies of non- <i>Apis</i> bees pollinators from North India	November, 2019
37	Mr Sanjay Kumar		Evaluation of the effects of Insect Growth Regulator on mosquito, <i>Aedes aegypti</i> L.	January, 2021
38	Ms Divya Yadav		Identification of novel insecticide targets in mosquitoes	March, 2022
39	Ms Harsha	Prof. Monisha Khanna Kapur (Zoology)	Bioactive potential of <i>Streptomyces</i> spp. against diverse pathogenic fungi	March, 2022

40	Ms Swati Maurya	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Microorganisms as Bioindicators in Diverse Environments	April, 2018
41	Mr Sandeep		Ecotoxicological studies on ciliates	January, 2021
42	Ms Jyoti Dagar		DNA Barcoding for ciliate species identification of India	February 2023
43	Mr Hritik Kadian	Prof. Ravi Toteja (Zoology) (Co-Supervisor)	Assessing the Resistance, Tolerance and Bioremediation Ability of Selective Bioindicator Species (Algae, Ciliates and Macrophytes) to Different Persistent Bio-Accumulative and Toxic Substances	December, 2021
44	Mr Ajay	Prof. Seema Makhija (Zoology) (Co-Supervisor)	Use of Freshwater Macrophytes for Fish Food Formulation	February, 2023
45	Ms Bhumika	Dr Monica Misra (Zoology) Co-supervisor	Morphological and Molecular studies on Intestina parasites of freshwater fish, Channa striata (Snakehead Murrel) from Meerut region	March, 2022

2.1.3.3 Ph.D. Thesis Submitted under the Supervision of College Faculty

S. No.	Name of student	Supervisor (Department)	Thesis title	Thesis Submission (Month, Year)
1	Ms Nishtha Agrawal	Prof. Gagan Dhawan (Biomedical Science)	Modulating host signaling cascade: Potential antiviral tool against Chikungunya virus	June, 2023

2	Ms Jyoti Kashyap	Prof. Udaibir Singh (Electronics)	Study and Analysis of Absorption Enhancement by surface texturization in Solar Cell structure.	December 2022
3	Ms Shiva Lamichhane	Prof. Arijit Chowdhuri (Physics)	Multicomponent Oxide Thin Films for Functional Device Applications	July, 2023

2.1.3.4 Ph.D. /M.Phil. Degree Awarded under the Supervision of College Faculty

(a) Ph.D Degree awarded

S. No.	Name of student	Supervisor (Department)	Thesis title	Degree Awarded (Month, Year)
1	Mr Sahil Kohli	Prof. Sunita Hooda (Chemistry)	Metal Based Nano-composites For The Green Synthesis of Biologically Active Heterocycles	February, 2023
2	Ms Manju Rani	Prof. Udaibir Singh (Electronics)	Investigation of Optical and Electrical properties of Silicon based Plasmaonic Solar Cells using FDTD method	August, 2022
3	Ms Kamna Sharma	Dr Chaman Singh (Mathematics)	Development and Analysis of production inventory model with product stewardship and green design	December, 2022

4	Mr Vinay Singh Dagar	Prof. Sarita Kumar (Zoology)	Studies on the Growth Regulatory effects of Emamectin Benzoate on the cotton bollworm, <i>Helicoverpa armigera</i> (Hübner)	January, 2023
5	Mr Munendra Kumar	Prof. Monisha Khanna Kapur (Zoology)	Molecular analyses of extracellular chitinases and antifungal compounds from <i>Streptomyces</i> spp.	September, 2022

(b) M.Phil. Degree Awarded

S. No.	Name of student	Supervisor (Department)	Dissertation title	Degree Awarded (Month, Year)
1	Ms Pooja Khoda	Prof. Sada Nand Prasad (Mathematics)	Dynamical Behaviour of Tuberculosis Model with Different Fractional Derivatives	April, 2023

2.1.3.5 External Students Trained under ANDC Faculty

S. No.	Candidate	Supervisor (Department)	Project title
1	Mr Imaad M.Sc. (Biotechnology), Central University of Haryana (February-June, 2023)	Prof. Urmi Bajpai (Biomedical Science)	Cloning, expression and purification of Mycobacteriophage-encoded Lysin enzyme
2	Ms Shreya Saxena M.Sc. (Biotechnology), Banasthali (January-June, 2023)		Isolation and Characterization of Novel Mycobacteriophages and <i>In vitro</i> Analysis of Recombinant LysinB
3	Ms Nishitha M.Sc. Amity University	Prof. Geetu Gambhir (Chemistry)	Tamarind (TKP) based nano-composite for mitigation of Dyes from waste water Magnetic Tamarind (TKP) -GO biocomposite for mitigation of Dyes

4	Mr Mayank Singh Pundir, BITS Pilani	Ms Preeti Marwaha (Computer Science)	Use of Machine Learning and Knowledge Representation techniques to classify and organize the microbial information of polluted Soil and Water in Delhi
5	Mr Raghav Aggarwal Jaysal Manchanda	Prof. Anju Agrawal Dr Ravneet Kaur (Electronics)	Portfolio Website Development
6	Mr Beenit Kushwaha (Galgotia's University)	Prof. Monisha Khanna Kapur (Zoology)	Basic Techniques of Laboratory, Tenure: 1 month from July 04-August 04, 2023

7	Mr Merwin Mammen Mathew M.Sc. Microbiology Department of Biosciences, Jamia Milia Islamia, New Delhi	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Identification of bacterial species growing in Pringsheim's medium which serve as prey for ciliates
8	Mr Ankush M.Sc. Biotechnology Department of Biotechnology, School of Interdisciplinary and Applied Life Sciences, Central University of Haryana, Mahendragarh, Haryana		Physico-chemical properties of soil and identification of soil ciliates from morphologically and molecular systematics
9	Ms Nidhi Bisht M.Sc. Biotechnology Graphic Era (Deemed to be University), Dehradun		To Study the Effects of Chromium and Arsenic on Eukaryotic Microbes, Paramecium sp. and Tetramena sp.
10	Ms Akshita M.Sc. Biotechnology Graphic Era (Deemed to be University), Dehradun		To study water quality parameters and ciliate diversity in the Delhi NCR stretch of river Yamuna, India
11	Ms Simran Chopra B.Sc. (Prog.) Life Sciences, II Year Miranda House, University of Delhi, Delhi		Basic culturing and identification techniques for ciliates

2.2 Entrepreneurship

2.2.1 E-Lab@ANDC

2.2.1.1 Recruitment Drive- Recruitment drive was started by circulating Google forms through the official WhatsApp groups and was open for the students of all departments. Many students of the college took part in the process but only a few were able to secure a post in E-Lab. This was followed by a two-day offline personal interview session from December 11-12, 2022. An online interview session also took place for the students who were unable to attend offline interview. The interview was taken by the core team of E-lab of Acharya Narendra Dev College. Results of the same was declared on December 25, 2022.

2.2.1.2 School to Campus PG Education Fair- The S2C- School To Campus event was organized by Entrepreneurship Lab, Acharya Narendra Dev College on February 08, 2023 with School2school-

campus which is a prestigious organisation. The event was a great success and was attended by a large number of students, faculty members and representatives from various educational institutions.

In this event, representatives from many universities came to guide students through their journey for perfect post- graduation. Universities from United States, United Kingdom including FDDI, Alchemist, IILM University, Sharda University and many more came to participate in the event. The purpose of this event was to provide students with information about post education options and opportunities and to interact with representatives from various educational institutions and gather information about different courses and programs offered by them.

There were 8 stalls in total and the representatives from the educational institutions were available at the stalls to answer questions from students and provide them with information about their institutions. The students were also provided with brochures and other promotional materials that provided detailed information about the courses and programs offered. The event was well-received by the students, who got the opportunity to gather information about different courses and programs. The students also got the opportunity to interact with representatives from the educational institutions and ask questions about their programs and services.

2.2.1.3 Trailblaze 2023- Trailblaze is the annual fest of E-cell, ANDC. It started with the speaker session named tea with tycoon. The guest speaker for our flagship event was Mr Mukul Chhabra, the founder of Scrap Uncle. Mukul Chhabra was one of the participants of Shark Tank India season 2. He shared his experience with the students which encouraged and guided them to be a young entrepreneur.

2.2.1.4 Project/Initiate by Entrepreneurship Lab's Students

2.2.1.4.1 BookWithUVA

- 'BookWithUVA' was founded on August 29, 2022 by Abhishek Kumar and Uttam Srivastava, the students of Acharya Narendra Dev College (University of Delhi) under the mentorship of Entrepreneurship Lab of the college.
- BookWithUVA is a student centric stationery-based startup to ease the students, to get the books, notebooks and other study material delivered at their institution itself, that too at a price lower than the market price. It also provides services such as book renting and book reselling.
- They have served more than 7,000 students catering more than 10,000 orders across different colleges of University of Delhi, SOL and IGNOU and crossed the turnover of Rs. 13 Lacs in last 1 year.
- Their aim is to develop an innovative delivery system by streamlining the process of ordering books and making it more accessible. They seek to provide a user-friendly ordering process to cater a wider audience, with a special emphasis on students.
- Serving thousands of students at present, BookWithUVA strives to serve millions in future by revolutionizing the way students get their study materials.

2.2.1.4.2 Delhi University Gaming

- Delhi University Gaming is a gaming community and e-sports Organization that supports gamers

and gaming enthusiasts within the University of Delhi and throughout India. The organization is involved in broadcasting and organizing tournaments, with a focus on their Intellectual Property (IP).

2.2.1.4.3 P-Fect Outfit

- Another startup by E-Lab members of ANDC to provide the students with customized t-shirts, hoodies, caps etc. at reasonable prices delivered to the students at the earliest possible.

2.2.2 ANDC in Start Foundation (AIF)

The ANDC inStart Foundation (AIF) is a Business Incubator setup as a Section 8 company under the Companies Act, 2013, incorporated on June 19, 2017. Acharya Narendra Dev College was selected to setup a business incubator by Govt. of NCT of Delhi for supporting and funding start-ups and promoting entrepreneurship.

AIF aims to promote entrepreneurship and entrepreneurial ventures among the students of the host institution (ANDC) and beyond in an inclusive and beneficial manner.

2.2.2.1 Initiatives taken by AIF from July 2022 to June 2023

- Sixteen start-ups registered as companies are being incubated.
- AIF sensitized over 220 students in respect of start-ups and entrepreneurship.

2.2.2.2 Details about the Board of Directors and CEO

S. No.	Name	Position Held
1	Prof. Amit Garg	Chairperson
2	Prof. Arijit Chowdhuri	Director
3	Prof. Seema Gupta	Director
4	Dr Rajesh Chaudhary	Director
5	Dr Sandeep Kumar Goel	Director
6	Mr Sanjay Vohra	Executive Director
7	Mr Dhruv Rana	CEO

2.2.2.3 Events Organised by AIF from July 2022 to June 2023

S. No.	Name of Event	Date	Topic	Number of Participants
1	Foundation Programme: Doing Business and Role of Incubators at JIMS, Kalkaji	June 30, 2023	Entrepreneurship	30

2	Doing Business and Role of Incubators	June 21, 2023	Entrepreneurship	25
3	Opportunities with SCII Joint Programme with AIF	April 22, 2023	Entrepreneurship and Networking	20
4	Round Table Discussion on Entrepreneurship, Innovation, Incubator, and Start up Ecosystem in India	April 17, 2023	Entrepreneurship	25
5	Free Online Course on Embedded System	March, 2023	STM 32 and Other Microcontroller	60
6	Applications of Internet of Things in Smart Cities	March 25, 2023	Use of IoT	25
7	Incubatees and Pre incubatees Interaction TSD SCII Singapore delegation	August 18, 2022	Entrepreneurship	15
8	Design The Thinking- Leveraging Design Thinking for Customer Development	July 15, 2022	Entrepreneurship	20

2.2.2.4 AIF's Associations and Tie-Ups entered into between July 2022 and June 2023

- MOU in 2022 was executed between TSD Consulting LLP, a Singapore based entity and AIF to establish the "AIF- TSD SCII Hub" in order to create Centres of Excellence (COE) within partner institutions in NCR. The two initial COEs that are to be established, are as follows:

1. Center for Quality Education, Life-Long Learning, Skills Training, and Professional Development
2. Co-working and Business Center for Entrepreneurship, Startup, Ventures and Investments
 - AIF launched nine separate Skill Development - Summer Training Programmes with its industry partner HexnBit with an additional discount of 10% for ANDC students, to be borne by AIF.

2.2.2.5 Major Achievements of AIF's Incubated Startups (Incubatees)

- **KhiladiAdda**
An e-gaming platform started by AND college students has performed exceptionally well in the last few months during which its revenues have grown over 400 times as monthly revenue.
- **Metvy**
An online platform offering skill development courses has raised a seed round.

- **WePark**

1. Patented its product.
2. Received approval from India's largest public sector Bank - State Bank of India and YES Bank to launch co-branded prepaid cards to enable seamless vehicle parking using Tap-in-Tap-out feature of the card which will be on National Common Mobility Card (NCMC) platform.

- **Elpida:**

Opened ElpidaMart showrooms in collaboration with WallMart

Our Incubatees have become job creators and have created over **200+ jobs**.

3. Collaborations with National and International Organizations



3. COLLABORATIONS WITH NATIONAL AND INTERNATIONAL ORGANIZATIONS

3.1 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 programme would encourage international credit transfer and progression arrangements, academic articulation agreements for various programmes, the exchange of research and academic materials of mutual interest, to collaborate and foster research activities and projects, exchange of teaching expertise, development of e-learning training, and application of distance learning.

3.2 MoU with International Bacteriophage Research Consortium (International)

MoU between Acharya Narendra Dev College, University of Delhi and Open Health System Laboratory (OHSL), a social benefit corporation established under the laws of the state of California in the United States of America covers collaboration to establish an International Bacteriophage Research Consortium (IBRC) and pursue further research. Working together ANDC-DU and OHSL will be developing funding proposals to support and equip research and research facilities at the drug discovery laboratory of the Department of Biomedical Sciences and complementary facilities at the International Research centre of Open Health System Laboratory which will be established in Jhajjar, Haryana in the Indian Institute of Technology, Delhi Biotechnology, and Park. ANDC-DU and OHSL have already created a web portal for IBRC with the url: <https://ohsl.us/bacteriophage/international-bacteriophage-research-consortium>.

3.3 MoU with NII (Science-Setu Programme)

Coordinators: Prof. Seema Makhija, Dr Archana Pandey

The 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. The main objective is to support the national initiative to entice more and more talented young minds to choose a profession in Science and Technology. The endeavour would take into account the evolving requirements of biological sciences education, learning, and research. Additionally, it would support the delivery of innovation, research, and continual improvement by involving a talent pool of future Biology students. In addition, the endeavour will integrate the undergraduate teaching in Biology to the NII in the idea of “success through access. The programme will use on-site and/or online learning methods to accomplish its goals and objectives (depending upon the feasibility). Lectures and discussions, laboratory exercises, summer student and teacher internships, mentorship for student and teacher Science Projects, career opportunities, cutting edge teaching and research methodologies, Science and technology policy concerns are all possible under the programme. Other relevant activities are another option, as long as it is mutually agreed upon. The programme will inculcate the value of Science among students and help them to choose a profession in Science.

3.4 MoU with THSTI (Science-Setu Programme)

Coordinators From ANDC: Prof. Urmi Bajpai, Dr Anupama Shukla, Prof. Seema Makhija, Dr

Satendra Singh, Dr Sumit Sahni, Dr Rahul Dev

The Science Setu programme is an initiative undertaken by the Translational Health Science Technology Institute (THSTI) wherein the scientists share their research interests with the undergraduate students and faculty members of Acharya Narendra Dev College. A one-day workshop was organized by the Translational Health Science and Technology Institute (THSTI) in collaboration with Cell for IPR Promotion and Management (CIPAM), the Department for Promotion of Industry and Internal Trade (DPIIT), the Ministry of Commerce and Industry, Government of India. Under Science-Setu, a workshop was organized on August 22, 2022, at the Translational Health Science and Technology Institute (THSTI). The theme of the workshop was “Roadmap for Patent Creation”. About 100 students from different courses (including PhD scholars) participated in the workshop. Each participant was provided with a certificate.

3.5 Collaboration with IIT, Delhi for creation of Virtual Labs

Coordinators: Prof. Seema Makhija, Dr Sumit Sahni, Dr Vineet Kumar Singh

Unnatural circumstances need innovative solutions and COVID-19 brought such a situation for academics where normal offline education came to a halt. Theoretical concepts can still be delivered to students through the online mode but for understanding various concepts, practical hands-on is a must. ANDC, under the able vision of our principal Prof. Ravi Toteja conceptualized the idea of Virtual lab (V-lab) to provide remote access of various labs to the undergraduate Science students through the internet under the aegis of DBT-STAR scheme. The virtual labs were initiated with the collaboration with Virtual Labs, IIT-Delhi (an initiative of MoE, under NMEICT). The approval of being the Nodal Centre for the Virtual Labs was received from IIT-Delhi on September 13, 2021.

V-Lab@ANDC is being coordinated by Prof. Seema Makhija, Dr Sumit Sahni and Dr Vineet Kumar Singh. Acharya Narendra Dev College is the first college in the University of Delhi to start V-Lab on its campus.

Virtual lab allows the student to understand, learn and perform the practical on their own remotely with a click of the mouse and students can even assess themselves about their learning. It provides a complete Learning Management System (LMS) where students can avail the various learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation. Web enabled experiments have been designed for remote operation and viewing so as to enthuse curiosity and innovation into students. It encourages students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.

The course structure of various labs and experiments available on V-Lab@ANDC is futuristic, following the four quadrant model for e-content and is developed considering the National Education Policy (NEP)-2020.

V-Lab@ANDC website is created and maintained by our own students for four domains i.e. Biological Science, Chemical Science, Electronics and Physical Science which include seven departments i.e. Biomedical Science, Botany, Chemistry, Computer Science, Electronics, Physics and Zoology.

Although the V-Lab@ANDC was initiated to tackle the COVID related problems in the teaching and learning process but is not confined to it. Students now can perform their experiments 24 X 7, on

even sophisticated and expensive instruments, multiple times and at their ease without wasting the resources and can even generate the measured data for atleast few experiments.

Through V-Lab@ANDC we are proving the ideology of our college 'Preparing for the future' by exploring and innovating 'Beyond the classroom', rather 'Beyond the Practical Lab'.

ANDC signed a MoU with Virtual Labs, IIT-Delhi, a Ministry of Education, Government of India, initiative on September 13, 2021. Our college has been designated as a Nodal centre for Virtual Labs and Dr Sumit Sahni has been accepted to act as the Nodal coordinator. The MoU reads about usage of existing V-Lab infrastructure of IIT-Delhi for creating better teaching learning ecosystem, enhance the students' understanding of the concept, regular usage and feedback of the used V-Labs and development of V-Labs in untouched areas and topics. Our college has developed a designated website for the V-labs (V-Lab@ANDC) and more than 40 labs have been developed and uploaded on the website under this MoU. Most of the V-Labs are desktop as well as mobile friendly. JavaScript, HTML and CSS have been used in the development of these labs and heptatics are also used wherever required to give the students a feeling of doing the experiments as if they are doing it in a lab. The future plans of V-Lab@ANDC include converting the complete curriculum of all the undergraduate practical course in V-Labs and after that enhancing the quality of these labs by converting them to Virtual Reality (VR) and Augmented Reality (AR).

3.6 MoU with Entrepreneurship Cell, School of Open Learning, University of Delhi

Coordinator: Dr Sada Nand Prasad

ANDC, in collaboration with Entrepreneurship Cell, School of Open Learning, and University of Delhi will be offering a certificate course in entrepreneurship and start up under the UGC scheme of National Skills Qualifications Framework. The course can be done after 10+2 and will be of six months duration. This collaboration will also provide the potential entrepreneurs from ANDC with assistance in availing the entrepreneurship schemes by central and state governments.

3.7 University of Delhi @ ANDC SPIE Student Chapter

Coordinator: Prof. Amit Garg

SPIE Office Bearers:

1. President- Ankush Rana, B.Sc. (H) Electronics, III Year
2. Vice-President- Sakshi Garg, B.Sc. Physical Science with Computer Science, III Year
3. Secretary- Kalpajit Roy, B.Sc. (H) Physics, III Year
4. Treasurer- Iftexhar Ali, B.Sc. (H) Electronic, III Year
5. Technical Officer- Divyansh Rajput, B.Sc. (Prog.) Physical Sciences with Electronics, III Year
6. Editorial Officer- Naman Sirohi, B.Sc. (H) Electronics, II Year

Executive Team:

1. Harsh Bamotra, B.Sc. (H) Computer Science, III Year
2. Mayank Rathi, B.Sc. (H) Mathematics, II Year
3. Ayush Chaudhury, B.Sc. (Prog.) Physical Sciences with Computer Science, II Year
4. Prashant Tiwari, B.Sc. (H) Biomedical Science, II Year
5. Rimjhim Shukla, B.Sc. (Prog.) Life Science, II Year

Existing Members-51

SPIE Optics Education Outreach Grant 2023

This year, the chapter has again been selected for the **Optics Education Outreach Grant from SPIE, USA**. The purpose of this grant is to promote optics through workshops where the school students can understand the basics of geometrical optics and can make optical instruments like telescope, microscope and solar lanterns.

Runner-up for SPIE Presidential Award 2023

The SPIE Student Chapter, University of Delhi at ANDC was the runner up for President Award 2023, being amongst the three best chapters from 340 chapters worldwide.

Student Award to SPIE Members

Best Paper Award

SPIE members Divyansh Rajput and Sakshi Garg attended the “One Earth - One Family - One Future” Conference organized by Acharya Narendra Dev College and Delhi School of Economics in Collaboration with The Indian Commerce Association, Delhi NCR Chapter held on April 03, 2023. The members presented their work to the jury through a presentation, demonstrating the results of their research paper on “Drone Designing using 3D Printing Technology”. The comparison between the original propellers and the custom 3D-printed propellers was charted and filmed by video footage of the flight test in both cases. For this work; the duo was awarded the Best Paper Award at the conclusion of the conference.

Best Paper Award - Data Science Conference

SPIE members Sakshi Garg, Akash Jha, Ankush Rana and Alok Singh, won the award of “Best paper presentation in Data Science and Artificial Intelligence” at an International seminar on Technology for Environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities in Society and Rural Environment held in Sri Aurobindo College, University of Delhi, from March 16-17, 2023 for their research paper on Intelligent System for Face Mask Detection and Alert.

Workshops outside SPIE Student Chapter

The SPIE Student Chapter sponsors chapter members to attend and represent the chapter at various member workshops, competitions, and presentations. Here are the details of the students who have attended these events and gained significant knowledge:

S. No.	Name of the Activity	Name of the Students
1	PCB Designing Workshop	Shivam Tomar Nikhil Prajapati
2	2023 IEEE SPS Seasonal School on Quantum Computing and Machine Learning	Sakshi Garg Kalpajit Roy Prashant Verma Rajat Sharma Neha Khanra

3	Latex workshop-hands training by WeMR	Ankush Rana Mayank Rathi
4	A one-day workshop on 3D printing by IIITD	Ankush Rana Shivansh Bhatnagar
5	National Science Day (Poster Presentation) event by IAPT and North Campus, DU	Diwakar Mahato

SPIE Activities:

Orientation Programme

Date: September 07, 2022

Participants: 20

On September 07, 2022, SPIE ANDC conducted an orientation programme for a fresh batch of students. It was attended by 20 prospective members. The SPIE ANDC office bearers stepped up and elaborated on their role in the functioning of the chapter.

Arduino and Sensor Interfacing 2.0

Organizer: SPIE Student Chapter ANDC, SPIE Student Team in collaboration with Touch Techno

Date: September 10, 2022

Venue / Mode: Acharya Narendra Dev College, University of Delhi, one-day offline mode

Participants: SPIE chapter members and college students

Research Project Seminar

Date: September 22, 2022

Venue: Acharya Narendra Dev College

Participants: College students and chapter members

A seminar was conducted by SPIE ANDC Student Chapter with our faculty advisor Prof. Amit Garg as the orator. The topic of the seminar was “The Ultimate Guide to Kickstart Your Research and Project Ideas”.

Nehru Planetarium Visit

Date: September 24, 2022

Nehru Planetarium, New Delhi

No. of participants: ~26

A visit to Nehru Planetarium was organized by the SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi on September 24, 2022 in order to learn more about the universe, stars, galaxies, and telescopes.

PM's Museum Visit

Date: September 24, 2022

PM's Museum, New Delhi

No. of participants: ~30

A visit to PM's Museum was organized by the SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi on September 24, 2022 in order to learn more about the history and contributions of all the Prime Ministers of India till date.

IIT Delhi (IInvenTiv) Visit

Date: October 15, 2022

Venue: IIT-Delhi, New Delhi

Research is a creative and systematic work undertaken to increase the stock of knowledge. It also requires field analysis and understanding of the technical world along with subject knowledge. To encourage new and original research, one of the prestigious educational institutions, IIT Delhi organized a Research and Development fair, IInvenTiv-2022. IInvenTiv is India's first-of-its-kind, mega research and development fair where all 23 IITs from across the country came together at the Indian Institute of Technology, Delhi on October 15, 2022. The event aimed at creating holistic awareness on research and development. The top themes of IInvenTiv included defence, healthcare, sustainability, communication technologies (5G), manufacturing, etc. For a better understanding of new research and technologies the SPIE Student Chapter, ANDC and college students participated in IInvenTiv at IIT Delhi on October 15, 2022

SPIE Orientation Programme 2022

Date: November 23, 2022

Participants: Freshers of the college

To introduce the freshers to their college, its societies, departments, laboratories and faculty members, a student orientation session was organised by the college. In this session, a slot for her chapter was reserved. A video of our chapter was made by some chapter members who gave a brief introduction of SPIE and our chapter and also elaborated on the benefits of joining SPIE as a student member.

SPIE President Visit to India 2022

Date: November 29, 2022

Participants: SPIE Student Chapters in Delhi

It was a pleasure interacting with Prof. Anita Mahadevan-Jansen, SPIE President, at IIT, Delhi. Some of the concerns, future strategies and good practices were shared with her.

The discussions with her, Faculty Advisors and student office bearers of the three chapters will facilitate better networking in the future.

Ongoing Research Projects:

1. Reducing the surface temperature of photovoltaic panels
2. Calculating spring constant

SPIE Orientation Programme, 2022

Date: December 16, 2022

Venue: Seminar Hall, ANDC

Participants: Freshers of the college (109 students approx.)

The SPIE student Chapter at Acharya Narendra Dev College hosted a dynamic orientation session for the new students on December 16, 2022. The event commenced with introducing the dedicated team of office bearers, who provided an insightful overview of the chapter, its origins, and its headquarters. This informative session served to familiarise attendees with the chapter's mission and values.

Coffee Session

Date: January 16, 2023

Participants: 59 Chapter members, Faculty Advisor, Prince Sharma (SPIE Alumni)

The SPIE Coffee Session commenced with an engaging speech delivered by Prof. Amit Garg, which proved to be both enlightening and inspiring. The highlight of the event was the presence of esteemed alumnus, Prince Sharma, whose visit was a source of great excitement. Mr Sharma graciously shared the details of his personal journey, offering a wealth of advice and inspiration to all those in attendance.

Workshop on Arduino Sensor Interfacing

Date: January 20, 2023

Participants: 46 students from ANDC

The Arduino Sensor Interfacing Workshop, hosted by the SPIE Student Chapter at Acharya Narendra Dev College, was a day of exploration, hands-on learning, and enthusiasm for the Department of Electronics. The workshop aimed to introduce students to Arduino programming and sensor interfacing, providing them with practical skills and a deeper understanding of this versatile platform.

Recording and Reconstruction of Holograms

Date: February 04-06, 2023

Resource Person: Dr Sanjay Kumar

Participants: 67 Students from ANDC

Holography is an interdisciplinary field that combines optics, Physics, and technology to create three-dimensional images known as holograms. Understanding the principles and techniques behind holography can be both intellectually stimulating and artistically rewarding. The SPIE Student Chapter recognized the educational value of holography and organized a two-day workshop on February 04-06, 2023 in the SPIE Lab at Acharya Narendra Dev College. Dr Sanjay Kumar to share his knowledge with the students and enthusiasts.

Excursion to the National Science Centre

Date: February 11, 2023

Venue: National Science Centre, Delhi

Participants: 41 Participants

On February 11, 2023, the SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi, organized a visit to the National Science Centre to learn more about science and technology.

Quiz Mania to Celebrate National Science Day

Date: February 28, 2023

Participants: 30 chapter members and college students

The National Science quiz, hosted by the SPIE Student Chapter at Acharya Narendra Dev College, was a day of exploration, hands-on learning, and enthusiasm for learning. The quiz aimed to introduce students to education and Science. This quiz was coordinated by Ayush and Prachi Dubey. The quiz was conducted in the online mode in quizzes software in the conference hall. Mr Shivansh Bhatnagar and Mr Dev Panchal recived the first and second prize respectively.

Excursion to BIS (Bureau of Indian Standards)

Date/Location: March 24, 2023/ Bureau of Indian Standards, Ghaziabad

Participants: Chapter members

Date: March 24, 2023

Organiser: SPIE student chapter, ANDC in collaboration with BIS

A visit to the Bureau of Indian Standards was organized by the SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi, on March 24, 2023. During this visit, the student got opportunity to witness how BIS plays a crucial role in ensuring the quality and safety of products we use in our daily lives. They gained valuable insights into the significance of standards and observed various testing procedures that left them thoroughly impressed.

A Researcher's Way of Thinking: Webinar

Date/Location: September 12, 2022, Online - Google Meet

No. of participants: 30

Speaker: Mr Prahlad Prajapat

The SPIE society, known for its research development, conducts many webinars, workshops, meetings, and excursions. One such online meeting was conducted by Prahlad Prajapat, ex-Secretary of the SPIE ANDC office bearers' team and now a Ph.D. researcher in Energy Science at IIT Bombay. In this meeting, Prajapat spoke about the unique way of thinking of reseachers.

Organizing team for all the above events:

Prof.Amit Garg + SPIE Executive Team + Mr Ankush Rana + Ms Sakshi Garg + Mr Kalpajit Roy + MrIftekar Ali + Divyanshu Rajput + NamanSirohi

3.8 MoU with PhiXgen Pvt. Ltd.

MoU between ANDC and PhiXgen Pvt. Ltd., a company that was established on January 30, 2018. PhiXgen Pvt. Ltd and ANDC will work together to explore activities of mutual interest that endeavor to advance research and improve bioinformatic skills and their responsible application worldwide. The major focus of the firm is to work towards innovation, development, deployment, and commercialization of products and services. The work mandate includes providing technical services to beginners who are facing difficulties in their projects. This primarily includes support for Next Generation Sequencing projects for Genomics, Transcriptomics and Proteomics studies. The purpose of the firm is to serve various national and international government and private sector agencies like industries/universities/colleges/ autonomous bodies/departments etc. The wide scope of the firm also includes onsite/offsite/online training courses for graduates/post-graduates and corporate professionals. This Year College has organized one International Conference (INSCR 2022) and three outreach programs, MICROSPHERE 2.0, BaSIC V, and BIOSCOPE II in collaboration with PhiXgen Pvt, Ltd.

4. *Student's Corner*



4. STUDENTS' CORNER

4.1 Students' Achievements, Scholarships, and Aid

4.1.1 Merit Positions in the University of Delhi (2021-2022) (Non-Cumulative)

S. No.	Name	Course	Year	Rank in Univ.	CGPA
1	Shivam	B.Sc. (H) Biomedical Science	II	I	9.645
2	Roja Sharma	B.Sc. (H) Botany	I	III	9.41
3	Vridhi Singh	B.Sc. (H) Botany	II	II	9.82
4	Mohini Sharma	B.Sc. (H) Chemistry	III	II	9.88
5	Rishi Sarbobhoum	B.Sc. (H) Computer Science	III	I	10.00
6	Sumit	B.Sc. (H) Electronics	III	II	9.25
7	Sagar Bisht	B.Sc. (H) Electronics	III	III	9.13
8	Anshuman Panigrahi	B.Sc. (Prog.) Physical Science	I	I	9.82

4.1.1.1 Merit Positions in the University of Delhi (2019-2022) (Cumulative)

S. No.	Name	Course	Year	Rank in DU	GCGPA
1	Sagar Bisht	B.Sc. (H) Electronics	2019-22	II	9.405

4.1.2 Merit Positions in the University of Delhi South Campus (UDSC) (2021-2022) (Non-Cumulative)

S. No.	Name	Course	Year	Rank in UDSC	CGPA
1	Anchal Singh	B.Com. (H)	III	II	9.63
2	Shivam	B.Sc. (H) Biomedical Science	II	I	9.645
3	Roja Sharma	B.Sc. (H) Botany	I	I	9.41
4	Vridhi Singh	B.Sc. (H) Botany	II	I	9.82
5	Mohini Sharma	B.Sc. (H) Chemistry	III	I	9.88
6	Sneha Khurana	B.Sc. (H) Chemistry	III	III	9.63
7	Sarvagya Rastogi	B.Sc. (H) Computer Science	I	III	9.55
8	Rishi Sarbobhoum	B.Sc. (H) Computer Science	III	I	10.00
9	Sumit	B.Sc. (H) Electronics	III	II	9.25
10	Sagar Bisht	B.Sc. (H) Electronics	III	III	9.13

11	Anshuman Panigrahi	B.Sc. (Prog.) Physical Science	I	I	9.82
12	Riya Chaudhary	B.Sc. (Prog.) Physical Science	III	III	9.64
13	Komal Goyal	B.Sc. (H) Zoology	III	III	9.5
14	Radhika Garg	B.Sc. (H) Zoology	III	III	9.5

4.1.2.1 Merit Positions in the University of Delhi South Campus (UDSC) (2019-2022) (Cumulative)

S. No.	Name	Course	Year	Rank in UDSC	G_CGPA
1	Mohini Kumari	B.Sc. (H) Botany	2019-22	III	9.595
2	Rishi Sarbobhoum	B.Sc. (H) Computer Science	2019-22	III	9.797
3	Sagar Bisht	B.Sc. (H) Electronics	2019-22	II	9.405
4	Radhika Garg	B.Sc. (H) Zoology	2019-22	III	9.608

4.1.3 Merit Positions in the College (2021-2022)

4.1.3.1 Merit Positions in the College (Non-Cumulative)

S. No.	Name	Course	Year	Rank in College	CGPA
1	Mridul Garg	B.Com. (H)	I	I	8.86
2	Saksham Jain	B.Com. (H)	I	II	8.23
3	Hardik Kumar	B.Com. (H)	I	III	8.09
4	Richa Sharma	B.Com. (H)	I	III	8.09
5	Sonam Soni	B.Sc. (H) Biomedical Science	I	I	8.77
6	Supropbh Ahnaborah	B.Sc. (H) Biomedical Science	I	II	8.64
7	Ruchika	B.Sc. (H) Biomedical Science	I	II	8.64
8	Saarthak	B.Sc. (H) Biomedical Science	I	III	8.59
9	Roja Sharma	B.Sc. (H) Botany	I	I	9.41
10	Anushka Tiwari	B.Sc. (H) Botany	I	II	9.32
11	Haemakshi Biswas	B.Sc. (H) Botany	I	III	8.59
12	Dipankar Dev Rishi	B.Sc. (H) Chemistry	I	I	9.00
13	Anuj Thakur	B.Sc. (H) Chemistry	I	II	8.64
14	Amal Joshy	B.Sc. (H) Chemistry	I	III	8.09

15	Mahrnun Nisha	B.Sc. (H) Chemistry	I	III	8.09
16	Sarvagya Rastogi	B.Sc. (H) Computer Science	I	I	9.55
17	Riyansh Sharma	B.Sc. (H) Computer Science	I	II	9.5
18	Shubh Sankhyadhar	B.Sc. (H) Computer Science	I	III	9.18
19	Vishal Gupta	B.Sc. (H) Electronics	I	I	8.45
20	Shreyansh Pandey	B.Sc. (H) Electronics	I	II	8.41
21	Anshu Kumari	B.Sc. (H) Electronics	I	III	8.36
22	Nikhil Joshi	B.Sc. (H) Mathematics	I	I	9.27
23	Diksha	B.Sc. (H) Mathematics	I	II	9.05
24	Yuvraj Saroha	B.Sc. (H) Mathematics	I	III	8.95
25	Nikhil	B.Sc. (H) Physics	I	I	8.64
26	Dolly Bansal	B.Sc. (H) Physics	I	II	8.5
27	Shivam Shukla	B.Sc. (H) Physics	I	II	8.5
28	Nisha Khanra	B.Sc. (H) Physics	I	III	8.36
29	Anshika Sharma	B.Sc. (H) Zoology	I	I	9.23
30	Harshita Kushwaha	B.Sc. (H) Zoology	I	II	9.09
31	Khushboo	B.Sc. (H) Zoology	I	III	8.77
32	Shailvi Swapnil	B.Sc. (H) Zoology	I	III	8.77
33	Abhay Gupta	B.Sc. (H) Zoology	I	III	8.77
34	Priya Yadav	B.Sc. Life Science	I	I	8.73
35	Dixit Sinha	B.Sc. Life Science	I	II	8.59
36	M Vathshala	B.Sc. Life Science	I	III	8.45
37	Anshuman Panigrahi	B.Sc. (Prog.) Physical Science	I	I	9.82
38	Chetna Panchal	B.Sc. (Prog.) Physical Science	I	II	9.14
39	Akshita Kapri	B.Sc. (Prog.) Physical Science	I	II	9.14
40	Sachin Jha	B.Sc. (Prog.) Physical Science	I	II	9.14
41	Omkar Nath Maurya	B.Sc. (Prog.) Physical Science	I	III	9.00
42	Aayushi Chachra	B.Com. (H)	II	I	9.18
43	Akarsh Panwar	B.Com. (H)	II	II	8.71

44	Arjun Singhal	B.Com. (H)	II	III	8.68
45	Harsh Soni	B.Com. (H)	II	III	8.68
46	Khushboo Sharma	B.Com. (H)	II	III	8.68
47	Vanshika Goel	B.Com. (H)	II	III	8.68
48	Shivam	B.Sc. (H) Biomedical Science	II	I	9.645
49	Srishti Singh	B.Sc. (H) Biomedical Science	II	II	9.18
50	Anamika Binu	B.Sc. (H) Biomedical Science	II	III	8.98
51	Vridhi Singh	B.Sc. (H) Botany	II	I	9.82
52	Maniket Chauhan	B.Sc. (H) Botany	II	II	9.07
53	Aishwary Kumar Chaturvedi	B.Sc. (H) Botany	II	III	8.96
54	Riya Dayal	B.Sc. (H) Botany	II	III	8.96
55	Meghana Bisht	B.Sc. (H) Chemistry	II	I	9.46
56	Bhanu Miglani	B.Sc. (H) Chemistry	II	II	9.07
57	Tanya Chopra	B.Sc. (H) Chemistry	II	III	8.96
58	Anam Khan	B.Sc. (H) Computer Science	II	I	9.46
59	Ananya Shukla	B.Sc. (H) Computer Science	II	I	9.46
60	Yash Lohia	B.Sc. (H) Computer Science	II	II	9.39
61	Aditya Amlesh Jha	B.Sc. (H) Computer Science	II	II	9.39
62	Harsh Bamotra	B.Sc. (H) Computer Science	II	III	9.36
63	Swati Shukla	B.Sc. (H) Electronics	II	I	8.82
64	Ankush Rana	B.Sc. (H) Electronics	II	II	8.75
65	Shivansh Bhatnagar	B.Sc. (H) Electronics	II	III	8.5
66	Akanksha Rawal	B.Sc. (H) Electronics	II	III	8.5
67	Pratham Gupta	B.Sc. (H) Mathematics	II	I	9.39
68	Shruti Arya	B.Sc. (H) Mathematics	II	II	9.36
69	Anchal Kandari	B.Sc. (H) Mathematics	II	III	9.18
70	Bhavya	B.Sc. (H) Physics	II	I	9.39
71	Kalpajit Roy	B.Sc. (H) Physics	II	II	8.86
72	Ayush Mishra	B.Sc. (H) Physics	II	III	8.75
73	Vaibhav Thapliyal	B.Sc. (H) Physics	II	III	8.75
74	Rajkumar Jain	B.Sc. (H) Zoology	II	I	9.47
75	Mahip Singh	B.Sc. (H) Zoology	II	II	9.26

76	Neha Rana	B.Sc. (H) Zoology	II	III	9.11
77	Arunima Dey	B.Sc. (Prog.) Life Science	II	I	9.25
78	Somya Pandey	B.Sc. (Prog.) Life Science	II	II	9.00
79	Harshika Dewangan	B.Sc. (Prog.) Life Science	II	III	8.885
80	Tarun Bidhuri	B.Sc. (Prog.) Physical Science	II	I	8.86
81	Shreya Rawat	B.Sc. (Prog.) Physical Science	II	II	8.82
82	Rohit	B.Sc. (Prog.) Physical Science	II	III	8.55
83	Aanchal Singh	B.Com. (H)	III	I	9.63
84	Vaishali Bharadwaj	B.Com. (H)	III	II	9.25
85	Amisha Ambardar	B.Com. (H)	III	III	9.13
86	Ritika Rawat	B.Com. (H)	III	III	9.13
87	Tarush Bajra	B.Com. (H)	III	III	9.13
88	Utsav Gungnani	B.Com. (H)	III	III	9.13
89	Ankita Paty	B.Sc. (H) Biomedical Science	III	I	9.13
90	Prachi Arora	B.Sc. (H) Biomedical Science	III	II	9.0
91	Priyanjana Ghosh	B.Sc. (H) Biomedical Science	III	III	8.88
92	Tejaswini C	B.Sc. (H) Biomedical Science	III	III	8.88
93	Hitesh Kala	B.Sc. (H) Botany	III	I	9.38
94	Jatin	B.Sc. (H) Botany	III	I	9.38
95	Mohini Kumari	B.Sc. (H) Botany	III	I	9.38
96	Pragya Muni	B.Sc. (H) Botany	III	II	9.13
97	Pratiksha	B.Sc. (H) Botany	III	III	9.00
98	Preeti Maurya	B.Sc. (H) Botany	III	III	9.00
99	Mohini Sharma	B.Sc. (H) Chemistry	III	I	9.88
100	Sneha Khurana	B.Sc. (H) Chemistry	III	II	9.63
101	Shiwani Kashyap	B.Sc. (H) Chemistry	III	III	9.5
102	Rishi Sarbobhoum	B.Sc. (H) Computer Science	III	I	10.00
103	Ayushi Sharma	B.Sc. (H) Computer Science	III	II	9.63
104	Suruchi Verma	B.Sc. (H) Computer Science	III	II	9.63
105	Priya Singh	B.Sc. (H) Computer Science	III	III	9.38

106	Sambit Basu	B.Sc. (H) Computer Science	III	III	9.38
107	Sumit	B.Sc. (H) Electronics	III	I	9.25
108	Sagar Bisht	B.Sc. (H) Electronics	III	II	9.13
109	Mohd Mukhtar Ansari	B.Sc. (H) Electronics	III	III	9.00
110	Priya	B.Sc. (H) Mathematics	III	I	9.75
111	Rishabh Kumar Gupta	B.Sc. (H) Mathematics	III	II	9.63
112	Meenakshi	B.Sc. (H) Mathematics	III	III	9.5
113	Dheeraj Kumar	B.Sc. (H) Physics	III	I	9.38
114	Somsuvra Das	B.Sc. (H) Physics	III	II	9.25
115	Bindu	B.Sc. (H) Physics	III	II	9.25
116	Yashika Saraswat	B.Sc. (H) Physics	III	III	9.00
117	Manoj Verma	B.Sc. (H) Physics	III	III	9.00
118	Radhika Garg	B.Sc. (H) Zoology	III	I	9.5
119	Komal Goyal	B.Sc. (H) Zoology	III	I	9.5
120	Shalini	B.Sc. (H) Zoology	III	II	9.25
121	Trisha Nair	B.Sc. (H) Zoology	III	II	9.25
122	Harshita	B.Sc. (H) Zoology	III	III	9.13
123	Khushi Goyal	B.Sc. (H) Zoology	III	III	9.13
124	Sumitra Shah	B.Sc. (Prog.) Life Science	III	I	9.1
125	Muskan	B.Sc. (Prog.) Life Science	III	II	8.95
126	Inshul Bansal	B.Sc. (Prog.) Life Science	III	III	8.86
127	Riya Chaudhary	B.Sc. (Prog.) Physical Science	III	I	9.64
128	Neerddhi Goswami	B.Sc. (Prog.) Physical Science	III	II	9.41
129	Anand Kumar Jha	B.Sc. (Prog.) Physical Science	III	III	9.09

4.1.3.2 Merit Positions in the College (Cumulative) (2019-2022)

S. No.	Name	Course	Year	Rank in College	G_ CGPA
1	Anchal Singh	B.Com. (H)	2019-22	I	9.27
2	Tarush Bajra	B.Com. (H)	2019-22	II	9.176

3	Teesha Rautela	B.Com. (H)	2019-22	III	9.095
4	Tejaswini C	B.Sc. (H) Biomedical Science	2019-22	I	9.027
5	Ankita Paty	B.Sc. (H) Biomedical Science	2019-22	II	8.973
6	Prachi Arora	B.Sc. (H) Biomedical Science	2019-22	III	8.946
7	Mohini Kumari	B.Sc. (H) Botany	2019-22	I	9.595
8	Hitesh Kala	B.Sc. (H) Botany	2019-22	II	9.338
9	Pragya Muni	B.Sc. (H) Botany	2019-22	III	9.135
10	Shiwani Kashyap	B.Sc. (H) Chemistry	2019-22	I	9.581
11	Saloni Kashyap	B.Sc. (H) Chemistry	2019-22	I	9.581
12	Sneha Khurana	B.Sc. (H) Chemistry	2019-22	II	9.473
13	Mohini Sharma	B.Sc. (H) Chemistry	2019-22	III	9.324
14	Rishi Sarbobhoum	B.Sc. (H) Computer Science	2019-22	I	9.797
15	Anushka Jain	B.Sc. (H) Computer Science	2019-22	II	9.527
16	Priya Singh	B.Sc. (H) Computer Science	2019-22	III	9.405
17	Sagar Bisht	B.Sc. (H) Electronics	2019-22	I	9.405
18	Mohd Mukhtar Ansari	B.Sc. (H) Electronics	2019-22	II	9.23
19	Sumit	B.Sc. (H) Electronics	2019-22	III	9.068
20	Priya	B.Sc. (H) Mathematic	2019-22	I	9.608
21	Sachin Patel	B.Sc. (H) Mathematic	2019-22	II	9.365
22	Meenakshi	B.Sc. (H) Mathematics	2019-22	III	9.257
23	Somsuvra Das	B.Sc. (H) Physics	2019-22	I	9.66
24	Bindu	B.Sc. (H) Physics	2019-22	II	9.51
25	Dheeraj Kumar	B.Sc. (H) Physics	2019-22	III	9.1
26	Kunal Kumar	B.Sc. (H) Physics	2019-22	III	9.1

27	Radhika Garg	B.Sc. (H) Zoology	2019-22	I	9.608
28	Khushi Goyal	B.Sc. (H) Zoology	2019-22	II	9.5
29	Komal Goyal	B.Sc. (H) Zoology	2019-22	III	9.432
30	Riya Chaudhary	B.Sc. (Prog.) Physical Science	2019-22	I	9.39
31	Neerddhi Goswami	B.Sc. (Prog.) Physical Science	2019-22	II	9.28
32	Anand Kumar Jha	B.Sc. (Prog.) Physical Science	2019-22	III	9.06
33	Sumitra Shah	B.Sc. (Prog.) Life Science	2019-22	I	9.106
34	Muskan	B.Sc. (Prog.) Life Science	2019-22	II	8.909
35	Inshul Bansal	B.Sc. (Prog.) Life Science	2019-22	III	8.894

4.1.4 Scholarships and Awards

4.1.4.1 Best Student Silver Jubilee Award

An award of Rs. 10,000/- (Rupees Ten Thousand only) was instituted in 2016, to commemorate the Silver Jubilee year of the College, given to the Best All Round Student of the year. This prize is awarded to a final year student who is meritorious, actively participates in various committees of the college, contributes towards research, and wins prizes/ awards for the College. **Ms Vridhi Singh, B.Sc. (H) Botany, III Year** is selected for the Best Student Silver Jubilee Award for the academic session 2022-23.

4.1.4.2 Abhinav Halen Scholarship

It is a matter of great pride for the College that Mr Abhinav Halen, a student of the first batch of B.Sc. (H) Electronics at Acharya Narendra Dev College has instituted two annual Abhinav Halen Scholarships of Rs. 15,000/- (Rupees Fifteen Thousand only) each, for needy students of the Department of Electronics (academic session 2016-17 onwards). This year the scholarship is awarded to:

S. No.	Name of the Student	Course, Year
1	Vishal Gupta	B.Sc. (H) Electronics, III Year
2	Kaushal Kumar	B.Sc. (H) Electronics, I Year

4.1.4.3 Smt Krishna Toteja Memorial Scholarship

Prof. Ravi Toteja, faculty member in Department of Zoology and officiating Principal of the college, has instituted this scholarship (academic session 2016-17 onwards) in the memory of his mother. One scholarship of Rs. 6,000/- (Rupees Six Thousand only) per year is awarded to a meritorious and needy girl student of B.Sc. (H) Zoology. This year the scholarship is awarded to **Ms Shalini, B.Sc. (H) Zoology, I Year**.

4.1.4.4 Smt Urmil Gupta Scholarship

Prof. Seema Gupta, Department of Chemistry of the college has donated Rs. 1,00,000/- for the institution of a scholarship of Rs. 6,000/- (Rupees Six Thousand only) in her Mother-in-law's name. The Fund called 'Urmil Gupta Memorial Scholarship' has been created for this. The scholarship is to be awarded from the accrued annual interest. Students of B.Sc. (H) Chemistry with a low family income are eligible for the reward of this scholarship. This year the scholarship is awarded to **Mr Ritesh, B.Sc. (H) Chemistry, I Year.**

4.1.4.5 Smt Asha Walia Memorial Scholarship

Prof. Seema Gupta, Department of Chemistry of the college has donated Rs. 1,00,000/- for the institution of a scholarship of Rs. 6,000/- (Rupees Six Thousand only) in her Mother's name. The Fund called 'Asha Walia Memorial Scholarship' has been created for this. The scholarship is to be awarded from the accrued annual interest. Students of B.Sc. Life Science with a low family income are eligible for the reward of this scholarship. This year the scholarship is awarded to **Mr Ashish Raushan, B.Sc. (Prog.) Life Science, I Year.**

4.1.4.6 Smt Snehlata Gupta Fellowship

Dr Manisha Jain, Associate Professor, Department of Chemistry of the college has donated Rs. 1,90,000/- for the institution of a scholarship of Rs. 5,000/- (Rupees Five Thousand only). The Fund called 'Smt Snehlata Gupta Fellowship' has been created for this. The scholarship is to be awarded from the accrued annual interest. Need based student of B.Sc. (H) Chemistry with a low family income is eligible for the reward of this scholarship. This year the scholarship is awarded to **Mr Amal Joshi, B.Sc. (H) Chemistry, II Year.**

4.1.4.7 Sh Ram Swaroop Gupta Fellowship

Dr Manisha Jain, Associate Professor, Department of Chemistry of the college has donated Rs. 1,90,000/- for the institution of a scholarship of Rs. 5,000/- (Rupees Five Thousand only). The Fund called 'Sh Ram Swaroop Gupta Fellowship' has been created for this. The scholarship is to be awarded from the accrued annual interest. Merit based students of B.Sc. (H) Chemistry, VI Semester with active involvement in the college activities are eligible for the reward of this scholarship. This year the scholarship is awarded to **Ms Taruna Sharma, B.Sc. (H) Chemistry, III Year.**

4.1.4.8 D. C. Arora Scholarship

This scholarship is awarded in two categories, needy and meritorious. Each of these categories comprises two scholarships of Rs. 10,000/- (Rupees Ten Thousand only). The proud recipients are:

Meritorious Category

S. No.	Name of the Student	Course, Year
1	Shivansh Bhatnagar	B.Sc. (H) Electronics, III Year
2	Harsh Bamotra	B.Sc. (H) Computer Science, III Year

Needy Category

S. No.	Name of the Student	Course, Year
1	Sachin Jha	B.Sc. (Prog.) Physical Science with Computer Science, II Year

2	Rohit Kumar Barnwal	B.Sc. (H) Chemistry, I Year
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4.1.4.9 Dr Saumya Saxena Memorial Scholarship

Dr Saumya Saxena, our beloved colleague from Botany department passed away on March 23, 2017. In her memory, her husband Dr Harsh Kumar has instituted a fund which is being used to award a scholarship of Rs. 10,000/- (Rupees Ten Thousand only) to a meritorious and needy girl from B.Sc. (H) Botany. The proud recipient of this award is **Ms Vridhi Singh, B.Sc. (H) Botany, III Year.**

4.1.4.10 श्रद्धांजलि: Dr Saumya Saxena Students Endowment Scholarship

The Alumni of B.Sc. (H) Botany has created a scholarship fund in honour of their beloved teacher Dr Saumya Saxena. This endowment scholarship has been created through voluntary contributions made by students whom Dr Saumya Saxena had taught during her career. The fund is called the Dr Saumya Saxena Students Endowment fund with the name of the scholarship as श्रद्धांजलि: Dr Saumya Saxena Students Endowment Scholarship. The interest earned is being used for awarding two scholarships worth Rs. 6,000/- (Rupees Six Thousand only) every year for students of B.Sc. (H) Botany. The scholarships are awarded on need-cum-merit basis: one to the second year student (based on need and the first year performance) and one to the third year student (based on need and the second year performance). This year only one student was selected for the award. The proud recipient of the scholarship is **Ms Kanchan, B.Sc. (H) Botany, III Year.**

4.1.4.11 Ms Teena Gupta Memorial Scholarship

This scholarship was instituted in the year 2006-07 in the memory of Ms Teena Gupta, an alumna of the Department of Electronics from the college and Ex-faculty in the Department of Computer Science who passed away at an early age. There are six such scholarships worth Rs. 6,000/- (Rupees Six Thousand only) each and are awarded to needy cum deserving students of B.Sc. (H) Electronics and B.Sc. (Prog.) Physical Science with Computer Science. The awardees of the scholarship are:

S. No.	Name of the Student	Course, Year
1	Siddharth Kumar	B.Sc. (H) Electronics, I Year
2	Chandan Kumar	B.Sc. (H) Electronics, II Year
3	Prashant Kumar	B.Sc. (H) Electronics, II Year
4	Shivam Prajapati	B.Sc. (Prog.) Physical Science with Computer Science, I Year
5	Ankit Sharma	B.Sc. (Prog.) Physical Science with Computer Science, II Year
6	Omkar Nath Maurya	B.Sc. (Prog.) Physical Science with Computer Science, II Year

4.1.4.12 Sh Sultan Chand Endowment Scholarship

This scholarship is awarded to a student of B.Com. (H), III Year who secures the highest percentage of marks in the college in B.Com. (H), II Year University examination. The amount of scholarship is Rs. 3,500/- (Rupees Three Thousand Five Hundred only). This year the fellowship is awarded to **Ms Aayushi Chachra, B.Com. (H), III Year.**

4.1.4.13 Dr (Ms) Usha Aggarwal “Tejaswini” Scholarship

This scholarship is awarded to a student of B.Com. (H), II Year who secures highest percentage of marks in the college in B.Com. (H), II Semester university examination. Amount of scholarship is Rs 3500/- (Rupees Three Thousand Five Hundred only). This year the fellowship is awarded to **Mr Mridul Garg, B.Com. (H), II Year.**

4.1.4.14 Smt Santosh Bansal Memorial Scholarship

Ms Anupama Rastogi, Associate Professor, Department of Mathematics of the college has donated Rs. 1,00,000 for the institution of a scholarship of Rs. 5,000 in her mother's name. The Fund called 'Smt Santosh Bansal Memorial Scholarship' was instituted in the year 2022-23. The scholarship is to be awarded from the accrued annual interest. This scholarship is awarded to the student of B.Sc. (H) Mathematics, III Year with the highest cumulative score in first and second year in the university examination. The proud recipient of this award is **Ms Shruti Arya, B.Sc. (H) Mathematics, III Year.**

4.1.4.15 Pushpa Paul Memorial Scholarship

The fellowship is for meritorious and needy girl students who display natural curiosity, motivation, creativity, innovation, and have the spark to excel in their field of interest. Under this fellowship, Rs 15,000/- is given to two students. Only one scholarship was awarded this year. The proud recipient of this award is **Ms Vridhi Singh, B.Sc. (H) Botany, III Year.**

4.1.4.16 Dr. Savithri Singh Award for Best UG Researcher

This fellowship was instituted by our Ex-Principal Dr Savithri Singh after her retirement for best student researcher with the sole purpose of encouraging research among UG students. The award is Rs 10,000/- per annum plus a contingency research grant of Rs 2,000/- per annum. All ANDC students are eligible for this award. This year, the fellowship is awarded to the following students:

S. No.	Name of the Student	Course, Year
1	Ankush Rana	B.Sc. (H) Electronic Science, III Year
2	Kalpajit Roy	B.Sc. (H) Physics, III Year
3	Harsh Bamotra	B.Sc. (H) Computer Science, III Year

4.1.4.17 Saksham Puru Foundation Research Fellowship

Mrs Lalita Agarwal, (ex-Treasurer, Governing Body ANDC) has donated Rs. 2,00,000/- for the institution of two scholarships of Rs. 5,000/- each in her son's name. The Fund called 'SPF Research Fellowship Fund' was instituted in the year 2022-23. The scholarship is to be awarded from the accrued annual interest. This scholarship is awarded to any student of B.Sc. (H)/B.Sc. (Prog.)/B.Com. (H), III Year who has a minimum merit score of 8 CGPA and above and has an aptitude for research. This year, the fellowship is awarded to the following students:

S. No.	Name of the Student	Course, Year
1	Jay Kumar Sirmoria	B.Sc. (H) Botany, III year
2	Sruthi S. Kumar	B.Sc. (H) Botany, III year
3	Mohd Afham	B.Sc. (H) Botany, III year
4	Sakshi Garg	B.Sc. (Prog.) Physical Science with Computer Science, III year

4.1.4.18 Fellowships Received by ANDC Students from External Sources

4.1.4.18.1 Meritorious Students' Award from Government of Delhi

The Directorate of Higher Education, Government of NCT of Delhi rewards the toppers from Delhi Government funded colleges of University of Delhi. The amount of this fellowship is Rs. 10,000/- (Rupees Ten Thousand only) and all ANDC students are eligible for this. This Year, the fellowship is awarded to the following students:

S. No.	Name of the Student	Course, Year	Amount (Rs.)
1	Anchal Singh	B.Com. (H), III Year	10,000/-
2	Anshuman Panigrahi	B.Sc. (Prog.) Physical Science, I Year	10,000/-
3	Rishi Sarbobhoum	B.Sc. (H) Computer Science, III Year	10,000/-

4.1.4.18.2 Meritorious Students' Award from University of Delhi

Faculty of Science, University of Delhi rewards the meritorious students who are pursuing science courses from colleges of University of Delhi. The amount of this award given is Rs. 3,000/- (Rupees Three Thousand only) which is to be used by the student for the purchase of books. This year, the award is given to the following seven students:

S. No.	Name of the Student	Course, Year
1	Prince C P	B.Sc. (H) Physics, I Year
2	Amal Joshi	B.Sc. (H) Chemistry, I Year
3	Somsuvra Das	B.Sc. (H) Physics, III Year
4	Bindu	B.Sc. (H) Physics, III Year
5	Mohini Kumari	B.Sc. (H) Botany, III Year
6	Radhika Garg	B.Sc. (H) Zoology, III Year
7	Khushi Goyal	B.Sc. (H) Zoology, III Year

4.1.4.18.3 Hindustan Petroleum Corporation Limited Scholarship

Hindustan Petroleum Corporation Limited is Maharatna Company under MoPNG, Govt. of India. HPCL has always believed in creating shared values and delivering happiness through its various initiatives that have touched millions of lives. In the continued endeavor, HPCL wishes to distribute scholarships to SC/ST/OBC and PWD students studying in graduation and post-graduation courses.

The current scholarship scheme of HPCL for Students in the category of Scheduled Caste, Scheduled Tribes, Other Backward Classes and Persons with Disabilities gives support for their education. To encourage the students for continued improvements in their academic studies, the scholarship is granted as per following slab:

Scholarship Scheme

Category	Marks	Amount
SC/ST/OBC	45% to 50%	₹ 4800
SC/ST/OBC	Above 50% and upto 65%	₹ 5300
SC/ST/OBC	Above 65% and upto 85%	₹ 5900
SC/ST/OBC	Above 85%	₹ 6500
PWD Students	-	₹ 6500

This year, the award is given to the following students:

S. No.	Name of Student	Course, Year
1	Abhishek	B.Sc., I Year
2	Abhishek Kumar	B.Sc., II Year
3	Aditya	B.Sc., II Year
4	Aditya Kumar	B.Sc., II Year
5	Aditya Kumar Singh	B.Sc., I Year
6	Aditya Raj Sah	B.Sc., II Year
7	Akanchha Kumari	B.Sc., II Year
8	Alka Raju	B.Sc., II Year
9	Alok Singh	B.Sc., II Year
10	Alshad S	B.Sc., II Year
11	Aman Kumar	B.Sc., I Year
12	Amarjeet Kumar	B.Sc., I Year
13	Amit Rathore	B.Sc., I Year
14	Anshu	B.Sc., I Year
15	Ashwani Kumar	B.Sc., I Year
16	Ayush Chaudhary	B.Sc., I Year
17	Bhawna Kumari	B.Sc., II Year
18	Chandan Kumar	B.Sc., I Year
19	Chandan Kumar Shah	B.Sc., II Year
20	Deepak Jaswal	B.Sc., I Year
21	Devang Kamal	B.Sc., II Year
22	Devansh Panwar	B.Sc., I Year
23	Dhananjay Kumar	B.Sc., I Year
24	Gulshan Kumar	B.Sc., II Year
25	Gyan Prakash	B.Sc., I Year
26	Himanshi Nagar	B.Sc., I Year

27	Jagdeesh Arya	B.Sc., I Year
28	Jitender	B.Sc., I Year
29	Keshav	B.Sc., I Year
30	Kirti Yadav	B.Sc., II Year
31	Krishna Agrawal	B.Sc., II Year
32	Lalit Kumar	B.Sc., II Year
33	Manish Verma	B.Sc., I Year
34	Mohd Tabish	B.Sc., II Year
35	Monu	B.Sc., II Year
36	Nishant Kumar	B.Sc., I Year
37	Pallavi Saini	B.Sc., II Year
38	Payal	B.Sc., I Year
39	Pranjal Verma	B.Sc., I Year
40	Prashant Kumar	B.Sc., I Year
41	Prayag Yadav	B.Sc., II Year
42	Rakhi	B.Sc., I Year
43	Ravi Tomer	B.Sc., I Year
44	Rishipal	B.Sc., II Year
45	Riya Verma	B.Sc., I Year
46	Rohit	B.Sc., I Year
47	Rohit Maurya	B.Sc., II Year
48	Roshan Kumar	B.Sc., II Year
49	Sarita	B.Sc., II Year
50	Sumit	B.Sc., I Year
51	Tripti	B.Sc., II Year
52	Vinod	B.Sc., I Year
53	Vipin Kumar	B.Sc., I Year
54	Vishal Gupta	B.Sc., I Year
55	Vishal Kashyap	B.Sc., II Year
56	Yadvender	B.Sc., I Year
57	Yash Kumar	B.Sc., I Year
58	Yashraj Aditya	B.Sc., II Year

4.1.4.18.4 POSE Scholarship

This scholarship is given by Haryana State Council for Science, Innovation and Technology, DST, Government of Haryana. This scholarship contains an amount Rs. 10,000/- (Rupees Ten Thousand only). This year the fellowship is awarded to **Ms Suman, B.Sc. (H) Chemistry, III Year**.

4.1.4.18.5 INSPIRE Scholarship

DST, Government of India gives INSPIRE scholarship of Rs. 60,000/- (Rupees Sixty Thousand only) to the meritorious students. This year, the scholarship is given to the following students:

S. No.	Name of the Student	Course, Year	Amount (Rs.)
1	Vaibhav Thapliyal	B.Sc. (H) Physics	60,000/-
2	Bharat Singh	B.Sc. (H) Physics	60,000/-

4.1.5 Student Aid for Knowledge, Success, Honour, and Motivation (SAKSHAM)

The college continues to offer a helping hand to needy and deserving students, in the form of financial aid through SAKSHAM. Under this scheme, Rs. 150/- is collected from students, besides monthly donations by faculty, non-teaching staff, and well-wishers. After a rigorous evaluation of their needs, selected students are supported in the following categories:

- (a) Full fee waiver (Except Security Deposit)
- (b) A stipend of Rs. 1000/- per month for ten months
- (c) Stationery + photocopying upto Rs. 3000/- for the academic year

This year, the following students were supported in any one of the above category:

(a) Full fee waiver

S. No.	Name of the Student	Course	Year
1	Monu	B.Sc. (H) Mathematics	III
2	Srishti Upadhyay	B.Sc. (H) Mathematics	I
3	Vicky Kumar	B.Com (H)	I
4	Rohit Maurya	B.Sc. (H) Electronics	III
5	Akanchha Kumara	B.Sc. (Prog.) Physical Science with Computer Science	III
6	Devender Kumar	B.Sc. (Prog.) Physical Science with Computer Science	III
7	Amit Rathore	B.Sc. (Prog.) Physical Science with Computer Science	II
8	Pranjal Verma	B.Sc. (Prog.) Physical Science with Computer Science	II
9	Ravi Tomer	B.Sc. (Prog.) Physical Science with Computer Science	II
10	Nandkishor Ahirwar	B.Sc. (H) Chemistry	III
11	Sakshi Yadav	B.Sc. (H) Chemistry	III
12	Rohit Kumar Barnwal	B.Sc. (H) Chemistry	I
13	Jagdeesh Arya	B.Sc. (Prog.) Physical Science with Chemistry	III

14	Prayag Yadav	B.Sc. (Prog.) Physical Science with Chemistry	III
15	Suraj Sengar	B.Sc. (Prog.) Physical Science with Chemistry	III
16	Vishal Kashyap	B.Sc. (Prog.) Physical Science with Chemistry	III
17	Aditya Kumar Singh	B.Sc. (H) Physics	II
18	Abhishek Kr Prajapati	B.Sc. (Prog.) Physical Science with Electronics	II
19	Rekha	B.Sc. (H) Botany	III
20	Rahul Aryan Tiwari	B.Sc. (Prog.) Physical Science with Computer Science	III

(b) A stipend of Rs. 1000/- per month for ten months

S. No.	Name of the Student	Course	Year
1	Preksha	B.Sc. (H) Biomedical Science	II
2	Aman Umar	B.Sc. (H) Biomedical Science	I
3	Himanshu Raj	B.Sc. (H) Computer Science	II
4	Manish Mehra	B.Sc. (H) Computer Science	II
5	Aditya Kumar	B.Sc. (H) Computer Science	III
6	Amit	B.Sc. (H) Computer Science	III
7	Mohammad Zeeshan Alam	B.Sc. (H) Computer Science	I
8	Akanksha Rawal	B.Sc. (H) Electronics	III
9	Akhil Bharti	B.Sc. (H) Electronics	I
10	Ranjeet Anand	B.Sc. (H) Electronics	I
11	Divya	B.Sc. (Prog.) Physical Science with Computer Science	II
12	Pooja	B.Sc. (Prog.) Physical Science with Computer Science	II
13	Akash Kumar Maurya	B.Sc. (Prog.) Physical Science with Chemistry	III
14	Rishita	B.Sc. (Prog.) Physical Science with Chemistry	II
15	Mahesh Kumar	B.Sc. (Prog.) Physical Science with Chemistry	I
16	Jangidi Ranjith	B.Sc. (H) Botany	II

(c) Stationery + photocopying upto Rs. 3000/- for the academic year

S. No.	Name of the Student	Course	Year
1	Hemant Singh	B.Sc. (H) Mathematics	III
2	Priya	B.Sc. (H) Mathematics	III
3	Bhavna	B.Sc. (H) Biomedical Science	III
4	Hirday Sehgal	B.Sc. (H) Biomedical Science	III
5	Kalyani Kumari	B.Sc. (H) Biomedical Science	III
6	Abhishek Kumar	B.Com. (H)	II
7	Divyam Singh	B.Sc. (H) Computer Science	III
8	Mohd Ayan Ansari	B.Sc. (H) Computer Science	III
9	Aman Sharma	B.Sc. (H) Computer Science	II
10	Deepak Prajapati	B.Sc. (H) Computer Science	II
11	Abhishek Kumar	B.Sc. (H) Computer Science	III
12	Aditya Raj Sah	B.Sc. (H) Computer Science	III
13	Sagar	B.Sc. (H) Computer Science	I
14	Alok Singh	B.Sc. (H) Electronics	III
15	Yogesh Patel	B.Sc. (H) Electronics	II
16	Ayush Chaudhary	B.Sc. (Prog.) Physical Science with Computer Science	II
17	Chetna Panchal	B.Sc. (Prog.) Physical Science with Computer Science	II
18	Manoj Singh Mehta	B.Sc. (Prog.) Physical Science with Chemistry	III
19	Muskan Sarawagi	B.Sc. (Prog.) Physical Science with Chemistry	III
20	Nitin Sharma	B.Sc. (Prog.) Physical Science with Chemistry	III
21	Amisha Kumari	B.Sc. (Prog.) Physical Science with Chemistry	II
22	Neha	B.Sc. (Prog.) Physical Science with Chemistry	II

4.1.6 Co-curricular Activities

ANDC students are active in all spheres of college activities including research. They participate in various conferences, workshops, inter-college curricular, and extra-curricular competitions etc. and attain positions at national and international platforms.

4.1.6.1 Awards Won by Students in Various Conferences/Competitions

Name of the student, Course	Details of the event and award won
Aakanksha Rathee, B.Sc. (H) Biomedical Science, I Year	Secured third position in an Inter-college Speech competition “Can India get corruption free?” organized by <i>Unnat Bharat Abhiyan@ANDC</i> on November 06, 2022.
Alia Siddiqui, B.Sc. (H) Biomedical Science, I Year	Secured first place in Basketball Team event (women) in FIT India Acharya Narendra Dev College Intra College Sports Tournament 2022-23.
Ritik, B.Sc. (H) Biomedical Science, I Year	Won second prize in the rangoli competition organized during ‘ <i>Rachnotsav</i> ’ on the occasion of World Hindi Day by <i>Tark</i> , the debating society of Acharya Narendra Dev College on January 09, 2023.
Saarthak Kumar, B.Sc. (H) Biomedical Science, II Year	Won third prize in the quiz competition organized on the occasion of National Science Day by National Institute of Immunology on February 28, 2023.
Sonam Soni, B.Sc. (H) Biomedical Science, II Year	Secured third position in an Inter-college Slam Poetry competition ‘ <i>ALFAAZ</i> ’ organized by <i>Unnat Bharat Abhiyan@ANDC</i> on January 14, 2023.
Afshar Ajmeri, B.Sc. (H) Botany, III Year	Won third prize in <i>Veer Gatha</i> - Poetry Competition on the occasion of Republic Day at Rajdhani College on January 26, 2023.
	Won second prize in Creative Writing Competition on the occasion of the Annual Fest of <i>Abhivyanjana</i> , Debating, Poetry and Creative, Writing Club at Motilal Nehru College on April 15, 2023.
	Won first prize in <i>Kaarvan</i> - Presentation Competition on the occasion of <i>Aadya</i> - Annual Fest of NSS, Delhi College of Arts and Commerce on April 06, 2023.
	Won third prize in <i>Pradarshan</i> - Paper Presentation on the occasion of Annual Fest <i>Samara</i> , of Botany Department Ramjas College, March 22, 2023.

Mohd Afham, B.Sc. (H) Botany, III Year	Secured first position in poster presentation in 'National conference on Bioentrepreneurship-Academia to Industry organized by Department of Microbiology, SRCASW on February 23-24, 2023.
	Secured best Oral presentation award in "Science and Entrepreneurship" ICSSR sponsored international seminar organized by Sri Aurobindo College on March 16-17, 2023.
	Won first position in Anthesis-The Botanical quiz competition in Botanical festival of Hindu College on April 05, 2023.
	Won first position in Inter college Botanical quiz organized by Botanical Society of Hansraj College on April 18, 2023.
Vridhi Singh, B.Sc. (H) Botany, II Year	Secured third position in the quiz competition organized by the National Institute of Immunology organized on the occasion of National Science Day on February 28, 2023.
	Secured third position in the quiz competition organized by the National Service Scheme Unit of Ram Lal Anand College in its Annual Fest: SANKALP'23 March, 2023.
	Secured first position in Botanophily- The Paper Presentation Competition conducted as part of INFLORESENCE, The Botanical Fest of Hindu College on April 05, 2023.
	Secured first position in the poster presentation competition held during National Conference on Bioentrepreneurship- Academia To Industry" organized by the Department of Microbiology, Shaheed Rajguru College of Applied Science For Women on February 23- 24, 2023.
	Best Oral Presentation I the track entitled Science and Entrepreneurship in the ICSSR sponsored International Seminar and 'Technology for Environmental Sustainability, Socio- Economic Responsibility and Associated Entrepreneurial Opportunities in Society and Rural Environment', organized by Sri Aurobindo College, University of Delhi on March 16-17, 2023.
Abhishek Kumar, B.Sc. (H) Chemistry, II Year	Secured second place in 400 m men race in Fit India ANDC Sports Tournament 2022-2023.
Aayushi Gupta, B.Com. (H), III Year	Secured first position in Craft Junkies organized by Shaheed Sukhdev College of Business Studies in session 2022-23.

Pooja Behera, B.Com. (H), III Year	Secured a certificate of Appreciation by GKCM ORC in International Odissi Dance Festival held at Rabindra Mandap, Bhubaneswar from December 26-30, 2022.
Amitesh, Nilesh Pandey, B.Sc. (H) Computer Science, III Year	Secured second position in Trading Titans during “BLITZKRIEG- 2023 The Annual Technical Fest”, organized by BLITZ, the Computer Science Society under the Department of Computer Science of Keshav Mahavidyalaya on March 24, 2023.
Ananya Shukla, B.Sc. (H) Computer Science, III Year	Secured first position in the event Bug-Byte League organized by Jagannath International Management School on April 28, 2023.
Parivesh Dhakar, B.Sc. (H) Electronics, III Year	Secured GOLD Medal in Fencing in Wako Indian Open International Kickboxing Tournament held at Talkatora Indoor Stadium, New Delhi from November 02-06, 2022.
Ajay, B.Sc. (H) Mathematics, II Year	Secured first position in treasure hunt conducted by the Comsoc – <i>Vanijya</i> at Acharya Narendra Dev College on March 23, 2023.
Radhika, B.Sc. (H) Mathematics, II Year	Secured first position in poster making competition organized by the Matrix society, Acharya Narendra Dev College on March 22, 2023.
Sushant, B.Sc. (H) Mathematics, II Year	Secured first position in Gully cricket organized during Leiothrix, Acharya Narendra Dev College on March 28, 2023.
Pooja Singh, B.Sc. (Prog.) Physical Science with Chemistry, I Year	Secured first place in <i>Kabaddi</i> (women) in FIT India Acharya Narendra Dev College Intra College Sports Tournament 2022-23.
Harshita Kushwaha, B.Sc. (H) Zoology, II Year	Won Micro Quiz in Microspher 2.0 held on occasion of International Microorganisms Day on September 17, 2022 under the aegis of IMiLI, INSCR, FEMS & ISME.
Anshika Sharma, B.Sc. (H) Zoology, II Year	Secured second Prize in Hindi Quiz Competition organized on Hindi Diwas September 17, 2022 by IIT Banaras Hindu University.

Shivam Tyagi, B.Sc. (H) Zoology, II Year	Secured first position in Badminton Double in Fit India Acharya Narendra Dev College League Sports Tournament 2022-2023.
	Secured second position in Badminton Mixed Double in Fit India Acharya Narendra Dev College League Sports Tournament 2022-2023.
Shaili Pal, B.Sc. (H) Zoology, I Year	Secured first position in Athletics Relay Race in Fit India Acharya Narendra Dev College League Sports Tournament 2022-2023.

4.1.6.2 Training Programs/Internships Attended by the Students

Name of the student, Course	Details of the training program/internship
Dev Pravin Rathod, Simran Kumari, Ujjwal Kumar, Gummadi Shyam Kumar, B.Sc. (H) Biomedical Science, I Year	Participated in the Training Programme of Palliative care for Volunteers conducted by Dharamshila Rahat Medical Centre, Delhi on March 25, 2023.
Gummadi Shyam Kumar, B.Sc. (H) Biomedical Science, I Year	Secured Content Writing internship at Marpu Foundation through Internshala on May 26, 2023.
Anshika Bansal, Arpit Sharma, Jasman Singh, Preksha, Sonam Soni, Saarthak Kumar, Suprobh Ahna Borah, Tamanna Saini, Tushar Pathak, B.Sc. (H) Biomedical Science, II Year	Completed a 60 hours value added course in Tools and Techniques in Biological Science conducted by Prime Minister's Research Fellow Scholars from IIT Delhi at Acharya Narendra Dev College (2022-23).
Anagha M P, B.Sc. (H) Biomedical Science, II Year	Completed one month internship training in Microbiology department of PK Das Institute of Medical Science, Kerala from June 19-July 18, 2023.
Arpit Sharma, B.Sc. (H) Biomedical Science, II Year	Completed a short term training program on the project entitled "A comparative analysis of ARG databases and search tools for searching ARGs using NGS data" under the supervision of Dr Amit Kumar Yadav, Senior Research Scientist, Translational Health Science and Technology Institute (THSTI), Faridabad from June 01-July 31, 2023.

Anshika Bansal, B.Sc. (H) Biomedical Science, II Year	Completed a course entitled 'Creating a business plan' organized by LinkedIn Learning on March 09, 2023.
	Completed a course entitled 'Understanding patents: a deeper dive' organized by LinkedIn Learning on March 09, 2023.
	Completed a course entitled 'Consulting foundations' organized by LinkedIn Learning on March 06, 2023.
	Completed a course entitled 'Critical role consultants play and the skills you need to fill them' organized by LinkedIn Learning on March 09, 2023.
	Completed a course entitled 'Business writing principles' organized by LinkedIn Learning on March 05, 2023.
	Completed a course entitled 'Getting your ideas approved' organized by LinkedIn Learning on March 06, 2023.
	Completed a course entitled 'Preparing for successful communication' organized by LinkedIn Learning on March 09, 2023.
	Completed a course entitled 'Leading with Innovation' organized by LinkedIn Learning on March 05, 2023.
	Completed a course entitled 'Creative Collaboration' organized by LinkedIn Learning on March 05, 2023.
	Completed a course entitled 'Understanding Intellectual Property' organized by LinkedIn Learning on March 05, 2023.
	Completed a course entitled 'Copyright for creatives: protecting your work' organized by LinkedIn Learning on March 05, 2023.
	Completed a course entitled 'Unique Ways to Generate Creative Ideas' organized by LinkedIn Learning on December 27, 2022.
	Completed a course entitled 'Thinking creatively' organized by LinkedIn Learning on November 17, 2022.

Asmita Nayak, B.Sc. (H) Biomedical Science, II Year	Completed a short term training program on the project entitled “Experimental training for basic laboratory skills” under the supervision of Dr Krishnamohan Atmakuri, Associate Professor, Translational Health Science and Technology Institute (THSTI), Faridabad from June 01-July 31, 2023.
	Completed the Vice Chancellor Internship Scheme as a part-time Intern at the Department of Chemistry, for six months from December 2022-June 2023.
Preksha, B.Sc. (H) Biomedical Science, II Year	Completed an online course on Python for Non-Programmers conducted by Great Learning Academy during February 2023.
Saarthak Kumar, B.Sc. (H) Biomedical Science, II Year	Worked as trainee in the research lab of Prof. B.K. Thelma, Department of Genetics, UDSC for four months from January 14-April 14, 2023.
	Completed the Vice Chancellor Internship Scheme as a part-time Intern at the Faculty of Science (Admin and Accounts) for six months from December 2022-June 2023.
Suprobh Ahna Borah, B.Sc. (H) Biomedical Science, II Year	Completed the Vice Chancellor Internship Scheme as a part-time Intern under International Biosafety Committee (IBSC), UDSC for six months from December 2022-June 2023.
Tamanna Saini, B.Sc. (H) Biomedical Science, II Year	Completed a short-term training program on the project entitled “Cloning, protein expression and purification of prophage Lysin B” under the supervision of Dr Ramandeep Singh, Professor, Translational Health Science and Technology Institute (THSTI), Faridabad from June 01-July 31, 2023.
Tushar Pathak, B.Sc. (H) Biomedical Science, II Year	Completed a collaborative online training program on ‘Entrepreneurship Development for Youth’ jointly organized by ICAR- Indian Agricultural Research Institute, Delhi and Manage Hyderabad from March 14-16, 2023.
	Completed the course on ‘Digital Productivity (Proficiency in Microsoft Word, Excel and Powerpoint)’ organized by YuWaah, Youth Development and Partnerships, UNICEF during January 2023.
Ajay Kumar Singhmar, B.Sc. (H) Biomedical Science, III Year	Completed the ‘Inter-College Summer Training Program on Green Fabrication of Silver Nanoparticles and its Antibacterial Efficacy’ organized by the Department of Biochemistry, Shivaji College, University of Delhi from June 09 - July 08, 2022.

Vridhi Singh, B.Sc. (H) Botany, II Year	Completed Vice Chancellor Internship from Dec 2022 - June 2023.
	Successfully completed a 60 hours value added course in Tools and Techniques in Biological Science conducted by Prime Minister's Research Fellow Scholars from IIT Delhi at Acharya Narendra Dev College (2022-2023).
	Successfully completed 'Training in Self- Defense Techniques' held at ANDC by the Special Police Unit For Women And Children Nankpura, Moti Bagh, New Delhi from November 21- 30, 2022.
	Successfully completed Bootcamp entitled Virtual Lab Development 2.0 organized under the aegis of DBT STAR College Scheme, ANDC, June 28-July 01, 2022.
Aniket Raj, B.Sc. (H) Botany, II Year	Secured first position in paper presentation on the occasion of world water day held in ANDC, on March 22, 2023.
Krishna Agrawal, Suman, Taruna, Himanshu Rawat, Ritvij Tiwari, Kapil Kumar Rathore, B.Sc. (H) Chemistry, III Year Abhishek Kumar, Anoop Kumar Thakur, Bipasa Arya, Dipankar Dev Rishi, Sarthak Singh, Akriti Singh, B.Sc. (H) Chemistry, II Year	Completed 60 hours Value Added Course in Research Methodology conducted by PMRF scholars from IIT Delhi (2022-2023).
Anuj Thakur, Anoop Kumar Thakur, Anurag Bamra, Dipankar Dev Rishi, Divya Gulihar, Sanya Chawla, B.Sc. (H) Chemistry, II Year	Completed three months Internship on "Safety and Greener Labs" from December 2022-February 2023.
Malika Khanna, Goransh Bharal, B.Com. (H), II Year	Participated as student co-ordinator in the One Day National Conference on "ONE EARTH ONE FAMILY ONE FUTURE" organized by the Department of Commerce, ANDC, DU and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with ICA Delhi NCR Chapter held at ANDC on April 03, 2023.

Mehak Bharti, B.Com. (H), I Year	Presented a Research paper titled “An analysis of Digital Marketing Strategies of select E-commerce companies in India” in the One Day National Conference on “ONE EARTH ONE FAMILY ONE FUTURE” organized by the Department of Commerce, ANDC, DU and Department College Interface, Department of Commerce, DSE, University of Delhi in collaboration with ICA Delhi NCR Chapter held at ANDC on April 03, 2023.
Malika Khanna, B.Com. (H), II Year	Completed Internship at <i>Kshitiksha</i> Foundation as a Social Media Marketing Intern for the period of 30 days held from May 08-June 07, 2023.
	Completed Internship at Optimum Wellness as a Digital Marketer for the period of 2 months held from April 20-June 20, 2023.
Goransh Bharal, B.Com. (H), II Year	Completed Internship program at Youngnity.in as the Business Development and Research specialist intern for the period of 14 days in June 2023.
	Completed Internship as a virtual intern at <i>Humari Pehchan</i> NGO held from May 22 - June 22, 2023
	Secured a Certificate of Star performer from Youngnity. in on June 07, 2023.
	Secured a certificate from Fast Starter for the Best Communicator on June 07, 2023.
Aayushi Gupta, Goransh Bharal, Mehak Bharti, B.Com. (H), II Year	Secured Letter of Experience from IIDE Digital School for completing one month internship program as Digital marketing intern of IIDE’S Global Virtual Internship programme, 2022.

Tushar Mittal, B.Com. (H), II Year	Completed a Certificate course on Foundations of Digital Marketing and E-commerce and certified by Google on May 02, 2023.
	Secured a certificate from Coursera for completing the course of Pre MBA statistics on May 03, 2023.
	Secured a certificate of Achievement on Completion of the Social Media Marketing Internship held from June 01-June 30, 2023.
	Completed Internship at <i>Shiksha Gurus</i> for the period of 15 days held from April 28-May 14, 2023 as a Social Media Marketing Intern.
Kamya Rana, B.Com. (H), II Year	Completed the Internship in the field of accounting and finance held from June 19-July 27, 2023 at AM & Associates, sector 30, DLF star tower, Gurgaon.
	Completed a Course of Financial Markets from Yale University offered through coursera on June 05, 2023.
	Secured Certificate of completion in Excel Skills for business virtual Experience Program from Forage (Goldman Sachs) held from March 2023-June 2023.
Rakshit Mittal, B.Com. (H), II Year	Secured certificate of Excellence for completing Campus ambassador programme at Tryst, IIT Delhi in association with Graphite GTC on May 02, 2023.
Anmol, B.Com. (H), II Year	Completed Marketing Intern Training Program (USA - Remote) at Fuze Mee held from June 20-July 19, 2023.
Mohd Kaif, B.Com. (H), II Year	Participated in student development program on Resume Building and Online Brand Management held at Jaipuria Institute of Management on November 16, 2022.
Rakshit Arora, B.Com. (H), III Year	Completed Internship with Mindler in the domain of Entrepreneurship, Marketing and Life Skills held from November 24-December 30, 2023.
Rohita Arora, B.Sc. (H) Computer Science, I Year Manya Batra, B.Sc. (H) Zoology, I Year	PR Intern for one year at Book With Uva 2022-23, organized by Book With Uva, ANDC, DU.

S. Kanak Megha, B.Sc. (H) Computer Science, II Year	Completed successfully a 7-days bootcamp “C++ Data Structures and Algorithms” organized by GDSC KIIT CHAPTER and DEVTOWN in September 2022 virtually.
	Completed successfully a 7-days bootcamp “Artificial Intelligence” organized by GDSC KIIT CHAPTER and DEVTOWN in September 2022 virtually.
Himanshu Raj, B.Sc. (H) Computer Science, II Year	Received certificate for being Graphic designer intern at DU.today from March 11-August 11, 2023.
	Received certificate for being Campus Ambassador intern at DU.today from November 11, 2022-01 March, 2023.
Rajat Sharma, B.Sc. (H) Computer Science, III Year	Received certificate of accomplishment For outstanding contribution to the UNICEF Passport to Earning (P2E) skilling program, organized by UNICEF in April, 2023 (virtual event).
	Successfully completed a course on “Digital Productivity” organized by UNICEF in January, 2023 virtually.
Avishkaar Pawar, B.Sc. (H) Computer Science, II Year	Completed self paced training course “Machine Learning Onramp” provided by MathWorks on October 26, 2022.
	Successfully completed Responsive Web Design Developer Certification organized by freecode camp on June 22, 2023.
	Successfully cleared the assessment for skill SQL(Basic) organized by the Hacker Rank on April 30, 2023.
Manish Mehra, B.Sc. (H) Computer Science, II Year	Completed 5 months internship as Snapchat Opinion Leader provided by UNDER25 from September 2022 to Jan 2023.
Ananya Shukla, B.Sc. (H) Computer Science, III Year	Completed an online course on “Google Data Analytics” provided by collaboration of Coursera and Google on November 25, 2022.
Mayank Kumar, Nishant Pratap Singh, B.Sc. (H) Computer Science, II Year	Contributed to a Research Project under SARP named “Motion Detection Using PIR and Magnetic Sensor” for SPIE Student Chapter, University Of Delhi at Acharya Narendra Dev College, 2022-23.
Alisha Khan, Vridhi Singh, B.Sc. (H) Botany, III Year Anshu Kumari, B.Sc. (H) Electronics, II Year Manya Batra, B.Sc. (H) Zoology, I Year	Completed training in ‘Self Defence Techniques’ by Special Police Unit for Women and Children, Nanakpura, Motibagh, New Delhi from November 21-30, 2022

4.1.6.3 Participation by Students in Various Conferences/Workshops

Name of the student, Course	Details of the event
Aakanksha Rathee, Dev Pravin Rathod, Shalini Verma, Ujjwal Kumar, B.Sc. (H) Biomedical Science, I Year Anagha M P, Anshika Bansal, Arpit Sharma, Asmita Nayak, Saarthak Kumar, Sonam Soni, Suprobh Ahna Borah, Tamanna Saini, Tushar Pathak, B.Sc. (H) Biomedical Science, II Year	Participated in one day Hands on workshop on Forensic Science Workshop organized by Department of Biomedical Science, ANDC on April 12, 2023.
Aakanksha Rathee, B.Sc. (H) Biomedical Science, I Year	Participated as a Delegate in Youth Speak Forum'23 conducted by AIESEC at IIT Delhi on April 30, 2023.
Alia Siddiqui, B.Sc. (H) Biomedical Science, I Year	Participated in a one day workshop on "Arduino & Sensor Interfacing" organized by SPIE Student Chapter, University of Delhi at ANDC on January 28, 2023. Participated in the event 'Bliss' during <i>Kashiyatra</i> '23, the annual socio-cultural festival of IIT (BHU) Varanasi, held from January 20-22, 2023.
Alia Siddiqui, Dev Pravin Rathod, B.Sc. (H) Biomedical Science, I Year	Participated in a one day workshop entitled 'Hologram recording and Reconstruction' organized by SPIE Student Chapter, University of Delhi at ANDC on February 04, 2023.
Gummadi Shyam Kumar, B.Sc. (H) Biomedical Science, I Year	Presented a research paper entitled 'Rural marketing and consumer behavior' in the one day International Conference on 'One Earth. One Family. One Future' organized by the Department of Commerce, ANDC and Department College Interface, Delhi School of Economics in collaboration with Indian Commerce Association (ICA) Delhi NCR Chapter on April 03, 2023.
Ujjwal Kumar, B.Sc. (H) Biomedical Science, I Year	Participated in Inter college speech competition on the topic 'Purpose of Life' organized by International Association of Youth and Students for Peace-India and Zero Hour- the debating Society of Aryabhatta College, University of Delhi on March 15, 2023.
Preksha, B.Sc. (H) Biomedical Science, II Year	Participated in 'Stand up against street harassment' training program organized by Breakthrough and Loreal Paris 2023.

Suprobh Ahna Borah, Tamanna Saini, Tushar Pathak, B.Sc. (H) Biomedical Science, II Year Vishal Gupta, B.Sc. (H) Electronics, II Year	Participated in IP awareness/training program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, India on August 27, 2022.
Anagha M P, B.Sc. (H) Biomedical Science, II Year	Participated in 'Hands on workshop on PCR and Real Time PCR techniques organized by BIONEST, UDSC July 11-12, 2022.
Arpit Sharma, Asmita Nayak, Tushar Pathak, B.Sc. (H) Biomedical Science, II Year	Attended International Symposium on 'Chronobiology and Mental Health' organized by the Department of Biochemistry, Institute of Home economics, University of Delhi from March 06-07, 2023.
Arpit Sharma, Jasman Singh, Asmita Nayak, Saarthak Kumar, Suprobh Ahna Borah, Tamanna Saini, B.Sc. (H) Biomedical Science, II Year	Attended the lecture series on 'Bacterial pathogenesis: The Role of Stress' held at Multidisciplinary Centre for Advanced Research and Studies (MCARS) on February 16, 2023.
Jasman Singh, B.Sc. (H) Biomedical Science, II Year	Participated in Swachh Yamuna Mission organized by YSS Foundation on the occasion of Earth Day, April 22, 2023.
Sarathak Kumar, Suprobh Ahna Borah, B.Sc. (H) Biomedical Science, II Year	Participated in Mimamsa 2023 Prelims organized by IISER, Pune on January 29, 2023.
	Participated in a one day workshop 'Animal Welfare Progress in India' organized by CSIR-IGIB, Delhi on January 28, 2023.
	Participated in National Symposium on Frontiers in Biomedical Research (FBR) 2022 organized by ACBR, University of Delhi from November 02-04, 2022.
Anshika Bansal, Sonam Soni, Tamanna Saini, B.Sc. (H) Biomedical Science, II Year	Participated in an online quiz competition organized by <i>Sashakt</i> The Women Empowerment Society on the theme International Day for the Elimination of violence against Women on November 28, 2022.
Suprobh Ahna Borah, B.Sc. (H) Biomedical Science, II Year	Attended Episode 1 of ISCB RSG India's 'Meet the Bioinformatician (MTB) series organized by Department of Biophysics, University of Delhi on March 27, 2023.
	Participated in 'Unnati' Mahotsav and Expo organized by <i>Unnat Bharat Abhiyan</i> , IIT Delhi from March 17-18, 2023.

Tamanna Saini, B.Sc. (H) Biomedical Science, II Year	Participated in the <i>Rashtriya Ekta Diwas</i> Quiz organized by the Ministry of Education, Govt. Of India, on November 20, 2022.
Anshika Bansal, Tamanna Saini, Tushar Pathak, B.Sc. (H) Biomedical Science, II Year Ajay Kumar Singhmar, Saarthak Kumar, B.Sc. (H) Biomedical Science, III Year	Participated in One Day Workshop on “Roadmap for Patent Creation” organized by the Translational Health Science and Technology Institute (THSTI) in collaboration with Cell for IPR Promotion and Management (CIPAM), Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India on August 22, 2022.
Ankita Malakar, B.Sc. (H) Biomedical Science, III Year	Participated in the National workshop “PCR, RT-PCR and their applications” organized by CIIDRET, University of Delhi from March 13-17, 2023.
Aniket Raj, B.Sc. (H) Botany, I Year	One day Hands On Workshop on Forensics Science organized by Department of Biomedical Science, ANDC on April 22, 2023.
Vridhi Singh, B.Sc. (H) Botany, III Year	Participated in first National Conclave on Environment and Happiness held at Paintal Memorial Golden Jubilee Auditorium, Vallabhbbhai Patel Chest Institute, DU on November 11, 2022.
	Participated in Centenary Run organized by University of Delhi on November 18, 2022.
	Presentation in ‘Inter NSS Presentation Competition’ on “Anti-tobacco” at Sri Venkateswara College on February 13, 2023.
	Presented paper during 7 th Annual International Conference of INSCR on “Modulating The Environment With Microbes” on November 08-11, 2022.
	Presented paper in Prof. B. M. Johri Rolling Shield Paper Presentation organized by Delhi University Botanical Society on February 03, 2023.
	Presented paper in One Day National Conference on “ONE EARTH, ONE FAMILY, ONE FUTURE” organized by the Department of Commerce, Acharya Narendra Dev College, University of Delhi and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with (ICA) Delhi NCR Chapter held at ANDC on April 03, 2023.

Alisha Khan, B.Sc. (H) Botany, II Year	Participated in Inter-NSS Presentation Competition on Anti-Tobacco Theme held at Sri Venkateshwara College on February 13, 2023.
	Attended the lecture series on “Bacterial Pathogenesis: The role of Stress” held at MCARS on February 16, 2023.
Mohd Kaif, B.Com. (H), II Year	Participated in student development program on Resume Building and Online Brand Management held at Jaipuria Institute of Management on November 16, 2022.
Bipasa Arya, B.Sc. (H) Chemistry, II Year	Participated and presented a paper entitled “Hydrothermal synthesis of magnetic nanoparticles and their UV-Visible analysis” in International Conference on Nanotechnology: Opportunities and Challenges in November 2022.
Abhijit Roy, Abhishek Kumar, Anoop Kumar Thakur, Mansi Meena, Sarthak Singh, Anurag Bamrara, Sneha Mehra, B.Sc. (H) Chemistry, II Year Ritvij Tiwari, B.Sc. (H) Chemistry, III Year Mahima Rajput, Roshan Bhagat, Jumana Basheer, Komal Kumari, Rishabh, Taniya, Adarsh Kumar, Ayushi Singh Rajawat, Purvi, Anjali Chauhan, Hridya S Warriar, Harsh Kumar Sangat, Nidhi Singh, Rishika, Devanand Singh, Devansh Dwivedi, B.Sc. (H) Chemistry, I Year	Participated in Hands-on Workshop on “Safer and Greener Chemistry lab” in January 2023.
Shubh Sankhyadhar, B.Sc. (H) Computer Science, II Year	Participated in the “Speak For India Debate” competition organized by Times Of India and Federal Bank held at Shri Ram College, Delhi University on February 24, 2023.
	Participated in the “National Debate Competition” organized by Mewar University, Rajasthan from March 01-03, 2023.
	Participated in the “Intercollege Speech Competition” organized by Peace India group held at Aryabhata College, Delhi University on March 15, 2023.
	Participated in an online “Youth Conclave 2023” organized by a Youtube channel- Detox with Sandeep on August 17, 2023.

Rajat Sharma, B.Sc. (H) Computer Science, III Year	Participated in the Online Quiz Competition organized by <i>Sashakt</i> The Women Empowerment Society on the theme “ International day for the elimination of violence against women”, ANDC, DU on November 26, 2022.
Ayush Yadav, S. Kanak Megha, Shubh Sankhyadhar, Arpit Bharadwaj, B.Sc. (H) Computer Science, II Year	Attended MATLAB Workshop organized by Department of Computer Science, ANDC, DU on October 12 and 17, 2022.
S. Kanak Megha, B.Sc. (H) Computer Science, II Year	Attended Power BI workshop organized by Ludifu in September 2022. (virtual workshop)
Rajat Sharma, B.Sc. (H) Computer Science, III Year	Attended IEEE SPS Seasonal school on “Quantum Computing and Machine Learning” organized by IIT, Delhi on April 14-15, 2023.
	Attended workshop on Arduino and Sensor Interfacing organized by SPIE Student Chapter, Acharya Narendra Dev College, Delhi University on January 28, 2023.
Arpit Bharadwaj, B.Sc. (H) Computer Science, I Year	Attended workshop on “Artificial Intelligence in Modern Biology” organized by ICGEB, New Delhi from August 23-25, 2022.
Ananya Shukla, B.Sc. (H) Computer Science, III Year	Received certificate of appreciation for attending National Workshop “Skill Enhancement of Non-Teaching Staff” organized by ANDC, DU from July 13-20, 2022.
Mayank Kumar, B.Sc. (H) Computer Science, II Year	Participated in a workshop entitled “Hologram Recording and Reconstruction” on February 04, 2023 organized by the SPIE Student Chapter, University of Delhi at ANDC.
Mayank Kumar, Nishant Pratap Singh, B.Sc. (H) Computer Science, II Year	Attended V-Lab Development Revisit Bootcamp 2.2 held from April 24-28, 2023, organized by ANDC.
Vishal Gupta, B.Sc. (H) Electronics, II Year	Completed Online course on “Overview of Geocomputation and Geo-web services” organized by International Space Research Organisation October 31, 2022.

Parivesh Dhakar, B.Sc. (H) Electronics, III Year	Participated in All India University Fencing championship held from December 20-23, 2022.
Ayush Singh Yadav, Babli, B.Sc. (H) Mathematics, II Year	Participated in the National Intellectual Property Awareness mission on August 27, 2022 in ANDC.
Radhika, Babli, B.Sc. (H) Mathematics, II Year	Participate in <i>Kashiyatra</i> fest in the event 'Hullad street play' conducted in IIT BHU on January 20-22, 2023.
	Participated in <i>Nukkad Natak</i> in Bharti Vidyapeeth Institute of computer applications and management on October 07-08, 2022.
Radhika, B.Sc. (H) Mathematics, II Year	Participated in the events "Spoil the bees" and Asmita in <i>Kashiyatra</i> fest in IIT BHU on January 20-22, 2023.
Babli, B.Sc. (H) Mathematics, II Year	Participated in <i>Kashiyatra</i> fest in Sports Quiz in IIT BHU on January 20-22, 2023.
Abhay Gupta, Dhruv Bhasin, B.Sc. (H) Zoology, II Year	Completed internship titled "Techniques on Collection, Preservation and identification of Insects" at Zoological Survey of India, Northern Regional Centre, Dehradun from June 05-July 14, 2023.
Abhay Gupta, Manya Batra, B.Sc. (H) Zoology, I Year	Participated in the online Quiz Competition organized by <i>Sashakt</i> The Women Empowerment Society on the theme International day for the Elimination of Violence against women on November 26, 2022.
Manya Batra, B.Sc. (H) Zoology, I Year	Completed two months Internship as Human Resources Associate Intern in Begin from November 2022-January 2023.
Shagun Singh, Harshita Kushwaha, B.Sc. (H) Zoology, II Year	Completed 60 Hours value added course on Research Methodology conducted by Prime Minister's Research Fellow Scholars from IIT Delhi at ANDC from 2022-2023.

Malika Khanna, B.Com. (H), II Year	Participated as Resource Person in the National Workshop on Career and Skill Enhancement for Non-Teaching Staff organized by ANDC, DU from September 15-21, 2022.
	Participated in Seminar on Exploring the Power of Breath and Mind “Know Your Mind” organized by <i>Har Ghar Dhyam</i> , ANDC in collaboration with The Art of Living exclusively for Teaching and Non-teaching staff of ANDC on July 19, 2023.
	Participated in Student Development Program on Resume Building and Online Brand management organized by Jaipura Institute of Management, Noida on November 16, 2022.
Rajkumar Jain, B.Sc. (H) Zoology, III Year Harshita Khushwaha, B.Sc. (H) Zoology, II Year	Resource person for One-week Revisit Bootcamp 1.1 for V-Lab Development from January 09-14, 2023.
Dhruv Bhasin, Anshika Sharma, B.Sc. (H) Zoology, II Year	Attended One day workshop on Quantitative microbial ecology: Opportunities and Way-ahead held at ANDC organized in association with Gargi College, UoD; IMiLI-SAC & PhixGen Pvt. Ltd. on February 04, 2023.
Vridhi Singh, B.Sc. (H) Botany, III Year Anshika Sharma, Harshita Kushwaha, Abhay Gupta, Dhruv Bhasin, B.Sc. (H) Zoology, II Year	Participated in Microsphere 2.0 held on occasion of International Microorganisms Day on September 17, 2022 under the aegis of IMiLI, INSCR, FEMS & ISME.
Abhijit Roy, Bipasa Arya, Sanya Chawla, B.Sc. (H) Chemistry, II Year Abhay Gupta, Dhruv Bhasin, B.Sc. (H) Zoology, II Year	Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, India on August 27, 2022.
Harshita Khushwaha, B.Sc. (H) Zoology, II Year	Participated in a Photography competition organized by Department of Zoology, Shivaji College on February 08, 2023.
Anshika Sharma, B.Sc. (H) Zoology, II Year	Participated in कहानी वाचन प्रतियोगिता, आशुभाषण प्रतियोगिता, रचनात्मक लेखन प्रतियोगिता organized on Hindi Diwas by IIT BHU on September 17, 2022.

4.2 Class Representatives

Course and Year	Class Representative
B.Sc. (H) Biomedical Science, I Year	Nikita
B.Sc. (H) Biomedical Science, II Year	Yash Kumar
B.Sc. (H) Biomedical Science, III Year	Mehak Sharma
B.Sc. (H) Botany, I Year	Aniket
B.Sc. (H) Botany, II Year	Jitesh
B.Sc. (H) Botany, III Year	Yashraj
B.Sc. (H) Chemistry, I Year	Abhishek
B.Sc. (H) Chemistry, II Year	Jyoti Mishra
B.Sc. (H) Chemistry, III Year	Dhananjay
B.Sc. (H) Computer Science, I Year	Harshit Raizada
B.Sc. (H) Computer Science, II Year	Riyansh Sharma
B.Sc. (H) Computer Science, III Year	Pratham Sharma
B.Com. (H), I Year (Sec.-A)	Vivek Kunwar
B.Com. (H), I Year (Sec.-B)	Shreya Gupta
B.Com. (H), II Year (Sec.-A)	Shashank Singh
B.Com. (H), II Year (Sec.-B)	Manju Yadav
B.Com. (H), III Year (Sec.-A)	Nishant Sharma
B.Com. (H), III Year (Sec.-B)	Akshat Mishra

B.Sc. (H) Electronics, I Year	Jugantar Sensua
B.Sc. (H) Electronics, II Year	Vishal Gupta
B.Sc. (H) Electronics, III Year	Sanju Singha
B.Sc. (H) Mathematics, I Year	Sunil Kumawat
B.Sc. (H) Mathematics, II Year	Radhika
B.Sc. (H) Mathematics, III Year	Ashutosh Chaubey
B.Sc. (H) Physics, I Year	Harsh Agrahari
B.Sc. (H) Physics, II Year	Shivam
B.Sc. (H) Physics, III Year	Vaibhav Thapliyal
B.Sc. (H) Zoology, I Year	Aparna Chowdhury
B.Sc. (H) Zoology, II Year	Dhruv Bhasin
B.Sc. (H) Zoology, III Year	Manisha
B.Sc. (Prog.) Physical Science with Electronics, I Year	Kausthub Rawat
B.Sc. (Prog.) Physical Science with Electronics, II Year	Esha Kaushik
B.Sc. (Prog.) Physical Science with Electronics, III Year	Anuj
B.Sc. (Prog.) Physical Science with Chemistry, I Year	Simran Phabrani
B.Sc. (Prog.) Physical Science with Chemistry, II Year	Himanshu Singh Jakkhad
B.Sc. (Prog.) Physical Science with Chemistry, III Year	Suraj Sengar
B.Sc. (Prog.) Physical Science with Computer Science, I Year	Jitender Prasad Arya
B.Sc. (Prog.) Physical Science with Computer Science, II Year	Ansh Nimker

B.Sc. (Prog.) Physical Science with Computer Science, III Year	Rahul
B.Sc. (Prog.) Life Science, I Year	Sidhharth Khanduri
B.Sc. (Prog.) Life Science, II Year	Muskan
B.Sc. (Prog.) Life Science, III Year	Ishika

4.3 Result Analysis

University Guidelines

The examination scheme of University of Delhi is as follows:

Computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

1. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student i.e.

$SGPA (S_i) = \Sigma(C_i * G_i) / \Sigma C_i$ where C_i is the number of credits of the i th course and G_i is the grade point scored by the student in the i th course.

2. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$CGPA = \Sigma(C_i * S_i) / \Sigma C_i$ where S_i is the SGPA of the i th semester and C_i is the total number of credits in that semester.

3. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

The University of Delhi follows a 10-point grading system with the following letter grades as given below:

Table 1: Grades and Grade Points

Grade	Grade Point
O (Outstanding)	10
A+ (Excellent)	9
A (Very Good)	8
B+ (Good)	7
B (Above Average)	6
C (Average)	5
P (Pass)	4
F (Fail)	0
Ab (Absent)	0

College Performance

	I Year	II Year	III Year
No of students appeared	781	618	554

No of students passed (including ER)	780	615	537
Pass Percentage	99.87	99.51	96.93
No of students passed (excluding ER)	651	537	519
Pass Percentage	83.35	86.89	93.68

Performance Analysis: Department wise

Comparative pass% (Excluding ERs)

Name of the Department	I Year	II Year	III Year
Biomedical Science	86.00	95.56	100.00
Botany	89.47	86.05	100.00
Chemistry	96.88	88.10	89.47
Commerce	81.41	91.35	100.00
Computer Science	83.51	94.34	100.00
Electronics	72.97	88.37	95.12
Mathematics	88.89	92.59	96.23
Physics	68.63	95.24	65.85
Zoology	85.37	100.00	100.00
Physical Science	82.58	60.55	91.67
Life Science	86.49	95.56	88.57

Result Analysis Semester-wise CBCS: (2021-2022)

Department-wise Percentage of Students obtaining the desired SGPA (CBCS I Semester, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
SGPA											
9-10	0.00	3.51	6.25	31.41	30.93	18.92	48.15	3.92	17.07	37.88	2.70
8-9	38.00	61.40	71.875	58.97	53.61	48.65	33.33	64.71	46.34	40.91	56.76
7-8	44.00	31.58	18.75	5.77	20.62	21.62	16.67	21.57	21.95	17.42	29.73
6-7	16.00	0.00	3.125	3.85	3.09	8.11	1.85	7.84	4.88	1.52	5.41

Department-wise Percentage of Students obtaining the desired SGPA (CBCS II Semester, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
SGPA											
9-10	8.00	3.51	3.125	0.00	4.12	0.00	3.70	0.00	2.44	1.52	0.00
8-9	26.00	26.32	3.125	0.64	12.37	5.41	12.96	5.88	19.51	9.85	13.51
7-8	32.00	17.54	25.00	3.21	22.68	8.11	27.78	21.57	31.71	9.85	27.03
6-7	14.00	29.82	28.125	25.00	24.74	10.81	25.93	19.61	24.39	24.24	22.97

Department-wise Percentage of Students obtaining the desired CGPA (CBCS I Year, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
CGPA											
9-10	0.00	3.51	3.125	0.00	5.15	0.00	3.70	0.00	4.88	3.03	0.00
8-9	32.00	26.32	12.5	3.85	29.90	16.22	37.04	13.73	34.15	22.73	25.68
7-8	44.00	52.63	46.875	54.49	31.96	24.32	38.89	35.29	26.83	38.64	37.84
6-7	10.00	8.77	34.375	30.13	19.59	35.14	12.96	25.49	19.51	24.24	21.62

Department-wise Percentage of Students obtaining the desired SGPA (CBCS III Semester, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
SGPA											
9-10	17.78	53.49	28.57	22.12	35.85	4.65	48.15	26.19	50.00	27.19	33.33
8-9	55.56	32.56	47.62	72.12	56.60	60.47	40.74	59.52	36.84	41.23	48.89
7-8	13.33	9.30	16.67	4.81	3.77	23.26	9.26	11.90	13.16	20.18	13.33
6-7	6.67	2.33	2.38	0.96	3.77	11.63	0.00	0.00	0.00	6.14	4.44

Department-wise Percentage of Students obtaining the desired SGPA (CBCS IV Semester, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
SGPA											
9-10	13.33	53.49	2.38	0.96	9.43	0.00	1.85	2.38	2.63	0.00	0.00
8-9	31.11	32.56	19.05	11.54	18.87	13.95	16.67	26.19	39.47	2.63	26.67
7-8	33.33	9.30	26.19	36.54	37.74	16.28	25.93	35.71	34.21	17.54	35.56
6-7	6.67	2.33	23.81	25.96	16.98	32.56	24.07	23.81	10.53	25.44	20.00

Department-wise Percentage of Students obtaining the desired CGPA (CBCS II Year, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
CGPA											
9-10	13.33	4.65	4.76	0.96	9.43	0.00	5.56	2.38	10.53	0.00	2.22
8-9	44.44	44.19	40.48	35.58	43.40	20.93	37.04	52.38	55.26	18.42	46.67
7-8	24.44	25.58	33.33	44.23	39.62	39.53	40.74	38.10	21.05	23.68	35.56
6-7	4.44	11.63	7.14	16.35	1.89	32.56	12.96	4.76	13.16	33.33	8.89

Department-wise Percentage of Students obtaining the desired SGPA (CBCS V Semester, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
SGPA											
9-10	18.42	10.00	50.00	55.32	34.69	14.63	81.13	78.05	29.73	34.62	11.43
8-9	68.42	70.00	23.68	43.62	46.94	29.27	18.87	17.07	37.84	45.19	68.57
7-8	13.16	20.00	21.05	1.06	18.37	31.71	0.00	2.44	21.62	15.38	14.29
6-7	0.00	0.00	2.63	0.00	0.00	21.95	0.00	0.00	5.41	4.81	0.00

Department-wise Percentage of Students obtaining the desired SGPA (CBCS VI Semester, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
SGPA											
9-10	2.63	35.00	21.05	5.32	34.69	2.44	9.43	4.88	27.03	1.92	2.86
8-9	36.84	55.00	26.32	36.17	34.69	4.88	11.32	14.63	13.51	19.23	20.00
7-8	23.68	5.00	36.84	31.91	16.33	34.15	37.74	19.51	29.73	52.88	31.43
6-7	23.68	5.00	10.53	21.28	12.24	36.59	16.98	17.07	21.62	22.12	28.57

Department-wise Percentage of Students obtaining the desired CGPA (CBCS III Year, 2021-2022)

Dept	BMS	Botany	Chem	Comm	CS	Elect	Math	Phys	Zool	PS	LS
CGPA											
9-10	5.26	30.00	26.32	9.57	34.69	7.32	16.98	12.20	24.32	3.85	0.00
8-9	50.00	55.00	31.58	54.26	34.69	12.20	41.51	29.27	32.43	50.00	34.29
7-8	28.95	10.00	34.21	36.17	24.49	51.22	30.19	43.90	18.92	37.50	45.71
6-7	10.53	5.00	2.63	0.00	6.12	24.39	9.43	2.44	21.62	10.58	11.43



5. Achievements of Faculty



5 ACHIEVEMENTS OF FACULTY

5.1 'निष्ठा' ANDC Service Award

College instituted निष्ठा ANDC Service Award in 2017-18 to felicitate the college employees for completing given years of service. Award has been constituted for employees that include teaching staff and non-teaching staff working in substantive capacity and principal rendering given years of regular service to the college. Teaching and non-teaching staff completing 25 years of regular service and Principal completing 10 years of service at Acharya Narendra Dev College, University of Delhi shall be eligible for this award. It will be a commemorative award consisting of a specially designed plaque, shawl and a certificate. Award shall be given on Annual Day celebrations of the college every year. The following Teaching and Non-Teaching staffs have completed 25 years of service in the college as on December 31, 2022 and will be recipient of निष्ठा ANDC Service Award.

Teaching Staff

S.No.	Name	Department	Date of Joining
1.	Prof. Amit Garg	Electronics	December 10, 1997

Non-Teaching Staff

S.No.	Name	Department	Date of Joining
1	Mr Surender Sharma	Laboratory Assistant	March 05, 1997
2	Mr Mahinder Singh Rawat	Laboratory Assistant	March 05, 1997
3	Mr Yashvir Singh	Laboratory Assistant	March 05, 1997
4	Mr Ravinder Kumar Bastia	Gestetner Operator	March 05, 1997
5	Mr Raghubir	Safai Karamchari	March 06, 1997
6	Mr Santosh Kumar	Safai Karamchari	March 06, 1997
7	Mr Ashok Kumar	Safai Karamchari	March 06, 1997
8	Mr Baij Nath Sah	Mali	March 07, 1997
9	Mr Virender	Mali	March 07, 1997
10	Mr Jai Karan Singh	Laboratory Assistant	March 11, 1997
11	Mr Sher Singh	Office Attendant	March 11, 1997
12	Mr Ram Kumar Singh	Laboratory Assistant	March 11, 1997
13	Mr Ravinder Kumar Pande	Senior Assistant	March 19, 1997
14	Mr Kamaljit Singh	Senior Assistant	March 27, 1997
15	Mr Homanath Sharma	Driver	March 27, 1997
16	Mr Diwakar Bhardwaj	Semi-Professional Assistant	April 02, 1997
17	Mr Vinod Kumar	Library Assistant	April 02, 1997
18	Mr Ram Niwas Yadav	Laboratory Assistant	April 04, 1997
19	Mr Suresh Kumar	Laboratory Assistant	April 04, 1997
20	Mr Atlesh Kumar Tanwar	Laboratory Assistant	April 04, 1997
21	Mr Sachchidanand Mishra	Laboratory Assistant	April 04, 1997

22	Mr Shahban Ali	Waterman	April 11, 1997
23	Mr Sanjeev Kumar	Laboratory Assistant	April 15, 1997

5.2 Achievements of Prof. Ravi Toteja, Officiating Principal

This year Prof. Ravi Toteja, Principal of ANDC has taken significant steps to upgrade the infrastructural facilities @ANDC. The vibrant campus created under his guidance has enhanced the overall learning environment for students and faculty. Upgraded facilities include the following:

1. Newly Constructed/Established Research Wing: This is significant step towards fostering a culture of research and innovation within the institution. This facility is providing necessary infrastructure and support for students engaged in research.
2. Central Instrumentation Facility with state-of-art equipments for Physical and Life Science students.
3. Modern Class rooms with projectors.
4. Well equipped laboratories with each lab in each department installed with Smart Panels with latest IT facilities.
5. Washrooms with vending facility for girl students. All the facilities are enabled for physically challenged staff and students.
6. Lush green Campus that has enhanced the aesthetic appeal of the college but is also promoting a healthy and conducive environment for learning and personal growth.
7. Fully air-conditioned canteen with modern aesthetics and infrastructure.

Prof. Ravi Toteja had also taken several Green initiatives like:

- (1) Installation of solar panels
- (2) Installation of vermi-compost unit
- (3) Safe disposal of e-waste and biowaste

He has initiated ANDC *Kaushal Kendra* under which following Skill Centres are developed in the college:

- (1) Sericulture Skill Development Centre
- (2) Mushroom Research and Skill Development Centre (MRSDC)
- (3) Zebra Fish Culture Facility
- (4) Virtual Labs

He was key person in designing syllabus of four papers of Skill Enhancement Course on Sericulture:

1. Sericulture-I: Mulberry Silkworm Rearing
2. Sericulture-II: Eri Silkworm Rearing
3. Sericulture-III: Silk Technology
4. Sericulture-IV: Application of Sericulture in Therapeutic and Cosmetic Industry

College has been granted status of Nodal centre for Sericulture by the University of Delhi under his able leadership. This year National Level FDP was organized on Sericulture: Rearing and its applications for the faculty of all the colleges of the University under his patronship.

He is Co-ordinator of DBT STAR College Scheme and has organized more than 100 workshops/seminars/invited talks and outreach activities under its umbrella. This year, under his leadership

college organized two online International Conferences under DBT STAR COLLEGE Scheme:

- 7th **International Conference of National Soil Contamination and Research (INSCR 2022) Modulating the Environment with Microbes in collaboration with Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), PG Department of Zoology, Magadh University (MU), Ramjas College (DU), Sri Venkateswara College (DU), Sri Guru Tegh Bahadur Khalsa College (DU), C.M.P. College (AU), Bhaskaracharya College of Applied Sciences, Shivaji College, Miranda House, KIIT Bhubenswar, Devbhoomi, U.K., Kolhan University, Jharkhand, PhiXgen Pvt. Ltd., Gurugram and College of Commerce, Arts & Science, Patna from November 07-11, 2022.**
- **International E-Conference on “International Symposium on Ciliate Biology (ISCB 2022) on November 08, 2022.**

By organizing all these activities, he has fulfilled the mandate of DBT STAR Scheme. All the purchases under NR grant of DBT has also been successfully completed within the scheduled time under his guidance.

He is chairperson of Institutional Biosafety Committee, ANDC inStart Foundation, Animal ethical Committee and IQAC (Internal Quality Assurance cell).

Reviewed following articles for Journals:

- (1) Biosorption of Lead (Pb) by Pb-resistant microorganisms isolated from E-waste dump yard – A strategy for microbiological bioremediation for the Journal: Biomass Conversion and Biorefinery.
- (2) Toxicological Effects Of Chlorpyrifos Ethyl on the freshwater Ciliate *Paramecium* sp. for the Journal: Analele Universitatii din Oradea, Fascicula Biologie (AUOFB) academic Journal

He has published research articles in peer-reviewed journals and presented various research papers at National and International conferences. At present he is supervisor of four Ph.D. Students and has guided several post-graduate students for their dissertations.

In addition, he is Co-PI of DST SERB Research Project titled ‘DNA Barcoding for ciliate species identification of Delhi, India.

He is also associated with several professional bodies. He is a Life member of Indian Society of Parasitology, Association of Teachers in Biological Sciences (ATBS), Indian Network for Soil Contamination Research (INSCR). He chaired a session in 2nd **International Conference on Natural Products and Human Health-2022**, organized by Deshbandhu college from November 04-06, 2022 and in 9th International Conference on Education (ICEDU-2023) in March 2023.

Under his leadership, this year the College signed several **Memorandum of Understandings (MoU)** with PhiXgen.Pvt.Ltd.

5.3 Contribution of Faculty to School/College Education

5.3.1 Books/Chapters (in Educational Books) Published

Faculty	Title	Publication	Year
Dr Sunita Jetly Dr Archana Pandey Dr Satendra Singh (Biomedical Science)	Human adult T-cell leukemia virus type 1 (HTLV1) 2023	Emerging Human Viral Diseases, Springer	2023
Prof. Charu Khosla Gupta Dr Yash Mangla (Botany)	Reproductive biology of angiosperms-concepts and laboratory methods	Cambridge University Press	2022
Dr Yash Mangla (Botany)	Current status of chromosome-based gender determination in seabuckthorn	The Seabuckthorn Genome, Springer-Nature, Switzerland	2022
Prof. Sunita Hooda Prof. Geetu Gambhir (Chemistry) Prof. Sarita Kumar (Zoology)	Evolution in graphene oxide-based materials characterization and modeling	Comprehensive Materials Processing, 2e, Springer https://doi.org/10.1016/B978-0-323-96020-5.00017-0	2022
	Modeling & characterization of guar-gum based nanocomposites for water purification	Comprehensive Materials Processing, Springer https://doi.org/10.1016/B978-0-323-96020-5.00019-4	
Prof. Geetu Gambhir (Chemistry)	Role of ionic liquids and their future alternative toward protein chemistry	Advanced Applications of Ionic Liquids, Elsevier https://shop.elsevier.com/books/advanced-applications-of-ionic-liquids/akhter-siddique/978-0-323-99921-2	2022
Dr Surinder Kaur (Commerce)	Indian foreign policy	Self page Developer Pvt Ltd, Michigan, USA 2023	2023
Mr Vineet Girdharwal (Zoology)	Effect of climate change on environment, economy and livelihood	Vandana Publications, Lucknow	2022

5.3.2 Educational e-content Uploaded on the University of Delhi/Other Websites

Faculty	e-Content
Prof. Shallu Sachdeva (Chemistry)	- Complexometry V https://youtu.be/5yk7iZg3JoE - Complexometry VI https://youtu.be/LdEDdwBR9hU - Non Aqueous Solvents I https://youtu.be/OK4cvFQv2gs - Non Aqueous Solvents II https://youtu.be/TUYKWDjRRfQ - Non Aqueous Solvents III https://youtu.be/nFyu3rNh-7Y - Non Aqueous Solvents IV https://youtu.be/ls9qUI7cNnI - Gravimetry I https://youtu.be/H6MIngEYY8Q - Gravimetry II https://youtu.be/bNSP-Tn9-QU - Gravimetry III https://youtu.be/R5TB6rAPRz4 - Gravimetry IV https://youtu.be/z1owttVD2Ec - Silicates I https://youtu.be/nMXCmmOvDis - Silicates II https://youtu.be/b8n96XL7V2A
Prof. Geetu Gambhir (Chemistry)	Classification and nomenclature of organic compounds, B.Sc. (H) Chemistry, Semester-I, Organic Chemistry, Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, University of Delhi
Dr Surinder Kaur (Commerce)	Financial Accounting - Syllabus and Paper Pattern, B.Com(Hons), Delhi University, NEP 2022 (English) https://youtu.be/EMyqSJbVT8c
	Financial Accounting - Syllabus and Paper Pattern, B.Com(Hons), Delhi University, NEP 2022 (Hindi) https://youtu.be/fk2TwYj8r60
Prof. Arijit Chowdhuri (Physics)	Basics of Operational Amplifiers Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=HkG7ujN1kxk&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=20 Counters Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=E8FyeRkfdnA&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=19 Shift Register (Universal) – I Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=U9Ay5LLgiz4&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=17 Shift Register (Universal) – II Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=KR9jk5rRYw&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=18

Prof. Arijit Chowdhuri (Physics)	Shift Register – I Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=HbYfMWGKsYU&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=15
	Shift Register – II Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=50iAC2GO0Y&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=16
	Flip Flops – I Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=9QPQUIEMCCM&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=13
	Flip Flops – II Recorded for Consortium for Educational Communication (CEC), New Delhi, India https://www.youtube.com/watch?v=aHrL4aakHaM&list=PLNsppmbLKJ8L5-b3dqLXnhnrn-z3UsAKel&index=14
Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Enzymatic Activity of Trypsin https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/trypsin/trypsin.html
	Presence of DNA in ciliates https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/dna/dna.html
	PAS Reaction by Mucopolysaccharides https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/pas/pas.html
	Proteins by Mercuric Bromophenol Blue https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/mbb/mbb.html

5.3.3 Enriching School/College Education

Faculty Involved (Department)	Contribution	Duration
Dr Sunita Jetly (Biomedical Science)	Resource Person in the Biomedical Society annual event, Cathexis'23 to give a talk on “Menstrual Hygiene” at Acharya Narendra Dev College.	April 13, 2023
Dr Sunita Jetly Dr Archana Pandey Dr Ritu Khosla (Biomedical Science)	Resource Person in National hands-on workshop on “PCR for Diagnostics and Gene Expression Analyses” organized by Dr B. R. Ambedkar Center for Biomedical Research and Acharya Narendra Dev College, University of Delhi, New Delhi.	September 27-29, 2022

Dr Archna Pandey Dr Satendra Singh Dr Rimpay Kaur Chowhan Dr Ritu Khosla Dr Deepshikha (Biomedical Science) Dr Surinder Kaur Dr Shalu Mahajan Dr Sandeep Kumar Goel Dr Jitender Goel Mr Ankit Singh CA Yask Sain (Commerce) Dr Sunita Narang (Computer Science) Dr V. Bhasker Raj (Physics) Dr Rahul Dev Mr Vineet Girdharwal (Zoology)	Resource Person in National Workshop on “Career and Skill Enhancement for Non-teaching Staff” organized by Department of Commerce and IQAC under DBT star College Scheme, Acharya Narendra Dev College, University of Delhi, New Delhi.	September 15-21, 2022
Dr Satendra Singh Dr Rimpay Kaur Chowhan Dr Ritu Khosla (Biomedical Science) Dr Anita Narang (Botany) Prof. Geetu Gambhir (Chemistry) Dr Shalu Mahajan Dr Sandeep Kumar Goel (Commerce) Prof. Anju Agrawal Prof. Amit Garg Dr Ravneet Kaur Ms Gauri Ghai Dr Monika Bhattacharya (Electronics)	Resource Person in National Workshop on Skill Enhancement of Non-Teaching Staff (NWSSENS-2022) at Acharya Narendra Dev College.	July 13-20, 2022

Prof. Urmi Bajpai (Biomedical Science) Dr Anupama Shukla Dr Anita Narang Dr Sumit Sahini Dr Vineet K Singh (Botany) Prof. Seema Makhija Prof. Ravi Toteja (Zoology)	Resource person for one-day workshop on 'Quantitative Microbial Ecology: Opportunities and way ahead' at Acharya Narendra Dev College, University of Delhi.	February 04, 2023
Dr Yash Mangla (Botany)	Resource person for Six days hands-on National workshop on 'Microtomy: Principle, Procedures and Applications' in Department of Botany, University of Jammu, J&K.	October 07-12, 2022
Prof. Seema Gupta (Chemistry)	Workshop for 'Identification of core concepts in science from classes VI to XII' in the light of NEP 2020 at Department of Education in Science and Mathematics, NCERT, New-Delhi	January 23-25, 2023
Prof. Shallu Sachdeva (Chemistry)	Judge in an Inter School Science competition "Festival della Scienza 2.0" at DPS, R K Puram	April 29, 2023
	Judge in Science experiment events in St. Mary's School, Dwarka	November 18, 2022
Prof. Rashmi Thukral (Chemistry)	Conducted workshops in five schools on Safer and Greener Chemistry Labs	January 28-31, 2023
	Resource person in One-day National workshop on Safer and Greener Chemistry Labs conducted by Abhikriya, Department of Chemistry, Acharya Narendra Dev College under DBT Star Scheme in association with GAD TLC.	January 13, 2023
Prof. Pankaj Khanna (Chemistry)	Use of blog https://khannapankaj.wordpress.com/ for classroom teaching.	Continuously updated from July, 2022-June, 2023
Dr Kavita Mittal (Chemistry)	Worked as resource person in a one-day Hands-on workshop on "Learning Science through Experiments" organized under DBT Star College Scheme by Department of Chemistry, Acharya Narendra Dev College, DU.	December 07, 2022
Dr Ravneet Kaur (Electronics)	Resource Person in a five-day workshop on "Development of Audio Video Resources based on Laboratory Manual in Science at Upper Primary Stage " held at DESM, NCERT, New Delhi.	February 27-March 03, 2023

Dr Ambika Negi (Physics)	Visited IUAC with 10 undergraduate students of B.Sc. (H) Physics	February 28, 2023
Prof. Sarita Kumar (Zoology)	Resource Person in Workshop on 'Modification and Upgradation of Biology and Biotechnology Laboratory', DESM, NCERT.	August 01-05, 2022
	Online Review Workshop (reviewing the e-content, uploading Comments & Suggestions on the Google Drive Link Shared, and coordinating with MPD, CIET, NCERT faculty.	October-December, 2022
	Editor of theory course material of 'Parasitology' for M.Sc. Zoology, IGNOU (Should be in school enrichment)	July 2022-June 2023

5.4 Awards/ Honors

Awardees' Name (Department)	Name of the Award/Honor	Awarded/Honored by	Awarded on Date
Prof. Urmi Bajpai (Biomedical Science)	Featured among the 35 "Young Vigyan Vidushis" -the next generation of women in STEM in the book entitled Vigyan Vidushi: 75 Women Trailblazers of Science	Vigyan Prasar, Department of Science & Technology (DST), Government of India	April, 2023
	'SBRT Fellow' Awardee	Indian Bacteriophage Society for Distinguished and Sustained contribution to Bacteriophage Science Communication	November 27, 2022
Dr Rakesh Kumar Sonker (Physics)	BRICS Young Scientist, 2022	BRICS	August 29-September 01, 2022
Dr Sunita Jetly (Biomedical Science)	Appreciation Certificate as Program officer NSS for Blood Donation and Thalassemia Screening	Delhi State Health Mission, Delhi state AIDS Control Society and State Blood Cell	June 14, 2023
Prof. Shallu Sachdeva (Chemistry)	Proud Indian Iconic Reader and Researcher Award 2023	Ratna Prasad Multidisciplinary Research and Educational Society	January 26, 2023
	Global academic Research Excellence Award of Best Faculty in Chemical Sciences	MKSES Educational Society, Lucknow	July 31, 2022

Prof. Charu K Gupta (Botany)	Session Chair, 9 th International Conference on Education 2023-"Equitable Education in the Post-Pandemic World"	The International Institute of Knowledge Management, Sri Lanka.	March 16-17, 2023
Dr Anita Narang Prof. Charu K Gupta (Botany) Prof. Seema Gupta Prof. Pooja Bhagat (Chemistry) Prof. Sharanjit Kaur (Computer Science) Prof. Anju Agrawal (Electronics) Prof. Rachna Joshi (Physics)	Session Chair, 3 rd International Symposium on Ciliate Biology (ISCB-2022)	Acharya Narendra Dev College and Maitreyi College, University of Delhi under the aegis of DBT STAR College Scheme and IQAC.	November 08, 2022
Dr Ravneet Kaur (Electronics)	Session Chair, International Conference on Advances in IoT, Security with AI (ICAISA-2023)	Deen Dayal Upadhyaya College, University of Delhi, Sector-3, Dwarka	March 24, 2023
Prof. Seema Makhija (Zoology)	Session Chair, 2 nd International Conference on Natural Products and Human Health-2022.	Department of Zoology, Deshbandhu College, University of Delhi	November 04-06, 2022

Dr Rimpay Kaur Chowhan (Biomedical Science) Dr Yash Mangla (Botany) Prof. Shallu Sachdeva Dr Pragati Malik Dr Kavita Mittal (Chemistry) Ms Gauri Ghai (Electronics) Mr Abhay Pratap Singh (Environment Science) Prof. Seema Makhija Dr Rahul Dev (Zoology)	Session Co-Chair, 3rd International Symposium on Ciliate Biology (ISCB-2022)	Acharya Narendra Dev College and Maitreyi College, University of Delhi in collaboration with Indian Network for Soil Contamination Research, INSCR	November 08, 2022
Prof. Charu Khosla Gupta (Botany) Prof. Geetu Gambhir Prof. Pooja Bhagat (Chemistry)	Session Co-Chair, One-day at National Conference on “One Earth, One Family, One Future”	Acharya Narendra Dev College	April 03, 2023

5.5 Invited Talks

Faculty (Department)	Details
Prof. Urmi Bajpai (Biomedical Science)	• “Bacteriophages: the dark matter of the biospheres” in a symposium on Data Driven Approaches to Understand Biological Systems at the CSIR-IGIB, Mathura Road on April 29, 2023. • “Unleashing Potential, Breaking Boundaries” on the International Day for Women & Girls in Science at the CSIR, HRDG, Pusa on February 10, 2023. • “Bacteriophages and Lysin Banks to Combat Antibacterial Drug Resistance” at the 63rd Annual International Conference of Association of Microbiologists (AMI) of India at the MDU, Rohtak on February 04, 2023. • “Importance of Bacteriophage and Lysin Banks to Mitigate the Silent Pandemic” at the 3rd International Conference on Bacteriophage Research and Antimicrobial Resistance (ICBRAR) on November 27, 2022. • Co-panelist with Prof. Herman Barkema, University of Calgary, in an online panel discussion on “Antimicrobial Resistance & One Health: Stakes involved and the way forward”, organized by IBLOT, EBPMN and TechInvention Pvt Ltd on November 18, 2022 (Online). • “Computational Mining of Bacteriophage Genomes for Antibacterial Agents. At the Department of Computational Biology, Indraprastha Institute of Information Technology (IIIT), Okhla Phase III, Delhi on July 01, 2022.
Dr Sunita Jetly (Biomedical Science)	Talk on “ Menstrual Hygiene” on April 13, 2023 on the occasion of Cathexis’23 organized by Department of Biomedical Science, Acharya Narendra Dev College.
Dr Sandeep Kumar Goel (Commerce)	Lecture on Investment Options for Salaried Class, 1 st Online 2-Week Refresher Course in Economics, Commerce and Management, UGC-Human Resource Development Centre (Academic Staff College), Jamia Millia Islamia, New Delhi, November 07, 2022.
Prof. Seema Makhija (Zoology)	Delivered a talk and conducted a workshop on ‘Fascinating World of Microbes, Protozoans and Career Opportunities’ in G. D. Goenka University, Gurugram on May 16, 2023.

5.6 Conferences, Workshops, Training Programmes Organized

Faculty (Department)	Details
Prof. Urmi Bajpai, Convener Dr Archana Pandey Dr Satendra Singh Dr Rimpay Kaur Chowhan (Biomedical Science)	A hands-on workshop on “Phage Discovery and Genome Analysis” was organized from January 20-25, 2023 in collaboration with CIIDRET, IoE DSEED, University of Delhi and in association with SBRT.
Dr Sunita Jetly (Biomedical Science)	- Organized Free Cancer Awareness Program at various locations of Delhi & Uttar Pradesh, including: - Prateek Stylome, Sector 45, NOIDA. June 04, 2023 - Sector 26, NOIDA. May 06, 2023 - Rassolpur Dasna, UP. March 15, 2023 - Hyde Park, Sector 78, NOIDA. February 04, 2023 - Supreme Court. November 23, 2022 - NRI Residency Sector 45 NOIDA. November 26, 2022 - MLA office opp Aurobindo market, Hauz khas. November 05, 2022 - Llyod Institute of Management and Technology, Noida. August 03, 2022 - Sector 51, Kendriya Vihar apartment Association Noida. August 05, 2022 - Koshika, Department of Zoology, University of Delhi. July 07, 2022 - Shakti Shalini, Nehru Nagar, Delhi. July 25, 2022 - Organized Thalassemia Awareness Program at various locations of Delhi & Uttar Pradesh, including: - Shyama Prasad Sarvodaya Vidyalaya Chitranjan Park Delhi. May 11, 2023 - Ganga Ram Hospital (invited by Thalassaemic India 35 years Old NGO for thalassemia to showcase our work). May 09, 2023 - Ramjas College. March 01, 2023 - Rajguru College of Applied Sciences for Women. November 01, 2022 - Miranda House, University of Delhi. July 08, 2022
Dr Sunita Jetly Dr Ritu Khosla Joint-Convener (Biomedical Science)	National hands-on workshop on “PCR for Diagnostics and Gene Expression Analyses” organized at Dr B.R. Ambedkar Center of Biomedical Research from September 27-29, 2022.

Dr Archna Pandey, Convener Dr Satendra Singh Dr Rimpay Kaur Chowhan Dr Ritu Khosla Dr Deepshikha (Biomedical Science)	Organized the following: • Cathexis' 23 - Annual festival of Department of Biomedical Science (Theme: Reproductive Health) at Acharya Narendra Dev College on April 13, 2023. • One-day Hands-on Workshop on 'Forensic Science' at Acharya Narendra Dev College on April 12, 2023. • Panel Discussion with Alumni of Biomedical Science Department at Acharya Narendra Dev College on April 11, 2023.
Dr Archna Pandey Dr Rimpay Kaur Chowhan (Biomedical Science) Dr Rashmi Sharma Dr Sumit Sahni Dr Vineet Kumar Singh (Botany) Prof. Geetu Gambhir (Chemistry) Prof. Seema Makhija, Convener Mr Ravinder Sagar Dr Rahul Dev Dr Neelgagan Singh Dr Sushma Bhardwaj (Zoology)	Organized One-day workshop on quantitative microbial ecology: opportunities and way-ahead in association with Gargi College, University of Delhi, IMIL-SAC & PhixGen Pvt. Ltd. that was sponsored by International Society for Microbial Ecology (ISME) on February 04, 2023.

Dr Archna Pandey, Convener Dr Satendra Singh Dr Rimpay Kaur Chowhan Dr Ritu Khosla Dr Deepshikha (Biomedical Science) Dr Rashmi Sharma, Convener Dr Sumit Sahni Dr Vineet Kumar Singh Dr Manoj Kumar Singh (Botany) Prof. Seema Makhija, Convener Dr Rahul Dev Dr Neelgagan Singh Mr Vineet Girdharwal Dr Sushma Bhardwaj Ms Bhumika Chauhan Mr Abhay Pratap Singh (Zoology)	Outreach Workshop on “Cell and Molecular Biology Techniques” at Acharya Narendra Dev College from October 12-13, 2022.
Dr Archna Pandey, Convener Dr Satendra Singh Dr Rimpay Kaur Chowhan Dr Ritu Khosla Dr Deepshikha (Biomedical Science) Prof. Rashmi Sharma, Convener Dr Manoj Kumar Singh Dr Sumit Sahni Dr Vineet Kumar Singh (Botany) Prof. Seema Makhija, Convener Dr Neelgagan Singh Dr Rahul Dev Dr Vineet Girdharwal (Zoology)	• One-day seminar on “Studying in Europe-Interaction with seniors” in the ANDC career counseling series at Acharya Narendra Dev College on August 29, 2022. • Organized “Superheroes against superbugs”, a workshop on antimicrobial resistance and foldscope at Acharya Narendra Dev College on October 11, 2022.

Dr Archna Pandey Dr Satendra Singh Dr Rimpay Kaur Chowhan Dr Ritu Khosla Dr Deepshikha (Biomedical Science) Dr Surinder Kaur, Convener Ms Poonam Chauhan Ms Rupali Pabreja Dr Shalu Mahajan, Convener Dr Sandeep Kumar Goel Dr Jitender Goel Mr Ankit Singh CA Yask Sain (Commerce) Prof. Sunita Hooda (Chemistry) Dr Ravneet Kaur (Electronics) Prof. Sada Nand Prasad (Mathematics) Prof. Seema Makhija (Zoology)	Organized National workshop on “Career and Skill Enhancement of Non teaching Staff” at Acharya Narendra Dev College on September 15-21, 2022.
Dr Archna Pandey, Convener (Biomedical Science) Dr Rashmi Sharma Dr Manoj Kumar Singh Dr Vineet Kumar Singh (Botany) Prof. Sunita Hooda Prof. Pooja Bhagat Prof. Geetu Gambhir (Chemistry) Prof. Chandra Kanta Samal (Computer Science) Dr Ravneet Kaur (Electronics) Prof. Arijit Chowdhuri (Physics) Prof. Seema Makhija, Convener (Zoology)	Organized National workshop on “Skill Enhancement of Non-teaching Staff” at Acharya Narendra Dev College from July 13-20, 2022.

Dr Anita Narang Prof. Charu K Gupta (Botany)	- Organized a talk on 'Millets: Our National Pride' by Dr S. P. Singh, Principal Scientist, Division of Genetics, ICAR-IARI on March 27, 2023 - Organized a talk by Dr Inderjeet Kaur Sethi (Indian Cancer Society) on 'Living in the Sunshine' on October 12, 2022.
Dr Anita Narang (Botany)	- Organized Inter-College quiz competition 'Strivia' on the occasion of International Women's Day on March 20, 2023. - Organized a talk on 'Gender Sensitization' by Ms Leena Zaveri (Advocate) on March 20, 2023. - Organized a series of events on Self esteem boost month (February 01-28, 2023) *Movie screening *Task solving competition *Fact-rize (quiz) *Talk by Ms Saloni Sahni - Organized poster making competition on National Girl Child Day on January 24, 2023. - Organized a talk on "How important it is to be financially, emotionally and mentally independent" by Mrs Harpreet Kaur on National Girl Child Day on January 24, 2023. - Organized Online quiz for teaching, non-teaching faculty and students on International day of discrimination against women on November 25, 2022. - Organized Self-defense camp for girl students at Acharya Narendra Dev College from November 21-30, 2022. - Organized an Intercollege debate competition at Acharya Narendra Dev College on November 12, 2022. - Organized a workshop on "Stress Management in College Life" at Acharya Narendra Dev College on October 10, 2022. - Organized a workshop on "Stand up against street harassment" at Acharya Narendra Dev College on September 12, 2022. - Organized Inter-college Reel making competition on International Breast Feeding Week from August 01-07, 2022.
Dr Anita Narang (Botany) Dr Surinder Kaur (Commerce)	Organized a workshop on "Personality Development and Menstrual Hygiene" at Acharya Narendra Dev College on September 26, 2022.
Prof. Charu K Gupta (Botany)	Member of the Organizing team DU 'Annual Flower Show', University Garden Committee at Gautam Buddha Garden, University of Delhi on March 02, 2023.

Dr Sumit Sahni Dr Vineet Kumar Singh Nodal Coordinator (Botany) Prof. Pooja Bhagat, Convener (Chemistry) Prof. Sharanjit Kaur, Convener Ms Nishu Singh, Ms Gunjan Rani (Computer Science) Prof. Seema Makhija, Nodal Coordinator Dr Rahul Dev (Zoology)	Organized five days Bootcamp, V-Lab Development 2.2 and V-lab development (Building Blocks of Simulator) under the aegis of DBT STAR College Scheme from April 24-28, 2023.
Prof. Seema Gupta (Chemistry)	Organized an online webinar on “Quillbot Awareness Program One-Stop Place for Making Writing Painless” on September 29, 2022
Prof. Pooja Bhagat, Convener Dr Kavita Mittal Dr Bhawna Kaushik (Chemistry) Prof. Seema Makhija, Convener Dr Rahul Dev (Zoology)	• Value Added Course (60 Hrs) on Tools and Techniques in Biological Sciences from August-November 2022. • Value added Course (60 Hrs) on Research Methodology for Physical Science Students from August-November 2022. • Certificate Course (40 Hrs) on Basics of Research Methodology from January 03-June 17, 2023.
Prof. Pooja Bhagat, Co-ordinator (Chemistry)	• Web Developer Course (400 Hrs) from March 14-November 21, 2022. • Concept Test in Chemistry 2022-23 at Homi Bhabha Center for Science Education (TIFR), Mumbai on November 05, 2022.
Prof. Pooja Bhagat (Chemistry) Prof. Seema Makhija (Zoology)	Organized an Online workshop on “IP Awareness/ Training” in association with Rajiv Gandhi National Institute for Intellectual Property Management (RGNIIPM) under National Intellectual Property Awareness Mission (NIPAM) on August 27, 2022.
Prof. Rashmi Thukral, Coordinator (Chemistry)	Organized One-day National workshop on Safer and Greener Chemistry Labs conducted by Abhikriya, Department of Chemistry, Acharya Narendra Dev College under DBT Star Scheme in association with GAD TLC on January 13, 2023
Dr Surinder Kaur Ms Poonam Chauhan Ms Rupali Pabreja (Commerce)	Seminar on “MBA as a course option” organized by Department of Commerce, Acharya Narendra Dev College on April 06, 2023.

Dr Surinder Kaur Ms Poonam Chauhan Ms Rupali Pabreja Dr Shalu Mahajan Dr Sandeep Kumar Goel Dr Jitender Goel (Commerce)	Seminar on “Accounting Standards” organized by Department of Commerce, Acharya Narendra Dev College on February 01, 2023.
Dr Surinder Kaur Ms Poonam Chauhan Ms Rupali Pabreja Dr Shalu Mahajan Dr Sandeep Kumar Goel, Convener CA Yask Sain, Teacher Coordinator Dr Jitender Goel, Co- convener Mr Ankit Singh (Commerce)	Organized Investor Awareness Programme on ‘Financial Empowerment Through Wealth Creation’, Department of Commerce, Acharya Narendra Dev College under the aegis of IQAC in collaboration with Association of Mutual Funds in India, February 07, 2023.
Ms Sangeeta Relan Ms Sadhna Gupta Dr Surinder Kaur, Conference secretary Ms Anuradha Sarin Ms Rupali Pabreja Dr Sandeep Kumar Goel, Convener Dr Sadanand Prasad, IQAC Coordinator Dr Shalu Mahajan, Co-Convener Ms Poonam Chauhan Dr Jitender Goel CA Yask Sain, Mr Ankit Singh Ms Hanisha Bhagat Ms Deepika Ms Sapna Yadav (Commerce)	Organized One-day National Conference on ‘One Earth, One Family, One Future’, Department of Commerce, Acharya Narendra Dev College under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce in collaboration with Delhi School of Economics, University of Delhi, Indian Commerce Association Delhi NCR Chapter on April 03, 2023.
Dr Surinder Kaur, Dr Sandeep Kumar Goel, Convener (Commerce)	Organized a workshop on ‘How to Write Research Papers’ by Bodhini, Academic Events and Research Committee, Department of Commerce under the aegis of IQAC, Acharya Narendra Dev College, University of Delhi on September 13, 2022.
Dr Surinder Kaur Dr Shalu Mahajan, Convener (Commerce)	Organized a seminar by Training, Learning and Placement cell, Department of Commerce in association with IQAC, Career Counseling and Placement cell under the aegis of Acharya Narendra Dev College on “Resume Building and Online Brand Management” on November 16, 2022.

Dr Sandeep Kumar Goel (Commerce)	Member, Organizing Committee for Round Table Discussion on 'Entrepreneurship, Innovation, Incubator, and Startup Ecosystem in India', organized by ANDC inStart Foundation, Acharya Narendra Dev College on April 17, 2023.
Dr Shalu Mahajan (Commerce)	Coordinator, Social outreach program on creating awareness about Down Syndrome, organized by NSS, Acharya Narendra Dev College on October 22, 2022.
Prof. Sharanjit Kaur, Convener Dr Sunita Narang, Convener Ms Gunjan Rani Mr Mahesh Kumar (Computer Science) Prof. Seema Makhija, Convener (Zoology)	Workshop on Revisit Bootcamp 1.1 for V-LAB development at Acharya Narendra Dev College from January 09-14, 2023.
Dr Sunita Narang Ms Nishu Singh, Ms Gunjan Rani (Computer Science)	Organized a Two-day workshop for students and faculty members on MATLAB by Mr Manoj Kumar (Applications Engineer at Design Tech Systems Pvt. Ltd.) on October 12 and 17, 2022.
Ms Nishu Singh, Ms Gunjan Rani (Computer Science)	Organized a technical talk on "Blockchain in Education" by Dr Ihtiram Raza Khan, Department of Computer Science and Engineering, Jamia Hamdard University at Acharya Narendra Dev College on April 11, 2023.
Dr Ravneet Kaur (Electronics) Dr Sanjay Kumar (Physics)	Workshop on Hologram Recording and Reconstruction under the student SPIE chapter, under the aegis of IQAC and DBT Star College Scheme, Acharya Narendra Dev College, University of Delhi on February 04, 2023.
Dr Ravneet Kaur (Electronics)	- One-day offline Workshop on Arduino and Sensor Interfacing under the student SPIE chapter, under the aegis of IQAC and DBT Star College Scheme, Acharya Narendra Dev College, University of Delhi on January 31, 2023. - Education visit to PM Museum (Pradhanmantri Sangrahalaya), New Delhi, New Delhi. under the DBT Star College Scheme by Acharya Narendra Dev College on September 24, 2022. - Education visit to Nehru Planetarium, New Delhi. under the DBT Star College Scheme by Acharya Narendra Dev College on September 24, 2022. - Hands-on Workshop on Arduino and Sensor Interfacing in technical collaboration with industry partner Touch Techno Pvt. Ltd. under the DBT Star College Scheme by Acharya Narendra Dev College on September 10, 2022.
Dr Narayan Singh (Mathematics)	Two days' Workshop on "Latex" at Operation Research Society of India Meerut Chapter, Meerut on February 25-26, 2023.

Dr V Bhasker Raj (Physics)	Organizing secretary in Hands on training workshop on “Semiconductor devices fabrication” at Miranda House, University of Delhi from March 20 - April 03, 2023.
Prof. Seema Makhija (Zoology)	Organized Microsphere 2.0, an International Outreach Program as an initiative to promote Microbial Literacy and Celebrating the diversity and wide applications of microbes on September 17, 2022
Dr Rahul Dev, Convener (Zoology)	Hands-on workshop on “Biological Techniques” organized by Department of Zoology, Acharya Narendra Dev College, University of Delhi on September 27-October 04, 2022.

5.7 Seminars, Symposia, Workshops, Training Programmes Participated/Attended

Faculty (Department)	Details
Dr Archana Pandey Dr Rimpay Kaur Chowhan Dr Ritu Khosla (Biomedical Science) Dr Anupama Shukla (Botany) Prof. Sharanjit Kaur (Computer Science) Mr Abhay Pratap Singh (Environment Science) Prof. Anju Agrawal (Electronics) Prof. Rachna Joshi (Physics) Dr Rahul Dev Dr Monica Misra (Zoology)	3rd International Symposium on Ciliate Biology (ISCB-2022) at Acharya Narendra Dev College on November 08, 2022.
Dr Rimpay Kaur Chowhan (Biomedical Science)	- Attended 15th virtual workshop organized by Dr Monika Fuxreiter, University of Padova (The Protein Society) on the theme “Computational Approaches to Protein Condensates” held online on January 24, 2023. - Attended National Symposium Frontiers in Biomedical Research 2022 (FBR-2022) on “Communicable and Non-Communicable Diseases: Prevention, Cure, and Future Preparedness” held at Dr. B. R. Ambedkar Center for Biomedical Research from November 02-04, 2022. - Attended Hands-on training workshop about “Animal models in teaching and research” at Banaras Hindu University from October 07-09, 2022.

Dr Rimpay Kaur Chowhan (Biomedical Science) Dr Anupama Shukla (Botany) Prof. Rashmi Thukral Prof. Pankaj Khanna Dr Kavita Mittal (Chemistry) Mr Ankit Singh (Commerce) Dr Ravneet Kaur (Electronics) Dr Priti Goyal (Physics) Dr Sarita Agarwal (Mathematics) Dr Aparna Sharma (Zoology)	Attended Online workshop on “IP Awareness/ Training” in association with Rajiv Gandhi National Institute for Intellectual Property Management (RGNIPM) under National Intellectual Property Awareness Mission (NIPAM) on August 27, 2022.
Dr Anupama Shukla (Botany)	• Attended National Seminar on ‘Recent trends in Life science entrepreneurship in the era of G20’ at Dyal Singh College, University of Delhi April 15, 2023 • Attended Seminar on “Insights into the Latest Developments in Fungal Biology” organized by Hansraj College, University of Delhi on Sep 03, 2022 • Attended Seminar on “Challenges and Research Opportunities in Oil Palm Tissue Culture” organized by Bio Gene July 23, 2022
Prof. Seema Gupta (Chemistry) Prof. Sada Nand Prasad (Mathematics) Ms Sapna Yadav (Economics)	Participated in One-day national conference One Earth, One Family, One Future at Acharya Narendra Dev College, University of Delhi on April 03, 2023.
Prof. Seema Gupta Prof. Pooja Bhagat Prof. Dinesh Kumar Arya (Chemistry)	Participated in the Hands-on Workshop on ‘Safer and Green Chemistry Lab’ jointly organized by the Chemical Society of ANDC and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College on January 13, 2023.
Prof. Rashmi Thukral (Chemistry)	Attended International Conference on Emerging Trends in Higher Education on March 28-29, 2023.

Prof. Rashmi Thukral Dr Kavita Mittal (Chemistry) Dr Surinder Kaur Ms Rupali Pabreja (Commerce) Prof. Sharanjit Kaur Dr Sunita Narang (Computer Science) Dr Priti Goyal Prof. Rachna Joshi (Physics)	Attended webinar on QUILLBOT – awareness program: One Stop Place For Making Writing Painless organized by Acharya Narendra Dev College Library, University of Delhi, on September 29, 2022.
Dr Kavita Mittal (Chemistry)	Attended One-day Hands-on Workshop on Forensics Science, organized by the Department of Biomedical Science, Acharya Narendra Dev College, University of Delhi on April 12, 2023.
Dr Surinder Kaur Ms Poonam Chauhan Ms Rupali Pabreja (Commerce)	Attended Five-days short term program on “Financial Literacy” organized by Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with ILL and association of Mutual funds in India from January 30- February 03, 2023.
Dr Surinder Kaur Dr Sandeep Kumar Goel (Commerce)	• One-day Seminar on How to Catch Fake/Clone/Predatory Journals in Academics organized by Rajdhani College, University of Delhi (Online) on August 27, 2022. • Attended National Webinar on ‘Bibliometric Analysis’, Research Affairs Committee, Rajdhani College, University of Delhi in collaboration with Department of Commerce, Delhi School of Economics, University of Delhi, August 13, 2022.

Dr Surinder Kaur (Commerce)	• Attended workshop on Basic and Advanced Tally with GST organized by Sri Ram College of Commerce, University of Delhi (Online) from January 13-14 2023. • Attended three Days National Workshop on Research Methodology and Research Ethics organized by Rajdhani College, University of Delhi (Online) from September 12-14, 2022. • Attended Lecture on Overview of Outcome Based Education organized by Sri Aurobindo College, University of Delhi (Online) on August 22, 2022. • Attended One-day Seminar on How to write an impactful Case Study organized by FORE School of Management, New Delhi (Online) on August 16, 2022. • Attended Digital Workshop for Generating Creatives organized by Sri Aurobindo College, University of Delhi (Online) on July 27, 2022.
Dr Shalu Mahajan Dr Jitender Goel (Commerce)	Participated in ICSSR Sponsored 8th Annual International Commerce Conference-2023 on Bharat@2047: Role of Commerce and Business, Department of Commerce, Delhi School of Economics, University of Delhi at Deen Dayal Upadhyaya College, University of Delhi, January 11-12, 2023.
Dr Jitender Goel (Commerce)	Attended the 10th International Conference on Advances in Business and Management, Business Practices in the Era of Sustainable Development Goals (SDGs) 2030 and New Age Technologies, Department of Commerce, Shaheed Bhagat Singh College on November 10-11, 2022, at Patel Chest Institute, University of Delhi.
Mr Ankit Singh (Commerce)	• Attended an online seminar on appointment of judges in High Court and Supreme Court: Interference vis a vis Independence organized by School of legal studies and Governance, CPU, Kota on February 25, 2023. • Attended One-day workshop on “Tools & Techniques for an Effective Literature Review” organized by Auro University, Surat, Gujarat on February 17, 2023. • Attended National Webinar on “Research Paper publication in Scopus Indexed journals” organized by Research and IP Cell, St Francis de Sales College, Bengaluru on February 11, 2023. • Attended One-day International Webinar on “Consequences of Cloned Journal Publications” organized by Research & IP Cell, St Francis De sales College, Aalo and St Francis De sales College, Bengaluru on February 04, 2023.

Prof. Sharanjit Kaur (Computer Science)	Participated in the 14th Asian Conference on Machine Learning, organized by Asian Machine Learning School at Indian School of Business, Hyderabad on December 08-10, 2022 and December 15-16, 2022.
Dr Sunita Narang Mr Mahesh Kumar (Computer Science) Ms Gauri Ghai (Electronics)	Participated in Course Workshop on “Digital Empowerment”, organized by Value Addition Courses Committee (University of Delhi) in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi on October 19, 2022.
Dr Sunita Narang (Computer Science)	Completed course on Building Recommender Systems with Machine Learning and AI of duration 11.5 hours from UDEMY at Acharya Narendra Dev College, University of Delhi on August 20, 2022.
Prof. Anju Agrawal (Electronics)	• Attended Webinar series by Leading Electron Devices Luminaries on “The Rise of Semiconductors” organized by IEEE Electron Device Society - Delhi Chapter (New Delhi, India), The National Academy of Sciences India - Delhi Chapter and Deen Dayal Upadhyaya College (University of Delhi) on June 19, 2023. • Attended Special Mini Colloquia (MQ) in Virtual Mode on "World Transistor Week" as part of the "75th Anniversary of Transistor Invention" organized by IEEE Electron Device Society - Delhi Chapter (New Delhi, India), The National Academy of Sciences India - Delhi Chapter and Deen Dayal Upadhyaya College (University of Delhi) during December 15-21, 2022. • Attended Special Mini Colloquia (MQ) in Virtual Mode on "History, Prospect and Future of Graphene based Devices and Systems" as part of the "75th Anniversary of Transistor Invention" organized by IEEE Electron Device Society - Delhi Chapter (New Delhi, India), The National Academy of Sciences India - Delhi Chapter and Deen Dayal Upadhyaya College (University of Delhi) during October 11-19, 2022. • Attended the Women in EDS Lecture Series on “Computational Electronics” organized by IEEE Electron Device Society - Delhi Chapter (New Delhi, India), on July 22, 2022.

Prof. Anju Agrawal Prof. Amit Garg Dr Ravneet Kaur Dr Monika Bhattacharya Ms Gauri Ghai (Electronics)	• Attended Virtual Mini Colloquia (MQ) on the 75th anniversary of Transistor Invention organized by IEEE EDS Delhi Chapter (New Delhi, India) from August 22-29, 2022. • Attended One Week Online Workshop on “Recent Development in the Field of Electronics (RDFE-2022)” organized by Department of Electronic Science, University of Delhi, in collaboration with IEEE EDS and IEEE APS & CRFID Delhi Chapter from July 25-29, 2022.
Prof. Anju Agrawal Dr Ravneet Kaur Dr Monika Bhattacharya (Electronics)	Attended Special Mini Colloquia (MQ) in Virtual Mode on "Emerging Device Architectures for Tunnel FET" as part of the "75th Anniversary of Transistor Invention" organized by IEEE Electron Device Society - Delhi Chapter (New Delhi, India), The National Academy of Sciences India - Delhi Chapter and Deen Dayal Upadhyaya College (University of Delhi) during September 26-October 05, 2022.
Dr Ravneet Kaur Ms Gauri Ghai (Electronics)	Attended training program on “New Measurement Technologies and Simulation Techniques in Electronics” organized by IEEE Electron Device Society-Delhi Chapter & Department of Electronic Science, University of Delhi South Campus during October 17-18, 2022.
Dr Monika Bhattacharya (Electronics)	Attended workshop on Science & Society organized by Value Addition Courses Committee (University of Delhi) in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College on October 20, 2022.
Prof. Sharanjit Kaur Prof. Chandra Kant Samal Ms Priyanka Sharma Ms Shiva Saini (Computer Science) Dr Monika Bhattacharya (Electronics) Prof. Sada Nand Prasad Dr Deo Datta Arya (Mathematics)	Participated in a two-day workshop on “MATLAB” organized by the Department of Computer Science, Acharya Narendra Dev College (University of Delhi) held on October 12-17, 2022.

Dr Joita Dhar Rakshit (English)	• Participated in the international conference on 'English Studies in India: Centenary Perspectives' organized by the Department of English, University of Delhi from February 28-March 02, 2023. • Participated in the course workshop on 'Culture and Communication' organized by the Value Addition Courses Committee (University of Delhi) and Sri Venkateswara College, University of Delhi on November 01, 2022. • Participated in the course workshop on 'Reading Indian Fiction in English' organized by the Value Addition Courses Committee (University of Delhi) and Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi on October 19, 2022.
Dr Sarita Agarwal (Mathematics)	• Participated in India UK International Webinar on entitled "Future of Teaching-Learning" organized by NPTC Group of Colleges, United Kingdom in Collaboration with Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the PMMMNM-TT, Ministry of Education on November 29, 2022. • Participated in National Webinar entitled "Role of Forensic Science in Legal Investigations", organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the PMMMNM-TT, Ministry of Education on November 12, 2022. • Participated in the Online Quiz Competition organized by Sashakt The Women Empowerment Society on the theme International day for the Elimination of Violence against Women, organized by Sashakt Society of Acharya Narendra Dev College on November 11, 2022.
Dr Sarita Agarwal Dr Narayan Singh (Mathematics)	Participated in Course Workshop on "Vedic Mathematics-I" organized by Value Addition Courses Committee (University of Delhi) in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi on October 19, 2022.
Dr Deo Datta Aarya (Mathematics)	Attended DST-SERB Sponsored One week National Workshop (Mathematical Modelling with Simulation in Applied Sciences) organized by Department of Mathematics, Central University of Haryana, Mahendergarh (Haryana) from May 22-26, 2023.

Dr Priti Goyal (Physics)	Participated in Elsevier Empowering Engineers to become Corporate Ready-Solving India Specific Grand Challenges 2022 at Elsevier, presented by Dr. Christopher F Cogswell, Dr. L.D. Dhinesh Babu, Dr. R. Baskaran, Dr M.S. Sricharan on September 14, 2022.
Prof. Rachna Joshi (Physics)	• Attended workshop on “How to get the most out of being a reviewer of scientific articles” organized by Elsevier Researcher Academy, on August 10, 2022. • Attended webinar on “Compliment Journals with reference books On Science Direct” organized by Elsevier Researcher Academy, held on July 28, 2022. • Attended webinar on “New PQDT Global and Citation Connection: Ideating Your Literature Review with New Insight” organized by University of Delhi in Collaboration with ProQuest, Part of Clarivate, held on July 14, 2022. • Attended webinar on “Research Data Management-Why It Matters and How to Manage” organized by Elsevier Researcher Academy at Elsevier Asia Pacific on Thursday July 14, 2022.
Dr Siddhartha (Physics)	• Attended a workshop on Gandhi and Education organized by Mahatma Hansraj Faculty Development Center under PMMMNMTT, Ministry of Education, Government of India on October 28, 2022. • Attended a workshop on Constitutional Values and Fundamental Rights organized by Mahatma Hansraj Faculty Development Center under PMMMNMTT, Ministry of Education, Government of India on October 21, 2022.

5.8 Faculty as Editors/Reviewers/Advisory

Faculty (Department)	Name of Journal/Committee
Dr Anita Narang (Botany)	Reviewer of Journals: • Plant Science Today • Journal of Tropical Life Sciences • Academic Journal of Kalindi College, University of Delhi
Prof. Charu Khosla Gupta (Botany)	Editorial board member of the International Journal of Coordination and Management in Sustainable Development (IJCMSD)
Prof. Sunita Hooda (Chemistry)	Reviewer of Journals: • African Journal of Pure and Applied Chemistry (AJPAC) • Pharmaceutical Biology • Environmental Sustainability • Journal of NanoScience and Nanotechnology • Carbohydrate Polymers • Advanced material Letters • ACS Omega • Indian Journal of Chemistry -Section A (IJCA) • Journal of Chemical & Engineering Data • Journal of Polymers and Environment • RSC Advances • Advanced Sustainable Systems
Prof. Pankaj Khanna (Chemistry)	• Reviewer of the journal, Frontiers in Chemistry • Reviewer of the journal, Chemistry & Biodiversity, Wiley Publishers
Dr Surinder Kaur (Commerce)	Reviewed an article titled Corporate Governance Characteristics, Financial Characteristics, and HR Practices Disclosures: An Indian Scenario for International Journal of Disclosure and Governance.
Prof. Amit Garg (Electronics)	Reviewer, Journal of Physics: Condensed Matter
Dr Ravneet Kaur (Electronics)	Expert Reviewer for IT related Vocational Education courses at Bhartiya Shiksha Board (BSB)
Dr Monika Bhattacharya (Electronics)	Expert Reviewer for IT related Vocational Education courses at Bhartiya Shiksha Board (BSB) (class IX-X)
Dr Rakesh Kumar Sonker (Physics)	Reviewer of Journals: • Multimedia Tools and Applications • RSC Advances • Journal of Hazardous Materials

Prof. Sarita Kumar (Zoology)	- Organized 2nd International Conference on Natural Products and Human Health-2022 at Deshbandhu College, University of Delhi as advisory Committee Member from November 04-06, 2022. (Move to advisory member) Reviewer of Journals: - Life (Switzerland) - Parasitology Research (Switzerland) - International Journal of Information and Education Technology (Australia) - International Journal of Tropical Insect Science (Nigeria), Environmental Quality Management (Australia) - Journal of Essential Oil Bearing Plants (UK) - Toxin Reviews (UK) - Arthropod-Plant Interactions (Netherlands) - Frontiers in Tropical Diseases (Switzerland) - Scientific Reports (USA) - Frontiers in Physiology (Switzerland) - Frontiers in Public Health (Switzerland) - Malaria Journal (UK) - Environmental Science and Pollution Research (Germany) Editorial Board: - Frontiers in Physiology (Switzerland) - Vector Biology Journal (USA) - The Open Access Journal of Science and Technology (UK) - Journal of Applied and Natural Sciences (Haridwar) - Journal of Advances in Medicine and Medical Research' (previously called British Journal of Medicine and Medical Research) (India, USA and UK)
Prof. Monisha Khanna Kapur (Zoology)	Reviewer, Indian Journal of Microbiology
Prof. Ravi Toteja (Zoology)	Reviewer of Journal: - Biomass Conversion and Biorefinery - Analele Universitatii din Oradea, Fascicula Biologie (AUOFB) academic Journal
Prof. Seema Makhija (Zoology)	Reviewer of Journal: - Heliyon-D-22-04324 - AUOFB journal - Ecological Indicators - Environmental Science and Pollution Research

5.9 Membership of Various Societies/Panels

Faculty (Department)	Membership
Prof. Urmi Bajpai (Biomedical Science)	- Co-founder: 'International Bacteriophage Research Consortium (IBRC) in collaboration with Open Health System Laboratories (OHSL), USA from 2018-till date - Member, Core Committee, VAC course 'Science & Society', University of Delhi from 2022-to date - Project Advisor, Open Source Pharma Foundation (OSPF), a Global Non-Profit Organization for Drug Discovery from 2019-to date. - Director, Phage Program, for OSPF - Advisor Tech Invention Lifecare Pvt. Ltd., Mumbai for the projects: - Advisor, "Design & Development of Recombinant Lysins against ESKAPE Pathogens and E.coli. September 2021 to date with an annual amount of INR 10 Lakhs till date - Honorary Advisor, "Development of recombinant lysins against drug-resistant Escherichia coli causing urinary tract infections appropriate expression system". Approved for funding under BIRAC's BIG scheme, Department of Biotechnology, Govt of India. May 2022-November 2023
Prof. Urmi Bajpai Dr Sunita Jetly Dr Archna Pandey Dr Rajesh Chaudhary Dr Satendra Singh Dr Ritu Khosla Dr Deepshikha (Biomedical Science)	Member of Committee for formulating syllabus of several courses under Undergraduate Curriculum Framework -2022 (UGCF- 2022)" based on National Education Policy 2020 for B.Sc. (H) Biomedical Science
Dr Sunita Jetly (Biomedical Science)	- Member, Department Research Committee, March 14, 2022-March 14, 2024 - Member Board of Research Studies, March 16, 2022 - March 15, 2024
Dr Sunita Jetly Dr Archna Pandey (Biomedical Science)	Member, Courses of Committee, Dr B. R.Ambedkar Centre for Biomedical Research, University of Delhi
Dr Archna Pandey (Biomedical Science)	Member, Governing Body, Acharya Narendra Dev College, University of Delhi

Dr Rimpay Kaur Chowhan (Biomedical Science)	Member of Committee for formulating syllabus of following courses under Undergraduate Curriculum Framework-2022 (UGC-F- 2022)" based on National Education Policy 2020 for B.Sc. (H) Biomedical Science. i. Concepts in Biotechnology ii. Drug Design and Discovery iii. Statistical Concepts in Biology iv. Bioinformatics & Omics v. Biostatistics
Dr Anupama Shukla Dr Anita Narang Prof. Charu Khosla Gupta (Botany) Prof. Seema Makhija Dr Rahul Dev (Zoology)	Life Member, Indian Network For Soil Contamination Research, INSCR
Dr Anupama Shukla Dr Anita Narang Prof. Charu Khosla Gupta (Botany)	Life Member, Delhi University Botanical Society.
Dr Anupama Shukla (Botany)	Life Member, Mycological Society Of India.
Dr Anita Narang Prof. Charu Khosla Gupta (Botany) Prof. Sarita Kumar Prof. Monisha Khanna Kapur Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Life Member, Association of Teachers in Biological sciences.
Prof. Charu Khosla Gupta (Botany)	- Scientific Committee Member and Evaluation Panel Member at the 9th International Conference on Education 2023-"Equitable Education in the Post-Pandemic World" organized by The International Institute of Knowledge Management, Sri Lanka. March 16-17, 2023 - Scientific Committee Member International Congress on Impacts of Climate Change on Agriculture, Ecosystems, and Human Health (ICCC 2022), Malaysia. November 16, 2022 - Life member international Society of Environmental Botanists
Dr Geetika Kalra (Botany)	Member of Committee for formulating syllabus of following courses under Undergraduate Curriculum Framework-2022 (UGC-F- 2022)" based on National Education Policy 2020 for B.Sc. (H) Botany: - Plant Physiology - Metabolism and Intelligent Systems in Plants
Prof. Shallu Sachdeva (Chemistry)	Membership of Ratna Prasad Multidisciplinary Research and Educational Society, January 2023

Prof. Rashmi Thukral (Chemistry)	- Life Member, Indian Society of Analytical Scientists-Delhi Chapter India-Life time membership - Life Member, Indian Association of Chemistry Teachers
Prof. Pankaj Khanna (Chemistry)	Core Committee Member for the formulation of UGCF-2022 Syllabus at the Department of Chemistry, University of Delhi
Dr Manisha Jain Dr Neeti Misra (Chemistry)	Member, Committee for formulation of 'Undergraduate Curriculum Framework (UGCF) based on National Education Policy (NEP) 2020' for B.Sc. (H) Chemistry (April 2023-till date).
Dr Manisha Jain (Chemistry)	Member, Committee for formulation of 'Undergraduate Curriculum Framework (UGCF) based on National Education Policy (NEP) 2020' for B.Sc. (Prog.) Physical Science and B.Sc. (Prog.) Life Science (April 2022)-till date).
Dr Neeti Misra (Chemistry)	Member of moderation committee for chemistry papers of University of Delhi.
Dr Kavita Mittal (Chemistry)	Life Member, Chemical Research Society of India, India (LM-929)
Dr Surinder Kaur Ms Poonam Chauhan Dr Sandeep Kumar Goel CA Yask Sain Mr Ankit Singh (Commerce)	Life Member, Indian Commerce Association.
Dr Surinder Kaur Dr Sandeep Kumar Goel (Commerce)	Life Member, Indian Accounting Association
Dr Sandeep Kumar Goel (Commerce)	- Joint Secretary, Indian Commerce Association, Delhi NCR Chapter - Executive Member, Indian Accounting Association, Delhi Chapter - Member Research Advisory Committee for Ph.D. student, Mr. Shiv Kumar, Department of Commerce, Delhi School of Economics, University of Delhi, since May 2023 - Member Expert Committee for curriculum design of B.Voc (Accounting and Finance) programme of first year and second year of Dr. B.R. Ambedkar University Delhi
Prof. Sharanjit Kaur (Computer Science)	- Life Member, Computer Society of India (CSI) - Member, Committee of courses and studies for UG, Department of Computer Science, DU (July 2022- June 2023) - Member of Committee for Curriculum Development of DSE for Multidisciplinary Courses of Study with three Core Disciplines for Department of Computer Science, University of Delhi in the year 2023 UG Level: i. Subject-Data Mining for Knowledge Discovery ii. Subject-Applied Network Analytics

Ms Gunjan Rani (Computer Science)	Member of Committee for formulating syllabus of following courses under Undergraduate Curriculum Framework-2022 (UGCF- 2022)” based on National Education Policy 2020 for B.Sc. (H) Computer Science: Android Programming using Java
Prof. Anju Agrawal (Electronics)	Member of Committee for formulating syllabus of following courses under Undergraduate Curriculum Framework-2022 (UGCF- 2022)” based on National Education Policy 2020 for B.Sc. (H) Electronics: Controls and Embedded System
Prof. Amit Garg (Electronics)	- Member, Society of Photo-Optical Instrumentation Engineers (SPIE), USA - Member, Committee for formulation of ‘Undergraduate Curriculum Framework (UGCF) based on National Education Policy (NEP) 2020’ for B.Sc. (H) Electronics (April 2023-till date)
Prof. Anju Agrawal Dr Ravneet Kaur Dr Monika Bhattacharya (Electronics)	Member, IEEE Electron Devices Society
Dr Ravneet Kaur (Electronics)	- Member of Committee for formulating syllabus of following courses under Undergraduate Curriculum Framework -2022 (UGCF- 2022)” based on National Education Policy 2020 for B.Sc.(H) Electronics: i. Game Development (SEC-4) ii. Programming Fundamentals using Python iii. RF and Communication Stream papers - Member, American Nano Society - Member IEEE Young Professional
Prof. Anju Agrawal Dr Ravneet Kaur (Electronics)	Member IEEE, USA
Prof. Sada Nand Prasad (Mathematics)	Coordinator for the Syllabus of B.A/B.Sc. (Prog.) 3-Core, 2-Core Courses and GE, Sem-VI, DSE: Dynamical Systems (3L + 1P) from March 20-30, 2023
Dr Narayan Singh (Mathematics)	- Life time member, Operational Research Society of India - Joint Secretary, Meerut Chapter of Operational Research Society of India
Prof. Arijit Chowdhuri Prof. Rachna Joshi Mr Pawan Kumar (Physics)	Plasma Science Society of India
Prof. Arijit Chowdhuri Prof. Rachna Joshi (Physics)	Life member, Indian Association of Physics teachers

Prof. Rachna Joshi (Physics)	- Life Member, Division of Plasma Physics, Association of Asia Pacific Physical Societies - Life Member, Indian Laser Association - Life Member, Indian Society of Atomic and Molecular Physics
Prof. Sarita Kumar (Zoology)	- Member, Doctoral Committee, Ph.D. Life Sciences, IGNOU - Member, Research Committee, Deshbandhu College - Life Member, Indian Science Congress, Delhi Chapter - Life Member, Association of Teachers in Biological Sciences (ATBS) - Life Member, National Academy of Vector Borne Diseases, Bhubaneswar - Life Member, Indian Society of Parasitology, Lucknow - Member, Scientific Advisory Board, Virginia, USA - External member, Research Advisory Committee of following doctoral scholars: vi. Vijay Kumar Shah – Registered under Prof. Kamal Kumar Gupta, Deshbandhu College vii. Ashu Chaudhary – Registered under Prof. Kamal Kumar Gupta, Deshbandhu College viii. Priyanka – Registered under Prof. Kamal Kumar Gupta, Deshbandhu College ix. Chandni – Registered under Prof. Kamal Kumar Gupta, Deshbandhu College x. Swati Maurya – Registered under Prof. Ravi Toteja and Prof. Seema Makhija, AND College xi. Anamika Yadav – Registered under Prof. Hardeep Kaur, Ramjas College
Prof. Ravi Toteja (Zoology)	Convener of Committee for formulating syllabus of the course “Biology of Cell: Structure and Function” under Undergraduate Curriculum Framework-2022 (UGCF-2022)” based on National Education Policy 2020 for B.Sc. (H) Zoology.
Prof. Seema Makhija (Zoology)	- Member of Committee for formulating syllabus of following courses under Undergraduate Curriculum Framework-2022 (UGCF-2022)” based on National Education Policy 2020 for B.Sc. (H) Zoology. i. Bioenergetics and Enzymology ii. Model Organisms in Research (Convener) - Life Member, Indian Society of Cell Biology - Life Member, International Society of Protistologists - Member of Institutional Biosafety Committee
Dr Rahul Dev (Zoology)	Member for setting of question papers by the Board of Examiners (paper setters) for undergraduate three year CBCS - LOCF Semester VI.

5.10 Other Involvements

Faculty (Department)	Achievements
Prof. Pooja Bhagat (Chemistry)	Subject Expert for Test Development Workshop at National Testing Agency (NTA) from July 08-09, 2022.
Prof. Rashmi Thukral (Chemistry)	Mentored Seven interns (UG) in a community outreach program on Safer and Greener Chemistry Labs. December 01-February 28, 2023.
Dr Manisha Jain (Chemistry)	Subject Expert (Chemistry) at National Testing Agency (NTA).
Dr Surinder Kaur (Commerce)	• Won Best paper award for a paper presented on “Phool: Journey from Waste to Wealth” in National Seminar on Sustainable Business Models for Atmanirbhar Bharat on November 21-22, 2022 organized by Bharati College, University of Delhi sponsored by ICSSR. • Published book review of “The Deficient Myth” by Stephanie Kelton in Journal of Economics and Finance, Hansraj College, University of Delhi.
Dr Sandeep Kumar Goel (Commerce)	• Academic Counsellor, School of Open Learning, University of Delhi for B.Com. (Hons.) and B.Com. Public Contact Programme Classes • Academic Counsellor, Indira Gandhi National Open University for M.Com. Counselling Sessions • External Examiner for Final Major Research Project e-viva (Code -403) for PGDM IVth Semester Students, New Delhi Institute of Management, New Delhi, May 06, 2023 • Nodal Officer, Acharya Narendra Dev College, ‘Har Ghar Dhyam’, Initiative of Art of Living under Memorandum of Agreement with University of Delhi, Delhi, April 2023 till date • Best Paper Award for Paper Presentation on “Contribution of FMCG Companies towards CSR: A Consumer’s Perspective” in One-day National Conference on ‘One Earth-One Family-One Future’, Acharya Narendra Dev College under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi and in collaboration with Indian Commerce Association Delhi NCR Chapter, April 03, 2023 • Superintendent, School of Open Learning Examinations at Acharya Narendra Dev College, 2022-23 • Part-Time Assistant Coordinator, IGNOU Learning Support Centre (07191) at Acharya Narendra Dev College, 2022-23 • Honorary Director, ANDC inStart Foundation, Section 8 Company at Acharya Narendra Dev College • Convener, Member and Moderator, B.A./B.Com./B.Com. (Hons.), Department of Commerce, Delhi School of Economics, University of Delhi, 2022-23 • Assistant Academic Coordinator, School of Open Learning, Learner Support Centre at Acharya Narendra Dev College since November 2022

Prof. Amit Garg (Electronics)	- Subject Expert in the Selection Committee for appointment of Assistant Professor for B.Tech programmes running in an affiliated engineering college under GGSIPU, Delhi - Subject Expert in the Selection Committee for appointment of Assistant Professor for B.Tech programmes running in a Private University in NCR
Prof. Rachna Joshi Prof. Pankaj Khanna Dr Neeti Misra (Physics)	Subject Expert and Paper Setter for PAN India level entrance examinations at National Testing Agency (NTA)

5.11 Ph.D. Awarded/Submitted to the Faculty

Faculty (Department)	Thesis Title and Year	Institution
Dr Bhawna Kaushik (Chemistry)	Design and Fabrication of Visible Light Responsive Zinc based Magnetic Photocatalysts for Effective Heteroarylation, Nitrobenzene Reduction and Degradation of Organic Pollutants. Awarded in February 2023	University of Delhi
Ms Deepika (Commerce)	Political marketing is an Indian context Submitted in March 2023	Delhi School of Economics, University of Delhi

5.12 Faculty Registered for Ph.D. Programme

S. No.	Faculty	Title of thesis	Institution	Month of Registration
1	Ms Sangeeta Relan (Commerce)	Corporate Governance and Gender Diversity	Department of Commerce, Faculty of Commerce and Business, Delhi School of Economics, University of Delhi	January, 2022
2	Ms Anuradha Sarin (Commerce)	Employee behavior, work systems and employer performance-An exploratory study in select organizations	Department of Commerce, Faculty of Commerce and Business, Delhi School of Economics, University of Delhi	September, 2019

3	Ms Poonam Chauhan (Commerce)	An empirical study of the impact of Micro finance systems of SBI on poverty eradication and women empowerment	Mahrishi University of Information Technology	July, 2021
4	Ms Sapna Yadav (Commerce)	Cost and Productivity analysis of good grain crops in Haryana	Mahrishi Dayanand University, Rohtak	March, 2016
5	Mr Dinesh Kumar (Electronics)	Synthesis and Characterization of Polymer nanocomposites thin films and its applications	Department of Electronics, University of Delhi	May, 2019
6	Mr Gaurav Sharma (Mathematics)	Study of some fuzzy game theoretic models	Department of Mathematics, University of Rajasthan	July, 2018
7	Mr Pawan Kumar (Physics)	Synthesis and Characterization of Metal Oxide/Polymer nanocomposite Thin Films	G D Goenka University	March, 2021
8	Mr Gurudutt Rao Ambedkar (Mathematics)	Optimization of Green Inventory	Department of Mathematics, University of Delhi	March, 2021
9	Ms Bhumika Chauhan (Zoology)	Morphological and Molecular studies on Intestinal parasites of freshwater fish, Channa striata (Snakehead Murrel) from Meerut region	Chaudhary Charan Singh University, Meerut	March, 2022
10	Mr Vineet Girdharwal (Zoology)	General Ecology of Spotted Owlet (Athene Brama) in Urban and Wilderness Area of Meerut, Uttar Pradesh, India	Dr Gargi, M.M.M. College CCS University, Meerut	March, 2022

5.13 Faculty Development Programmes/ Refresher Courses Attended by Faculty

Faculty	Name of the Course	Organized by	Duration
Dr Geetika Kalra (Botany)	Advanced Technologies in Life Sciences	CIIDRET, University of Delhi South Campus and DSSEED and Mahatma Hansraj Faculty Development Center	February 06-11, 2023
Prof. Sunita Hooda (Chemistry)	Participated in the five-day online FDP on “Insights on Emerging Research in Chemical Science. (IERCS-2022)”	School of Sciences (Chemistry), National Institute of Technology, Andhra Pradesh.	October 10-14, 2022
Prof. Rashmi Thukral (Chemistry) Prof. Geetu Gambhir (Chemistry)	Safer and Greener Chemistry labs	Center under the PMMMNMTT, Ministry of Education, SGTB Khalsa College, University of Delhi	July 19-25, 2022
Dr Surinder Kaur (Commerce)	One-week Online National FDP on MOOCs and E-Content Development	SGTB Khalsa College, University of Delhi (Online)	May 25-31, 2023
	One week online FDP on Data Analysis using R Software	PGDAV College, University of Delhi (Online)	January 17-23, 2023
	One-week Online National FDP on Development of MOOCs, e-Content and Teacher’s e-Kit in Four Quadrant Format	SGTB Khalsa College, University of Delhi (Online)	December 08-14, 2022
	One-week FDP on “Research Methodology”	Rajdhani College, University of Delhi (Online)	December 08-14, 2022
Dr Surinder Kaur Ms Rupali Pabreja (Commerce)	One Week FDP on International Women’s Day	International School of Business Management, Suresh Gyan Vihar University, Jaipur (Online)	March 08-14 2023
Dr Shalu Mahajan (Commerce)	National FDP on Business Data Analysis Using R Software	Jointly organized by Guru Angad Dev Teaching Learning Centre under the PMMMNMTT, Ministry of Education and Department of Commerce, SGTB Khalsa College, University of Delhi.	April 28-May 04 2023

Mr Ankit Singh (Commerce)	Five-Day national Level FDP on “Cryptocurrency, block Chain & Cyber Security”	Department of Commerce & Department of Computer Science, KMM College of Arts & Science, Thrikkakara.	September 12-16, 2022
	Global entrepreneurship & Management Summit AAROHAN 2023 “Sustainable Ideas for Business in the new Normal”	Student Research & Development Cell-SRDC, Atlas Skilltech University	March 23-29, 2023
Prof. Sharanjit Kaur (Computer Science) Dr Ravneet Kaur Ms Gauri Ghai (Electronics)	Online FDP / Refresher Courses for capacity building towards NEP-2020 based Skill Enhancement Courses, Big Data Analytics (FDP-106)	University of Delhi in collaboration with GAD-TLC, a Centre under PMMMNMTT, Ministry of Education, Government of India.	November 04-11, 2022
Dr Sunita Narang (Computer Science)	“One-week online National FDP on Visual Communications, Photography, Graphic Design & Animation and Digital Film Production”	University of Delhi and GAD TLC, SGTB Khalsa College, University of Delhi under PMMMNMTT, Ministry of Education, Government of India.	November 04-11, 2022
Dr Sunita Narang Ms Gunjan Rani (Computer Science)	One-week online National FDP on “Back-end, Front-end Web design & Development and App development using Flutter”	University of Delhi and GAD TLC, SGTB Khalsa College, University of Delhi under PMMMNMTT, Ministry of Education, Government of India.	October 27 -November 03, 2022
Ms Nishu Singh (Computer Science)	Effective Teaching of Introduction to programming	Indraprastha Institute of Information Technology Delhi (IIITD)	August to December 2022 with a total of 36 hours of engagement
Ms Gunjan Rani (Computer Science)	Effective Teaching of Machine Learning	Indraprastha Institute of Information Technology Delhi (IIITD)	August-December, 2022 (36 hours)
Dr Neeti Misra (Chemistry) Prof. Anju Agrawal Dr Monika Bhattacharya Ms Gauri Ghai Mr Mahesh Kumar (Electronics)	National Refresher Course on “Python: Essentials, Programming and Analytics & Big Data Analytics”	University of Delhi in collaboration with GAD-TLC, a Centre under PMMMNMTT, Ministry of Education, Government of India.	October 27- November 03, 2022

Prof. Amit Garg (Electronics)	One Week FDP on Python Programming for Electronics (Online-Self Paced)	Department of Electronic Science, UDSC and Training and Placement Cell, Maharaja Agrasen College, supported by IEEE EDS Delhi Chapter	September 26-30, 2022
Dr Joita Dhar Rakshit (English)	One Week FDP (Online) on 'Communication, Creative Writing and Personality Development'	University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi	October 27 - November 03, 2022
	One-week online workshop on Bio Statistical Data Analysis and Research Methodology	Science Tech Institute , Lucknow, Uttar Pradesh, India	December 21-27, 2022
Dr Sarita Agarwal Dr Deo Datta Arya Mr Dev Om (Mathematics)	Online National Refresher Course "Basic IT tools, Advanced Spreadsheet Tools and Statistical Software Package with SPSS & Statistics with 'R', Financial Database and Analysis Software"	University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the PMMMNMTT, Ministry of Education, Government of India	October 27-November 11, 2022.
Dr Neeti Goel (Mathematics)	Successfully completed One week Online National FDP on "Statistics with 'R', Financial Database and Analysis Software" with grade A	University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the PMMMNMTT, Ministry of Education, Government of India	November 04-11, 2022
Dr Satya Prakash Yadav (Physics)	Two-week refresher course in Physics	Ramanujan College	July 28-August 11, 2022
Dr Aparna Sharma (Zoology)	UGC approved Short Term Professional Development Programme on 'Implementation of NEP2020 for University and College Teachers'	Indira Gandhi National Open University under PMMMNMTT, Ministry of Education, Government of India	October 27-November 05, 2022
Dr Sweety Shrimali (Zoology)	Professional Development Programme on 'Implementation of NEP 2020 for University and College Teachers'	Indira Gandhi National Open University, New Delhi	September 09-17, 2022

Mr Vineet Girdharwal (Zoology) Dr Shrankhla Ms Bhumika Chauhan (Zoology)	Skill Development for Sustainable Aquaculture	Department of Zoology, University of Delhi	June 19-25, 2023
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5.14 Faculty on Leave/Lien

S. No.	Name, Designation	Department	Period	Nature of Leave
1	Prof. Gagan Dhawan	Biomedical Science	w.e.f. July 26, 2022	On Lien for 2 years
2	Prof. Shallu Sachdeva	Chemistry	November 09, 2022- April 25, 2023	Child Care Leave
3	Dr Manisha Jain	Chemistry	September 01-December 27, 2022	Child Care Leave
4	Prof. Geetu Gambhir	Chemistry	May 12-June 15, 2023	On Earned Leave
5	Ms Sadhna Gupta	Commerce	May 08-June 23, 2023	On Earned Leave
6	Dr Surinder Kaur	Commerce	March 24-August 04, 2022	Child Care Leave
7	Dr Harita Ahuja	Computer Science	June 04- November 11, 2022	Maternity Leave
			December 01, 2022- November 30, 2023	Child Care Leave
8	Prof. Mamta Bhatia	Physics	November 22, 2021- August 21, 2022	Sabbatical Leave
	Dr Priti Goyal	Physics	March 22, 2022 – November 29, 2022	Child Care Leave
9	Prof. Sarita Kumar	Zoology	April 4, 2022 – March 29, 2023 May 09 - July 12, 2023	Sabbatical Leave
10	Prof. Seema Makhija	Zoology	January 16-April 14, 2023	Child Care Leave

5.15 Research Publications by Faculty in Journals, Magazines, National and International Conferences and Seminars

ANNEXURE-I

5.16 Achievements of Non-teaching staff

Training/Workshops Attended/Other Achievements by Non-teaching Staff

S.No.	Name	Training/Workshops Attended
1	Ms Meenu Malhotra Section Officer (Admin) Dr Reetu Mangla (Admin)	Attended the one week national workshop on “Career and Skill Enhancement for Non Teaching Staff” held from September 15-21, 2022, organized by Acharya Narendra Dev College
2	Ms Namrata Arora (Officiating Librarian)	Attended the International Conference on Academic Library organized by Delhi University Library System from April 05-08, 2023 Worked as a resource person and shared valuable knowledge on Library Automation System in the National Workshop on Career and Skill Enhancement for Non-Teaching Staff organized by Acharya Narendra Dev College from September 15-21, 2022.
3	Mr Vinesh Kumar (Biomedical Science)	Resource person & Organising member in the National Workshop on Career and Skill Enhancement for Non-Teaching Staff organized by Acharya Narendra Dev College from September 15-21, 2022.
4	Mr Ram Kumar Singh	- Organizing committee member in the One Day National Conference on "One Earth-One Family-One Future" held by the Department of Commerce, Acharya Narendra Dev College (ANDC), University of Delhi on April 03, 2023. - Trainer for 400 Hrs. Web Developer Course organized under Skill Hub Initiative of Pradhan Mantri Kaushal Vikas Yojana 3.0 ((PMKVY 3.0) scheme and conducted by Acharya Narendra Dev Kaushal Kendra in 2022. - Blogger page 'lilawati mathematical society' (http://lilawatimathematicalsociety.blogspot.com/) has 31,692 page views. - Facebook Page 'IIT JAM Mathematics Problems' (https://www.facebook.com/IITJAM/) has 10,007 followers.
5	Dr Reetu Mangla (Admin) Ms Arunita Chuakiyal (Computer Science)	Participated in the "Webinar on Quillbot" organized by ANDC Library on September 29, 2022.

6	Dr Arunita Chuakiyal (Computer Science)	- Workshop on Revisit Bootcamp 1.1 for V-LAB development at Acharya Narendra Dev College, University of Delhi from January 09-14, 2023. 3rd International Symposium on Ciliate Biology (ISCB-2022) at Acharya Narendra Dev College on November 08, 2022.
7	Mr Bharat Bhushan (Physics) Mr Jayant Saraswat (Biomedical Science)	Won First Prize at Maitreyi Premier League (MPL) 2023, Dr Savita Datta Memorial 3 rd T-20 over cricket tournament from January 20-31, 2023.
8	Mr Mahender Singh Rawat Mr Suresh Rawat Mr Tara Dutt Mr Vinesh Kumar Mr Vikas Singh Rawat Mr Pramod Bhatt Mr Sanjay Sangwan Mr Tarun Sharma Mr Ram Niwas Mr Anil Godiyal Mr Ram Kumar Singh	Organized National workshop on “Skill Enhancement of Non-teaching Staff” at Acharya Narendra Dev College from July 13-20, 2022.

5.17 Scale Upgradation/Appointments of Teaching/ Non-teaching Staff

5.17.1 Teaching staff: Details of promotion of teaching staff from July, 2022-June, 2023

S. No.	Name	Designation	Level	Date of Promotion
1	Prof. Neelu Dheer	Professor	14	April 12, 2023
2	Prof. Shallu Sachdeva	Professor	14	April, 05, 2023
3	Prof. Mamta Bhatia	Professor	14	April 05, 2023
4	Prof. Pooja Bhagat	Professor	14	February 08, 2023
5	Prof. Sada Nand Prasad	Professor	14	November 07, 2022
6	Prof. Chandra Kanta Samal	Professor	14	October 18, 2022

5.17.2 Non-Teaching staff List of MACP cases of non-teaching staff during the period July, 2022 to June, 2023

S. No.	Name (Designation, Department)	MACP	Date
1	Mr Ramesh Chandra (Library Attendant, Library)	MACP	June 06, 2023
2	Mr Satinder Kumar (Library Attendant, Library)	MACP	June 05, 2023
3	Mr Rajinder Singh (Mali, Administration)	MACP	May 05, 2023
4	Mr Intezar (Office Attendant, Administration)	MACP	March 28, 2023

6. *Flagship* *Schemes@ANDC*



6. FLAGSHIP SCHEMES@ANDC

6.1 UNNAT BHARAT ABHIYAN

Project Coordinator: Dr Sunita Jetly (Biomedical Science)

The *Unnat Bharat Abhiyaan's* mission is to facilitate collaboration between higher educational institutions and the rural communities of India in order to identify development obstacles and devise effective solutions that foster sustainable progress. Additionally, it seeks to establish a positive feedback loop connecting society and an all-encompassing academic system. This entails offering knowledge and practical skills for emerging professions, as well as enhancing the capacities of both the public and private sectors in addressing the developmental requirements of rural India.

Acharya Narendra Dev College (ANDC) is among the institutions taking part in the *Unnat Bharat Abhiyan* (UBA) initiative, with the Indian Institute of Technology, Delhi serving as the Regional Coordinating Institute.

6.1.1 Adopted Areas

Under *Unnat Bharat Abhiyan*, ANDC has adopted following five rural areas in South Delhi:

- 1 Govindpuri Slum Area
- 2 Okhla Industrial Area
- 3 Pul Pehladpur
- 4 Tajpur Pahari Badarpur

6.1.2 Activities under *Unnat Bharat Abhiyan*

During the academic session of 2022-23, the following activities were conducted under UBA@ANDC

- On July 06, 2022, in collaboration with the college's Eco Club, '*Paritantra*', UBA@ANDC organized a village visit to Nehru Camp Govindpuri during the *Van Mahotsav* celebration. The UBA@ANDC team raised awareness about the ban on single-use plastics, the *Swachata Abhiyan* (cleanliness campaign), and also organized a plantation drive during the visit.
- On August 15, 2022, the Independence Day, UBA@ANDC commemorated "*Har Ghar Tiranga*," distributing flags to volunteers and college staff. The team, in collaboration with NSS@ANDC, put together a street play (*nukkad natak*) that illustrated the lives of freedom fighters and performed it in the college to honor their sacrifices and contributions to India's independence.
- On October 31, 2022, to mark the occasion of 'National Unity Day' commemorating the birth of *Sardar Vallabhbhai Patel*, UBA@ANDC organized a "Run for Unity" activity. The activity featured plogging, which entails picking up litter while jogging, contributing to the cleanliness of the college campus. During the event, participants chanted slogans and nearby residents were encouraged to maintain clean surroundings. The event concluded with all participants taking a unity pledge, emphasizing the importance of national unity.
- On November 05, 2022, UBA@ANDC organized an awareness rally on the occasion of 'Vigilance Awareness Week' from October 31-November 06, 2022. The theme "Corruption free India for a

developed nation” was dedicated to upholding the values and principles of *Sardar Vallabhbhai Patel*, often referred to as the “Ironman” of India. Members of the society came together for a vigilance walk, where they reflected on the presence of corruption within themselves. This event served to sensitize all the participants, encouraging them to collectively engage in the prevention and combat of corruption while raising public awareness about its existence, causes, severity, and the associated threats.

- Organized a village visit on November 14, 2022 to conduct a survey on cancer awareness in a village in Delhi. The survey served as a means to educate the residents about this life-threatening disease. The event provided valuable insights into the lack of guidance and awareness in villages concerning cancer, highlighting the urgent need for education and information on this subject.
- On January 21-22, 2023, an “intercollege quiz competition” was organized with the theme of ‘Republic Day’. A total of 48 students from different colleges took part in the ‘Republic Day Quiz.’ The quiz was conducted in an online format using Google Meet and consisted of two rounds, namely the Preliminary round and the Final round.
- On March 03, 2023, UBA@ANDC in collaboration with NSS, ANDC and Eco Club ‘*Paritantra*’, conducted an awareness drive about E-waste and its associated hazards. The session began with an interactive discussion that covered topics such as different types of economies, the distinctions between linear and circular economies, various E-waste products, and their impact at various levels. The conversation expanded to include the challenges encountered during E-waste management and the measures taken to embrace sustainable recycling methods. Recycling bins were provided to both students and faculty members, encouraging them to take a step towards responsible E-waste disposal.
- On March 17-18, 2023, *Unnat Bharat Abhiyan* volunteers attended “UNNATT (Unnat Bharat Abhiyan Networking for National Atmanirbhar Technological Intervention) *Mahotsav* & Expo at IIT, Delhi. This initiative aims to highlight knowledge-based solutions that emerge from ongoing collaborations between educational institutions, their students, and faculty members, as well as key stakeholders through village council meetings (*Gram Sabhas*). Its primary goal is to identify real-world challenges at the grassroots level and develop suitable and sustainable solutions. These efforts take place across various regions throughout the country, with the Regional Coordinating Institutes selecting the specific areas of focus among the participating institutions’ interventions in villages.
- On April 20, 2023, UBA@ANDC organized a health awareness session on fatty liver in collaboration with the Institute of Liver and Biliary Sciences. The session commenced with a presentation by Dr Purnima Singh, who shared valuable insights on maintaining a healthy liver.
- On May 09, 2023, volunteers of *Unnat Bharat Abhiyan* accompanied by their convener, Dr Sunita Jetly, participated in a thalassemia screening event at Sir Ganga Ram Hospital. This event was organized on the occasion of World Thalassemia Day by the Department of Pediatrics in collaboration with Thalassemics India. The event was held at the Working Women Hospital’s auditorium. The point of care testing equipment first made in India was launched at the function.
- UBA@ANDC in collaboration with NSS, ANDC and Eco Club ‘*Paritantra*’ organize a food drive every Thursday of the week to assist individuals in need across various areas in Noida city. They offer assistance to individuals dealing with difficult situations. The students make an effort to connect with those living in makeshift shelters near the construction zones. The food they provide brings joy to the

children and gives them the opportunity to have a peaceful and satisfying meal.

6.2 DBT STAR COLLEGE SCHEME

Coordinator: Prof. Ravi Toteja (Officiating Principal)

Co-Coordinator: Dr Archna Pandey (Department of Biomedical Science)

Department Coordinators: Dr Archna Pandey (Department of Biomedical Science), Dr Rashmi Sharma (Department of Botany), Prof. Sunita Hooda (Department of Chemistry), Prof. CK Samal (Department of Computer Science), Dr Ravneet Kaur (Department of Electronics), Prof. Arijit Chowdhuri (Department of Physics), Prof. Seema Makhija (Department of Zoology)

Department of Biotechnology (DBT) has recommended support under the strengthening component of the Star College Scheme to seven departments (Biomedical Science, Botany, Chemistry, Electronics, Physics, Zoology and Computer Science) of the College in 2017. Under the strengthening component of the Star College Scheme, DBT has provided a one-time grant of Rs. 5.00 lakhs and Rs. 2.00 lakhs recurring grant for a period of 3 years to each department. College was granted STAR STATUS after the 8th Task Force Meeting held from August 25-26, 2020. The Task Force after reviewing the work done by the college recommended awarding the Star Status to the participating departments of the college with one-time non-recurring grant of Rs. 15.00 lakhs (per department) and recurring grant of Rs. 5.00 lakhs per year per department along with contingency of Rs 1.00 lakhs per year and travel grant of Rs 2.00 lakhs per year for a period of three years. The college has been thus upgraded to Star Status and the financial support by DBT is extended for another 3 years i.e. from August 2021. An advisory committee meeting was held on April 27, 2022 in hybrid mode. The advisory committee members appreciated the work done by the College under DBT Star Status scheme and following recommendations were suggested:

- To carry out work which is mandated by National Education Policy (NEP) and to evaluate the progress w.r.t. to any new parameter mandated in NEP.
- To publish research papers in SCI indexed journals.
- To publish the papers of conferences in Journal of good repute.
- To work on outreach activities.
- To organize more workshops for non-teaching staff.
- To mentor non Star colleges for applying for DBT Star College Scheme.
- To have industry-academia collaboration.
- To promote skill enhancement courses.
- To encourage faculty for attending FDPs for enhancing knowledge.
- Faculties should be encouraged to apply for extra mural grants.
- To do more inter-departmental activities and student projects in the college.
- To involve eminent scientists from research institutes for skill enhancement of students and faculty

This year, following the recommendations of DBT, College has developed Skill Centres for skill enhancement of all its stakeholders i.e. faculty, lab manpower and students. College has developed Sericulture Skill Center, Mushroom Research and Skill Development Centre (MRSDC), Zebrafish Culture Facility and Virtual Labs. The development of Skill Centers have given an opportunity to organize National Level Skill Enhancement workshops for Faculty, Non-Teaching and UG students.

These centers have the potential to significantly enhance students' capabilities, preparing them for success in their selected domains and the professional realm. Moving forward, these skill centers will open avenues for students to engage in internships, cooperative programs, and industry projects, enabling them to acquire practical experience.

6.2.1 Skill Development Centres @ANDC

6.2.1.1 Sericulture Skill development Centre

Co-ordinators: Prof. Seema Makhija, Mr Sanjay Vohra

Given the promising employment and entrepreneurship opportunities in the sericulture industry, Acharya Narendra Dev College has established a Skill Development Centre in Sericulture. The primary goal is to provide students with comprehensive skills and knowledge in sericulture techniques. An additional course focusing on Sericulture will be introduced for undergraduate students, and a job-oriented program will be offered to unemployed graduates. This training aims to equip students to pursue a career in sericulture, enabling them to establish their own sericulture farms or silk production units. Moreover, it opens avenues for potential employment in other sericulture institutes or textile industries associated with silk.

The center aims to offer extensive expertise in sericulture skills and methodologies, coupled with hands-on experience in breeding, rearing, harvesting cocoons, and post-cocoon processing. Establishing partnerships with industry stakeholders, local silk producers, and research institutes in the relevant domain will ensure students gain practical exposure. The center will provide comprehensive training to both students and faculty in every facet of sericulture. This training will enable students to comprehend the biological aspects of silkworms and their nutritional needs to produce high-quality silk.

Major Objectives:

The Skill Development Center for Sericulture aims to develop qualified professional manpower in Silk and Sericulture sector. Therefore, the course focuses on training and providing expert human resource to silk industry.

The SDC has following objectives:

- a. To train the students in techniques of silk production
- b. Recognize various species of silk moths in India, and Exotic and indigenous races.
- c. To give knowledge about mulberry cultivation, silkworm Rearing techniques to the students.
- d. To develop human resource empowered to handle the sericulture units/ corporate sector.
- e. To create awareness among youth about the opportunities and employment in Sericulture.
- f. To increase the employability.
- g. To inculcate the entrepreneurship and capacity building among the students.
- h. To train the people from poor economic background.

6.2.1.2 Mushroom Research and Skill Development Centre (MRSDC)

Coordinators: Dr Anupama Shukla, Dr Anita Narang, Dr Vineet Kumar Singh, Dr Sumit Sahni

The Mushroom Research and Skill Development Center (MRSDC) at Acharya Narendra Dev College

was established on March 08, 2022 within the Department of Botany, operating under the DBT-STAR status scheme. Its primary objective is to offer a mushroom culture facility to students enrolled in the SEC course focused on Mushroom Cultivation Technologies. Apart from imparting skills related to cultivating diverse mushroom varieties, MRSDC has expanded its role to encompass a wide array of activities. These include engaging in research, ensuring high-quality spawn production, conducting outreach programs, delivering training sessions, and extending its services to dispel prevalent myths surrounding mushroom cultivation and consumption. Mushroom technology is hailed as an environmentally friendly approach with the potential to address various societal and environmental challenges, such as air pollution, malnutrition, unemployment, and promoting women empowerment. The major activities conducted at MRSDC in year 2022-2023 are:

1. **Maintaining germplasm:** Starting with cultivation of single variety (Blue oysters) using borrowed spawns to establishing and maintaining the pure culture of more than 10 different mushroom varieties within a single year is really an achievement. MRSDC is now maintaining the pure cultures of *Pleurotus eryngii*, *P. florida*, *P. ostreatus*, *Agaricus bisporus*, Shiitake, Portobello, *Calocybe indica*, blue oyster, yellow oyster and *Ganoderma* sp.
2. **Spawn Preparation:** MRSDC is also involved in standardizing the protocols for spawn preparation of the species it is maintaining. Till now, it is preparing and maintaining 500 gm commercial bags for spawns for 5 species namely blue oysters, yellow oysters, button mushroom, shiitake and portobello mushrooms which are readily available.
3. **Mushroom cultivation:** As common routine different mushrooms are grown on different sustainably available substrates.
4. **Training and Outreach activities:** Within a year, more than 150 students have been trained in mushroom cultivating techniques where they learnt to grow different mushrooms in different seasons and know-how of growing and cultivate major mushrooms on minimal and locally available material, environmental conditions etc.
5. **Research:** In research domain, MRSDC is extensively working on screening different inexpensive substrate available locally and easily which can be employed in growing mushrooms. The focus is on standardizing the methods and technologies to grow mushrooms on lignocellulosic material available in the college premises and developing the easiest protocol for each of the substrate. Besides, we are also interested in utilizing the spent mushroom substrate and enhance its market value. For this we have started working on extraction and purification of lignin degrading enzymes (laccase) from the spent mushroom substrate and still utilizing the SMS in production of packaging material as substitute of thermocol and plastic packaging.

Accolades to MRSDC:

The students who worked diligently in MRSDC in various research projects presented their work as Oral or as poster at various International and National platforms like conferences, seminars etc. and won prizes too. The few examples are:

1. Vridhi Singh and Mohd. Afham: Best Oral presentation in the ICSSR sponsored International Seminar on 'Technology for Environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities in Society and Rural Environment', organized by Sri Aurobindo College, University of Delhi on March 16-17, 2023.
2. Subhanshu Krishna: First Prize in Paper presentation at the Samara' 23 the Annual Fest organized by Bloom-The botanical society of Ramjas College, University of Delhi
3. Subhanshu Krishna, Mohd. Afham and Vridhi Singh: First prize in Botanophily, the paper presentation competition at 'Inflorescence' 2023 organized by Sanjeevani, the botanical society of Hindu College, University of Delhi on April 05, 2023.

6.2.1.3 Establishment of Zebrafish (*Danio rerio*) Culture Lab

Convenor: Dr Monica Misra; Co-Convenor: Ms Bhumika Chauhan

मत्स्य Lab - Zebrafish Culture facility, established at Acharya Narendra Dev College in January 2022 through the support of the DBT Star Scheme, aims to inspire and engage budding scientists in research pursuits. It provides a hands-on experience in laboratory practices, delving into the captivating realm of live animal research and nurturing a more empathetic approach towards our environment and its creatures. Notably, we stand as the second college within the University of Delhi to initiate the development of a Zebrafish lab. Presently, the facility is dynamically managed by undergraduate students deeply engrossed in their research projects. The lab was inaugurated by Ms Atishi Singh, Minister of Education of Delhi in April 2022.

The College is in the process of Registration of Internal Animal Ethical Committee (IAEC). Once approved by the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Govt. of India, the breeding of fishes and study of various life stages and behavioural patterns will be done to establish patterns in the fish and its resemblance to humans.

The research aim of the laboratory is to inform action, gather evidence for theories, contribute to developmental biology and knowledge in the field of Zebrafish study, aiming to observe behavioral changes and reproductive cycle of zebrafish in a controlled environment.

UG Research Projects Conducted

- To study the effects of ethanol exposure on different developmental stages of Zebrafish.
- To investigate the effects of different diets on the growth and development of Zebrafish.
- Establishment of the culture and observe their growth 120 hours post-fertilization.

Outreach Workshop: One Day Inter-College Workshop

Organised Intercollege workshop for students from different colleges of the University of Delhi attended the workshop. The zebrafish workshop is a vital platform for students. Its' goal is to impart essential knowledge and skills related to zebrafish as a model organism. Participants will learn zebrafish husbandry, genetics and techniques enabling them to build interest for scientific research in zebrafish.

Objectives and learning Goals

- Introduce zebrafish as a model organism.
- Teach zebrafish handling and care skills.
- Provide overall hands-on training.
- Familiarize participants with experimental techniques.
- Inspire participants to explore zebrafish research.

Following Topics were discussed during the workshop:

- Developmental Stages of Zebrafish
- Aquarium Keeping
- Types of feeds
- Egg Water Preparation
- Instrumentation
- Hands-on session on setting up of breeding units

6.2.1.4 Virtual lab at ANDC (V-Lab@ANDC)

Coordinator: Prof. Seema Makhija (Zoology), Dr Sumit Sahni and Dr Vineet Singh (Botany)

Conveners: Dr Sanjeeta Rani (Physics), Prof. Sharanjit Kaur (Computer Science), Dr Anita Narang

(Botany), Dr Neeti Mishra (Chemistry)

Project Leads: Mr Vaibhav Thapliyal, B.Sc (H) Physics III Year

Acharya Narendra Dev College pioneered the concept of Virtual Lab (V-Lab), aiming to grant undergraduate Science students remote access to various labs via the internet. This initiative marked the college as the trailblazer in implementing V-Lab within the University of Delhi.

The Virtual Lab empowers students to comprehend, learn, and conduct practical experiments remotely with just a click. It encompasses a comprehensive Learning Management System (LMS) that offers a spectrum of learning resources, including supplementary web materials, video lectures, animated demonstrations, and self-assessment tools. The platform hosts web-enabled experiments designed for remote operation and observation, stimulating curiosity and fostering innovation among students. This approach aids in learning both fundamental and advanced concepts through remote experimentation.

The course design for various labs and experiments available on V-Lab@ANDC is forward-thinking, adopting a four-quadrant model for e-content, aligned with the principles of the National Education Policy (NEP)-2020. The V-Lab@ANDC website is curated and managed by students themselves, covering four domains: Biological Science, Chemical Science, Electronics, and Physical Science, encompassing seven departments: Biomedical Science, Botany, Chemistry, Computer Science, Electronics, Physics, and Zoology.

While the inception of V-Lab@ANDC initially aimed to address challenges stemming from the COVID-19 pandemic in the teaching and learning process, its scope has since broadened. Students now have the flexibility to conduct experiments around the clock, utilizing sophisticated and costly instruments multiple times, generating measured data for several experiments, all while optimizing resource utilization. Through V-Lab@ANDC, the college upholds its ethos of 'Preparing for the future' by venturing 'Beyond the classroom' and extending the traditional boundaries of practical labs.

The lab is developed under four domains:

Biological Science: Developed by the Department of Biomedical Science, Botany and Zoology

Chemistry: Developed by the Department of Chemistry

Computer Science: Developed by the Department of Computer Science

Physical Science: Developed by the Department of Electronics and Physics

So far, 37 Experiments from different domains are uploaded on V Lab linked to college website. (<https://www.vlab.andcollege.du.ac.in/>).

6.2.1.4.1 Bootcamps for V-Lab Development

This year two Bootcamps were organized:

6.2.1.4.1.1 One-week Revisit Bootcamp 1.1 for V-Lab Development

Conveners: Prof. Sharanjit Kaur, Dr Sunita Narang Prof. Seema Makhija, Prof. Pooja Bhagat, Dr Sumit Sahni and Dr Vineet K Singh

Date: January 09-14, 2023

In collaboration with V-Lab@ANDC, the Computer Science Department, under the DBT Star College Scheme, organized 'Revisit Bootcamp 1.1 for V-Lab Development', a week-long workshop from January 09-14, 2023. Targeted at first and second-year students across all streams of the college, the bootcamp primarily engaged students interested in joining the V-Lab team and contributing to the development

of V-labs for their respective courses.

The workshop was led by resource persons Mr Shahnawaz Khan and Mr Pankaj Sahu, both final year students pursuing B.Sc. (H) Computer Science and B.Sc. (Prog.) Physical Science with Computer Science, respectively, at the college. The objective of the workshop was to acquaint students with the fundamental building blocks of web development, with a focus on V-Lab Development.

The resource persons introduced the basic attributes of HTML and CSS, followed by more advanced features of these languages. They also delved into selectors, animations, and introduced participants to the basics of JavaScript. Each day included a practice session for students to reinforce the topics covered. A session was dedicated to addressing queries and evaluating the projects assigned at the beginning of the workshop.

6.2.1.4.1.2 Five day Bootcamp on ‘V-Lab Development 2.2 and Bootcamp on ‘V-Lab Development (Building Blocks of Simulator)’

Conveners: Prof. Seema Makhija, Prof. Sharanjit Kaur, Prof. Pooja Bhagat. Dr Sumit Sahni and Dr Vineet K Singh

Date: April 24-28, 2023

Number of Participants: 21

Organized a five day Bootcamp on ‘V-Lab Development 2.2’ and ‘V-Lab Development (Building Blocks of Simulator)’ under the aegis of DBT STAR College Scheme from April 24-28, 2023. This workshop was organized for the First and Second year students of all streams of the college. The resource persons were Mr Vaibhav Thapliyal, Mr Shahnawaz Khan and Mr Pankaj Sahu who were final year students of B.Sc. (H) Physics, B.Sc. (H) Computer Science and B.Sc. (Prog.) Physical Science with Computer Science respectively from the college. Mr Vibhor also addressed the participants and illuminated the students about how Animation videos related to the experiment could be added to the college virtual lab youtube channel and its’ link should be embedded to the webpage.

Day 1: Introduction to web development. Foundation of web dev was introduced to the students like HTML, CSS and JS. What is the significance of using these functionalities. How to link these files in HTML. How the web works behind the scene. Introduction to web development. Classes and id, tags, types of linking was deeply discussed. In javascript queryselectors, eventlistener, functions were explained with live project of creating a form which will store user’s data in local storage of the system which can be fetched anytime.

Day 2: Classes and id’s, tags, types of linking was deeply discussed. In javascript- queryselectors, eventlisteners, functions were explained with live project by creating a form which will store user’s data in local storage of the system which can be fetched anytime. How simulators work in Virtual lab was explained. Introduction to Figma was given with live project of Malus Law. Participants designed the apparatus required to perform the experiment of Malus law.

Day 3: Uses of objects and Arrays in programming was in depth explained with their properties like foreach, map, slice, splice etc. Introduction to data structure and algorithm was also discussed over the workshop. Participants created the web page for simulation which have the functionality of full screen icon. When clicked user will enter into full screen mode, then all the apparatus related to the experiment will be displayed.

Day 4: Hands on tutorial in figma was introduced with live project of car racing game. Participants designed the theme of the game in figma then used it in building the game using JS. Simulated the setup based on the requirement of experiment using Javascript. Hence Malus law experiment was

created in virtual lab.

Day 5: The Workshop ended with the vote of thanks by the Principal. All participating students in the workshop will be given some experiments which can be of any subject. Students have to complete it within the stipulated time and have to give the updates related to the allotted experiment to the teacher every week.

6.2.1.4.2 Names of students involved in creating Virtual Lab

S. No.	Name	Course	Project	Mentors	Link
1	Aliya	B.Sc. (P) Physical Science with Computer Science II Year	Data Frame -1	Prof. Sharanjit Kaur	https://www.vlab.andcollege.edu.ac.in/csSc/crud_df/addupdatedelete.html
	Vaibhav Thapliyal	B.Sc. (H) Physics III Year			
2	Sakshi Garg	B.Sc. (P) Physical Science with Computer Science II Year	Data Frame-2	Prof. Sharanjit Kaur	https://www.vlab.andcollege.edu.ac.in/csSc/harsh_df/dataFrame.html
	Vaibhav Thapliyal	B.Sc. (H) Physics III Year			
3	Vivek Sharma	B.Sc. (P) Physical Science with Computer Science II Year	Data Frame-1	Prof. Sharanjit Kaur	https://www.vlab.andcollege.edu.ac.in/csSc/crud_df/addupdatedelete.html
	Vaibhav Thapliyal	B.Sc (H) Physics III Year			

4	Pankaj Sahu	B.Sc. (P) Physical Science with Computer Science II Year	Data Frame-3, Data Frame-2	Prof. Sharanjit Kaur	https://www.vlab.andcollege.du.ac.in/csSc/harsh_df/dataFrame.html
	Vaibhav Thapliyal	B.Sc. (H) Physics III Year			https://www.vlab.andcollege.du.ac.in/csSc/crud_df/addupdatedelete.html
5	Nilesh Pandey	B.Sc. (H) Computer Science II Year	Bubble Sorting	Prof. Sharanjit Kaur	https://www.vlab.andcollege.du.ac.in/csSc/bubble_sort/bubble_sorting.html
	Vaibhav Thapliyal	B.Sc. (H) Physics III Year			
6	Shahnwaz Khan	B.Sc. (H) Computer Science II Year	Prime Number, Bubble Sorting	Prof. Sharanjit Kaur	https://www.vlab.andcollege.du.ac.in/csSc/p_num/dataFrame.html
	Vaibhav Thapliyal	B.Sc. (H) Physics III Year			

7	Harsh Bamotra Vaibhav Thapliyal	B.Sc. (H) Computer Science II Year B.Sc. (H) Physics III Year	Prime Number	Prof. Sharanjit Kaur	https://www.vlab.andcollege.edu.ac.in/csSc/p_num/dataFrame.html
8	Sushant Sharma Vaibhav Thapliyal	B.Sc. (P) Physical Science with Computer Science II Year B.Sc. (H) Physics III Year	Data Frame-1	Prof. Sharanjit Kaur	https://www.vlab.andcollege.edu.ac.in/csSc/bubble_sort/bubble_sorting.html
9	Vaibhav Thapliyal	B.Sc. (H) Physics, III Year	Verification of Palindrome	Dr Sanjeeta Rani	https://www.vlab.andcollege.edu.ac.in/phySc/compPhysics/palindrome/palindrome.html
10	Vaibhav Thapliyal	B.Sc. (H) Physics, III Year	Find the LCM of two given numbers	Dr Sanjeeta Rani	https://www.vlab.andcollege.edu.ac.in/phySc/compPhysics/lcm/lcm.html

11	Vaibhav Thapliyal	B.Sc. (H) Physics, III Year	Generate Fabonacci series	Dr Sanjeeta Rani	https://www.vlab.andcollege.edu.ac.in/phySc/compPhysics/fibonacci/fibonacci.html	
12	Rajkumar Jain	B.Sc. (H) Zoology, III Year	Enzymatic Activity of Trypsin	Dr Aparna Sharma	https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/trypsin/trypsin.html	
	Basab			Prof. Ravi Toteja		
	Vaibhav Thapliyal	B.Sc. (H) Physics, III Year		Prof. Seema Makhija		
13	Harshita Khushwaha	B.Sc. (H) Zoology II Year	Cytochemical demonstration for the presence of DNA in ciliates	Prof. Ravi Toteja	https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/dna/dna.html	
	Khushboo					
	Sheelam Saroj			Prof. Seema Makhija		
	Basab	B.Sc. (H) Physics, III Year				
	Vaibhav Thapliyal					

14	Harshita Khushwaha	B.Sc. (H) Zoology, II Year	Cytochemical demonstration for the presence of Proteins by Mercurobromophenol Blue	Prof. Ravi Toteja	https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/mbb/mbb.html
	Khushboo			Prof. Seema Makhija	
	Sheelam Saroj				
	Basab				
	Vaibhav Thapliyal	B.Sc. (H) Physics, III Year			
15	Harshita Khushwaha	B.Sc. (H) Zoology, II Year	Cytochemical demonstration for the presence of Mucopolysaccharides by PAS	Prof. Ravi Toteja	https://www.vlab.andcollege.edu.ac.in/bioSc/zoology/pas/pas.html
	Khushboo			Prof. Seema Makhija	
	Sheelam Saroj				
	Vaibhav Thapliyal	B.Sc. (H) Physics, III Year			

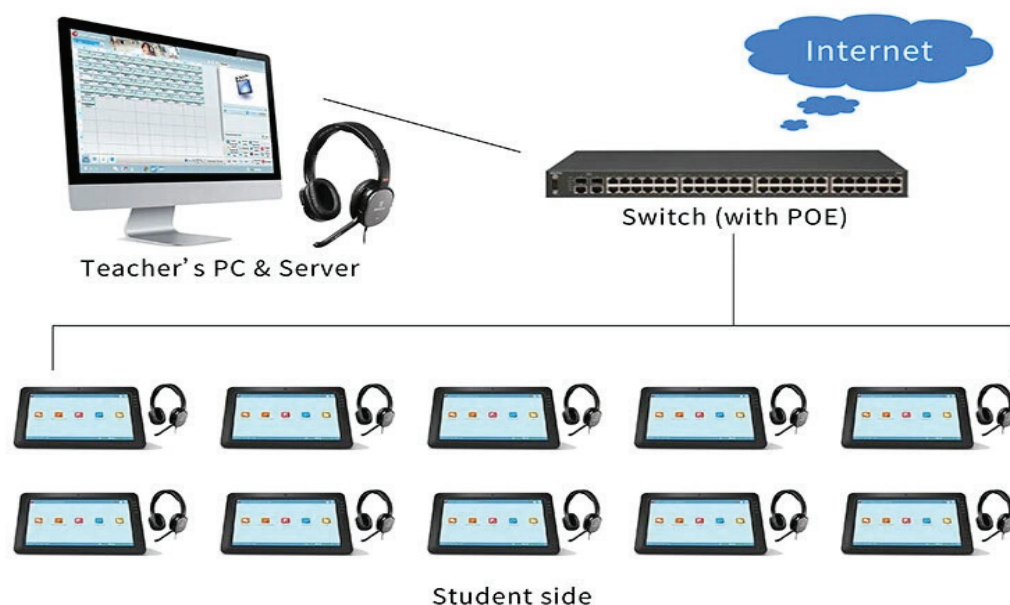
16	Ankush Rana	B.Sc. (H) Electronics II Year	Designing of a First Order Low-pass and High-pass filter using op-amp	Dr Ravneet Kaur Ms. Gauri Ghai	https://www.vlab.andcollege. du.ac.in/phySc/ electronics/ low_pass_filter/ low_pass_filter. html
	Vishal Gupta	B.Sc. (H) Electronics I Year			
	Vaibhav Thapliyal	B.Sc. (H) Physics III Year			
17	Anubhav Singh and Alok Singh	B.Sc. (H) Electronics II Year	I-V- characteristics of Zener Diode	Dr Ravneet Kaur Ms. Gauri Ghai	https://www.vlab.andcollege. du.ac.in/phySc/ electronics/ zener_diode/ zener.html
	Vaibhav Thapliyal	B.Sc. (H) Physics III Year			

6.2.2 New Initiatives under DBT STAR college scheme

6.2.2.1 Language Lab@ANDC

In alignment with ANDC's dedication to make students future ready, a language laboratory has been recently established within the college premises to enhance language learning efficiency. The lab is fully equipped with vital elements such as a sound proof hearing booth, a console, and advanced digital language lab software to facilitate real-time interaction between educators and students. The lab accommodates 20 systems, each installed with the Orell Talk software, available in both English and Hindi

Components of Language Lab



The laboratory provides a platform for students to engage in speech exercises, evaluate their pronunciation against model examples, record and review their own speech, and self-assess language proficiency. This environment supports learners in enhancing their language comprehension, allowing them to learn at their individual pace.

While the primary use of the lab is for practical sessions of the Skill Enhancement Courses (SEC) offered by the Department of English, any student within the college aiming to enhance their communication abilities can make use of it. Given that the software aligns with the format of international English language proficiency tests like IELTS and TOEFL, students can utilize the lab for exam preparation. Additionally, the college regularly organizes practical workshops focusing on the fundamental language skills—listening, speaking, reading, and writing for students. The language lab serves as a valuable resource for conducting these workshops.

6.2.2.2 Value Addition Certificate Courses by Acharya Narendra Dev Kaushal Kendra

Nodal Officer: Prof. Pooja Bhagat

The college aims to provide technical and entrepreneur skills to students and make them future ready. This will empower them to become job providers and not just the job seekers in future. With a vision to prepare skilled youth, the college is running 'Kaushal Kendra' which offers value added courses in different fields, not only to the undergraduate students enrolled in the college, but also to other aspiring students. Following Courses were conducted this year:

S. No.	Name of the Course	Period	Hours	No of Students attended the Course
1	Web Developer	March 16-November 21, 2022	400	19

2	Research Methodology for Physical Science students	August 2022	30-November 19,	60	21
3	Tools and Techniques in Biological Sciences for Life Science students	August 2022	29-November 11,	60	52
4	Basics of Research Methodology for Physical Science and Life Science students	January 05-June 17, 2023		40	18

6.2.2.2.1 Web Developer: The 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. To mainstream vocational education, sharing of infrastructure and developing well-defined pathways for students to continue with their chosen academic-vocational pursuits, an initiative for creation of Skill Hubs across the education and skill ecosystem has been proposed to actualize the intent on the ground. The 'Skill Hub Initiative' under Pradhan Mantri Kaushal Vikas Yojana 3.0 (PMKVY 3.0) scheme focuses on the introduction of skill training programs in the education ecosystems. Skill Hubs are nodal skill centers identified to provide skill development and vocational training opportunities to target population segments from school dropouts and out-of-education candidates. Acharya Narendra Dev Kaushal Kendra, SkillHub@ANDC is selected as a Training Provider for Web Developer Course. A batch of 19 students had completed the course in 2022.

6.2.2.2.2 Research Methodology

Course Convenors

Prof. Pooja Bhagat

Prof. Seema Makhija

The college conducted an add-on course namely 'Research Methodology' for Physical Science students in the college. The course was designed and taught by ten Prime Minister Research Fellows (PMRF) of IIT Delhi and was taught by six research scholars from the Department of Biochemical Engineering. The classes were held on Tuesdays, Thursdays and Fridays from 04:00-06:00 PM in the seminar room. Second- and third-year undergraduates from Chemistry and Physical Science attended the course. The aim of the course was to teach students and aid them in developing their capacity to carry out useful research. The course inspired them to consider a career in research.

In the curriculum, students of Physical Sciences learned:-

1. Theoretical and practical demonstration of instrumentation techniques that are critical part of industry and academia. (GC, HPLC, Chromatographic separation techniques etc.)
2. Learn the essentials of software and search engine such as ChemDraw, Gaussian, Scifinder etc.
3. Research Methodology- learning how to read scientific papers and design your own reactions.
4. Practical demonstration wherever required.

Main Attractions of the course were:-

- Training was provided by PMRF (Prime Minister's Research Fellow) scholars from IIT Delhi.
- No fee was charged for this course.
- Certificate was provided after successful completion of the course.
- The successful candidates visited IIT Delhi to learn new techniques.

6.2.2.2.3 Tools and Techniques in Biological Sciences

Course Conveners

Prof. Pooja Bhagat

Prof. Seema Makhija

The college conducted an add-on courses namely 'Tools and Techniques in Biological Sciences' for Life Science students in the college. The course was formulated to introduce undergraduate students to concepts and approaches used in research in biological sciences. It was taught by six research scholars from the Department of Biochemical Engineering and Biotechnology (DBEB), IIT Delhi, as a part of their Teaching Assistantship requirement for the Prime Minister Research Fellowship (PMRF). The classes were conducted on Monday, Wednesday, and Friday 4:00 – 6:00 PM in the Seminar Hall. Second- and third-year undergraduates from Life Sciences, Zoology, and Biomedical Sciences attended the course.

In this curriculum, students of Life Science learned:-

1. Good laboratory practices
2. Cell culture and Analytical techniques
3. Bioprocess technology
4. Genetic Engineering
5. Reading-writing research papers, resource searching
6. Introduction to Bioinformatics & Functional Genomics
7. Nanobiotechnology
8. Basics of Cancer biology
9. Waste treatment technology
10. Practical demonstration wherever required

Main Attractions of the course were:-

- Training was given by PMRF (Prime Ministers' Research Fellow) scholars from IIT Delhi.
- No fee was charged for this course.
- Certificate was provided after successful completion of the course.

6.2.2.2.4 Basics of Research Methodology

Course Conveners

Prof. Pooja Bhagat

Prof. Seema Makhija

The college conducted a certificate course namely 'Basics of Research Methodology' for Physical Science and Life Science students of the college. The course was designed by Prime Minister Research Fellows (PMRF) of IIT Delhi. It was a 40 Hrs certificate course. The purpose of the course was to teach the students beyond the classroom and help them to increase their potential to conduct valuable research. This course motivated them about the potential career in research. First-year undergraduates from Chemistry, Physical Sciences, Life Sciences and Biomedical Sciences attended the course.

The course was taught by 10 PMRF of IIT Delhi for 2 hours on Saturdays. In this curriculum, students learned-

1. Essential Research related software and search engine
2. How to plan any General Reaction (Organic and Inorganic)
3. Electrochemistry (Theory + Practical Experience)
4. General Text book Name Reaction and their Practical Experiment (Synthesis)

Main Attractions were:-

- Training was given by PMRF (Prime Minister's Research Fellow) scholars from IIT Delhi.
- No fee was charged for this course.
- Certificate was provided after successful completion of the course.
- The successful candidate attended one day workshop in IIT Delhi to learn new techniques.

6.2.3 International Conferences

This year College organized Two International Conferences by the grant received from the Department of Biotechnology (DBT). Such support plays a pivotal role in encouraging academic interactions, sharing knowledge, and promoting collaborative research initiatives. Organizing international conferences holds numerous advantages for both ANDC and the wider academic fraternity. In the current year, ANDC has successfully coordinated two international e-conferences, underscoring the impact of this support.

6.2.3.1 International Symposium on Ciliate Biology (ISCB 2022)

Organizers: INSCR, ANDC and Maitreyi College

Date: November 08, 2022

Number of Participants: 54

As part of the Centenary Celebrations, Acharya Narendra Dev College and Maitreyi College collaborated with INSCR (Indian Network for Soil Contamination Research) to host the 3rd International Symposium on Ciliate Biology 2022 (ISCB 2022) on November 08, 2022. Thirteen highly regarded international speakers presented their research findings, and a plenary talk was delivered by Professor Gaytha, an esteemed expert in Environment Policy at Bryant University, Rhode Island, USA. Notable figures like Prof. Cristina Micelli, Prof. Alexey, Prof. Fokin, and Dr Alan Warren were among the eminent speakers. The event also provided a platform for undergraduate and postgraduate students, as well as research scholars to showcase their research work through oral and poster presentations. A significant highlight of the conference was the conferral of the Lifetime Achievement Award upon Prof. G.R. Sapra, recognizing his exceptional contributions to Ciliate Biology. The symposium encompassed various themes such as Biodiversity, Ecology, Evolution, Systematics, Genomics, Epigenetics, DNA Barcoding, Proteomics, and Bacterial Symbionts in Ciliates. Registration for the symposium was open to undergraduates, postgraduates, research scholars, post-doctoral fellows, and faculty members, attracting over 50 participants from diverse national and international academic institutions. To encourage undergraduate student participation registration costs were subsidized. Students or emerging scholars accounted for approximately one-quarter of the participants.

The symposium aims to achieve the following

- To provide a platform for the ciliate interest group to exchange information, present the latest research findings, and establish collaborations
- To enthuse a large number of Indian and foreign undergraduate and postgraduate students to

- take up ciliated protists as their preferred research area
- To provide networking opportunities for students wishing to take up doctoral or postdoctoral research on ciliates

Prof. Ravi Toteja, officiating Principal of the College concluded the 3rd International Symposium on Ciliate Biology by thanking the delegates and the presenters for their participation. He also thanked the organizing committee for the successful completion of the Symposium.

6.2.3.1.1 Keynote and Invited Speakers:

Sr. No.	Name of Speaker	Affiliation	Title of Talk
1	Prof. Cristina Miceli	School of Biosciences and Veterinary Medicine University of Camerino via Gentile III da Varano 62032 Camerino (MC) Italy	Ciliate as sensors for environmental stresses
2	Prof. Bettina Sonntag	University of Innsbruck Research Department for Limnology, Mondsee, Austria	Identification of Planktonic Freshwater Ciliates and their Key Roles in Aquatic Environments
3	Prof. Alexey Potekhin	Department of Microbiology, Faculty of Biology, St Petersburg	Diversity and Dynamics of Microbiomes associated with Freshwater Ciliates
4	Prof. Sergey Fokin	Department of Biology, Università, di Pisa, UNIPI	Ciliates and its symbionts from ecological point of view
5	Prof. Gaytha Langlois	Professor of Environmental Policy, Bryant University, Rhode Island, USA	Ciliates in extreme environments

6	Prof. Zhongtang Yu	Professor, College of Food, Agricultural, and Environmental Sciences OSU Center of Microbiome Science Department of Animal Sciences 110E 2029 Fyffe Road Columbus, OH 43210-1095	Genomics of Rumen Ciliates
7	Prof. Elena Sabaneyeva	Professor, Saint Petersburg State University	Symbiotic associations in ciliates: problems and perspectives
8	Dr Alan Warren	Natural History Museum Cromwell Road, London SW7 5B, UK.	Protists are for everyone: A personal overview of knowledge dissemination and promoting public awareness.
9	Dr Adriana Vallesi	Associate Professor, University of Camerino, Macerata, Marche, Italy	Pheromone and pheromone genes structure, expression and evolution.
10	Mr Rosaura Mayén Estrada	Universidad Nacional Autónoma de México, Mexico	Symbiotic ciliates of molluscs with emphasis on species from Mexico
11	Dr Valentina Serra	Project Assistant, H2020-MSCA-RISE “NGTax” project, Pisa University	Next Generation Taxonomy: Ciliophora and their bacterial symbionts as a proof of concept” (Acronym: NGTax)

12	Dr Yuanyuan Wang	Post Doctoral Fellow, Laboratory of Protozoology, Institute of Evolution and Marine Biodiversity, Ocean University of China	Semi-conservative transmission of eukaryotic N6-adenine methylation, 6mA
13	Dr Harpreet Kaur	Postdoctoral Fellow Dacks Lab Division of Infectious Disease, Department of Medicine, University of Alberta	Expansion of SM and Qa-SNARE proteins to regulate vesicle fusion in ciliates
14	Dr S.Sripoorna	Postdoctoral Fellow Animal Science Building, Ohio State University, Columbus, Ohio, USA	Bioinformatics analysis of heavy metal (Cadmium and Copper) binding proteins and Cysteine-rich proteins in <i>Tetmemenasp.</i> SeJ-2015 to affirm their roles in heavy metal tolerance

6.2.3.2 7th International Conference of National Soil Contamination and Research (INSCR 2022) Modulating the Environment with Microbes

Organizers: Acharya Narendra Dev College, DU, Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), PG Department of Zoology, Magadh University (MU), Ramjas College (DU), Sri Venkateswara College (DU), Sri Guru Tegh Bahadur Khalsa College (DU), C.M.P. College (AU), Bhaskaracharya College of Applied Sciences, Shivaji College, Miranda House, KIIT Bhubenswar, Devbhoomi, U.K., Kolhan University, Jharkhand, PhiXgen Pvt. Ltd., Gurugram and College of Commerce, Arts & Science, Patna

Date: November 07-11, 2022

Number of Participants: 330

The Indian Network for Soil Contamination Research (INSCR) organized its' 7th Annual International

Conference titled “MODULATING THE ENVIRONMENT WITH MICROBES” from November 07-11, 2022 in online mode. The Conference was organized in association with University of Delhi Colleges, namely, Acharya Narendra Dev College; Bhaskaracharya College of Applied Sciences; Deen Dayal Upadhyaya College; Gargi College; Kirori Mal College; Miranda House; Ramjas College; Shivaji College; Sri Venkateswara College & SGTB Khalsa College ; CMP College, Allahabad; Kolhan University, Jharkhand; KIIT University, Orissa; PG Department of Zoology, Magadh University; SoAS Dev Bhoomi Uttarakhand University, Uttarakhand & Phixgen Pvt. Ltd.

Microbes play diverse roles in agricultural, industrial, clinical, environmental biology and biotechnology which is very significant for the attainment of various Sustainable Development Goals (SDGs). The pandemic COVID-19 brought to forefront the importance of microbial research; be it in microbial genomics, metagenomics, diagnostics or vaccine development. The central theme behind the INSCR 2022 conference was to facilitate understanding, discussions and inter-disciplinary collaborations for the advancement of microbial research and development.

Various thematic sessions were carefully planned to host many renowned international and national speakers who will showcase important scientific advances in different aspects of microbiology and emphasize on the role of microbes in modulating various environments. The sessions were not only one-stop platform for knowing recent advancements but also provided the requisite ‘Food for Thought’ For Future Innovations and Discourse. Special sessions on ‘Microbiology for Science and Society,’ ‘Women in Science’ and first-time being conducted ‘Microbiology in India in the last 75 years’ (to commemorate *Azadi ka Amritmahotsav*) touched upon the societal aspects including the rising need of Microbiology Literacy, understanding the role & contribution of women scientists and a trip down the memory lane highlighting the status & contribution of Microbiology in India.

The major highlight of INSCR-2022 was the support of two well-known International Microbiological Societies, ISME, International Society of Microbial Ecology and FEMS, Federation of European Microbiological Societies. The Editor-in-Chiefs of these two organizations presented in the Pre-conference Workshops on ‘Genomics, Metagenomics and Bioinformatics in Microbial Ecology’ and ‘Art of Scientific Writing and Communication’, on 07-08 November, 2022, respectively. Keeping in mind the exhaustive nature of online conferences, cultural sessions, agar art competition etc. were also planned. All in all, the conference brought together experts from various fields of microbiology on one platform to facilitate bilateral exchange of knowledge, ideas and opinions that can shape the future discourse of microbial research required for the sustainable development.

6.2.3.2.1 List of Presentations by the Students and Faculty Members of ANDC

S. No.	Topic	Presenter/ Authors
1	Microbial Literacy Mission Under International Microbiology Literacy Initiative- South Asia Center: Our Vision, Mission and Efforts	Utkarsh Sood, Princy Hira, Shailly Anand, Sukanya Lal and Rup Lal
2	Women In Science – Past and Present	Shallu Sachdeva
3	What Do We Owe to The Scientists?	Rashmi Sharma, Rama Sisodia
4	Role of Indian Women in Science	Monica Misra

5	Evaluation of Bioactive Compounds from <i>Streptomyces</i> Spp. as an Antifungal Agent against diverse pathogenic fungi	Harsha, Munendra Kumar, Prateek Kumar, RenuSolanki, Monisha Khanna Kapur
6	Microbes As Natural Crusader for Pollutants in Air	Aishwary Kumar Chaturvedi, Mayank Yadav, Arijit Chowdhuri and Charu Khosla Gupta
7	Mushroom Cultivation: A Non-Conventional Approach to Convert College Generate dLignocellulosic Waste into Environmentally Sustainable Products	Vridhi Singh, Shubhanshu Krishna, Mohd Afham, Anita Narang, Anupama Shukla, Manoj Kumar Singh, Vineet Kumar Singh, Sumit Sahni
8	A Novel Architecture of Ultra-Thin Body Silicon on Insulator (UtbSoi) Mosfet for Biomolecular Sensing Application	Gauri Ghai, Sumit Vashista, Anju Agrawal, Ravneet Kaur
9	Blue tooth Beacons: Location Based Geofence for CrowdManagement	Sumit Vashista, Gauri Ghai, Ravneet Kaur, Anju Agrawal
10	Air Pollution Tolerance Index (Apti) – A Tool to Measure Pollution Tolerance in some Native Trees of Delhi.	Sruthi S. Kumar, Jay Kumar Sirmoria, Yash Mangla, Arijit Chowdhuriand Charu Khosla Gupta
11	Bioinformatics Analysis of Heavy Metal (Cadmium and Copper) Binding Proteins and Cysteine-Rich Proteins In <i>Tetmemena</i> sp.Sej-2015 to affirm their Roles in Heavy Metal Tolerance	S. Sripoorna, Jeeva Susan Abraham, Swati Maurya, Sandeep Antil, Jyoti Dagar, Ravi Toteja, Renu Gupta and Seema Makhija
12	Insights into the Hidden Ciliate Diversity of Freshwater Bodies of Delhi by Microscopic and Metabarcoding Approach	Jeeva Susan Abraham, Sripoorna Somasundaram, Swati Maurya, Sandeep Antil, Jyoti Dagar, Ravi Toteja, Renu Gupta and Seema Makhija
13	Phylogenetic Status of An Indian Isolate <i>Colpoda</i> n. Sp. Using Classical andMolecular Methods	Swati Maurya, Sandeep Antil, Jyoti Dagar, Ravi Toteja, Renu Gupta and Seema Makhija

14	Physical-Chemical Analysis and Its Correlation with the Ciliate Diversity of the Yamuna River	Sandeep Antil, Swati Maurya, Jyoti Dagar, Seema Makhija and Ravi Toteja
15	Therapeutic Application of Metabolites in Ciliates	Jyoti Dagar, Swati Maurya, Sandeep Antil, Seema Makhija and Ravi Toteja
16	Use of Machine Learning and Knowledge Representation Techniques to Classify and Organize the Microbial Information of Polluted Water in Delhi	Mayank Singh Pundir, Jeeva Susan Abraham, Sripoorna Somasundaram, Swati Maurya, Seema Makhija, Ravi Toteja and Preeti Marwaha
17	An Investigation into the Bacterial Prey Selection Habits Among Ciliates and Its Implications On Optimizing their Cultivation Strategies in the Laboratory.	Merwin Mammen Mathew, Swati Maurya, Jeeva Susan Abraham, Sripoorna Somasundaram, Sandeep Antil, Jyoti Dagar, Seema Makhija, Ravi Toteja
18	Morphology and Morphogenetic Description of a new ciliate species of <i>Aponotohymena</i> (Ciliophora; Oxytrichidae) from fresh water sample of Delhi, India	Ilmas Naqvi, Renu Gupta, Jeeva Susan Abraham, Seema Makhija, B. Hareramadas and Ravi Toteja
19	Characterization of a Species of <i>Blepharisma</i> from Delhi, India	Renu Gupta, Jeeva Susan Abraham, S. Sripoorna, Anjali Yadav, Sheeba, Bhawna Chuphal, Ranjeeta Bhujabal, Seema Makhija and Ravi Toteja

6.2.4 Establishment of Central Instrumentation Facility with state-of-the-art equipments for Skill Enhancement

Establishing a Central Instrumentation Facility with state-of-the-art equipment for skill enhancement is a commendable initiative. Such a facility would greatly contribute to the development of technical skills, research capabilities, and innovation in various fields.

CIF has the following state of art equipments for cutting edge research at UG level:

PCR Machine with 1 KVA UPS	Non-Refrigerated Centrifuge
Br Biochem Dual Wavelength Bench (UV Transilluminator)	Horizontal Gel Apparatus
Cilika Microscope BT-P	SPR Machine

Atomic Absorption Spectrophotometer with 8 Auto Lamp Turret & Variable Slit Control	Multiparameter
Hp Prodesk 600 G6 Microtower PC (CPU)	Multitech Systems DC Regulated Power Supply.
Set up for Satellite Communication System	Vertical Gel Electrophoresis Unit
Control Labsetup with software and data acquisition	Horizontal Gel Electrophoresis Unit
AI Builder	UV-Vis Spectrophotometer
IoT Builder	3D Printer

6.2.5 Interdisciplinary Projects under DBT STAR College Scheme

The grant received by DBT has helped in enhancing scientific exposure of undergraduate students via participation in various interdisciplinary projects/ routine lab work conducted under DBT-STAR college scheme.

S. No.	Title of the Project	Mentor/s	Name of the Student/s	Course & Semester
1.	Detection of chronic myeloid leukemia in patients through novel techniques	Dr Sunita Jetly Dr Ritu Khosla (Biomedical Science)	Jassi Goyal	B.Sc. (H) Biomedical Science, II Year
2.	Learning the techniques to detect the thalassemia carriers through CBC and mutational analysis through Sanger sequencing	Dr Sunita Jetly Dr Deepshikha (Biomedical Science)	Srishti	B.Sc. (H) Biomedical Science, II Year
			Suravi Bhaya	B.Sc. (H) Biomedical Science, III Year

3.	Genome and transcriptome data Analysis for novel target identification and Characterization	Dr Archna Pandey Dr Rimpy Kaur Chowhan (Biomedical Science)	Hariom Chaudhary	B.Sc. (H) Biomedical Science, I Year
4.	Extraction of Phytochemicals from such as flavonoids and alkaloids and characterization of their Antioxidant and Anti-Inflammatory Properties through in-vitro assays	Dr Archna Pandey Dr Ritu Khosla (Biomedical Science)	Khushi Bhatt, Arpita Singh	B.Sc. (H) Biomedical Science, II Year
5.	Study of Rise in Shingles cases as an aftermath of Covid 19	Dr Archna Pandey Dr Ritu Khosla (Biomedical Science)	Anshika Bansal	B.Sc. (H) Biomedical Science, II Year
6.	Synthesis of silver nanoparticles using environment friendly chemicals	Dr Archna Pandey Dr Ritu Khosla Dr Rajeev Ranjan (Biomedical Science)	Najjam	B.Sc. (H) Biomedical Science, II Year

7.	To synthesize silver nanoparticles and study their stability characteristics	Dr Archna Pandey Dr Ritu Khosla Dr Rajeev Ranjan (Biomedical Science)	Ritu Papney	B.Sc. (H) Biomedical Science, II Year
8.	Synthesis and stabilization studies of silver nanoparticles	Dr Archna Pandey Dr Ritu Khosla Dr Rajeev Ranjan (Biomedical Science)	Vipasha Kamboj	B.Sc. (H) Biomedical Science, II Year
9.	To study interaction of SARS-CoV-2's surface and secretory proteins with amyloidogenic proteins responsible for cardiac amyloidosis.	Dr Archna Pandey Dr Rimpay Kaur Chowhan (Biomedical Science)	Ajay Kumar Singhmar, Hirday Sehgal	B.Sc. (H) Biomedical Science, III Year
10.	Labulbeniomycetes	Dr Anita Narang Dr Anupama Shukla Dr Sumit Sahni (Botany)	Haemakshi Biswas, Anushka Tiwari, Shuruti Panwar	B.Sc. (H) Botany, II Year

11.	Genotoxic effect of Heavy Metals Cr and Hg using <i>Allium cepa</i> L. Investigating the impact of oxidation stress on genetic stability during cell division	Dr Anita Narang Dr Sumit Sahni Dr Vineet Kumar Singh (Botany)	Ajit Narayan Jha, Anika Sharma, Aradhy, Anurag	B.Sc. (Prog.) Life Science, I Year
12.	Cultivation of <i>Lentinula edodes</i> on college generated lignocellulosic waste and isolation of extracellular enzymes from spent mushroom substrate	Dr Anita Narang Dr Sumit Sahni Dr Vineet Kumar Singh (Botany)	Samridhi Mishra, Ridhi Rai, Nidhi Sharma, Pratiksha Saini, Jangidi Ranjit	B.Sc. (H) Botany, II Year
13.	Enhancement of Antibiotic (Kanamycin) efficacy through synergistic effect using multifarious medicinal plant extracts to curb <i>Micrococcus luteus</i> and <i>E. coli</i> growth	Dr Anita Narang Dr Sumit Sahni (Botany) Dr Satendra Singh (Biomedical Science)	Saarthak Kumar, Suprobh Ahna Borah, Hirtik Singh Rathore	B.Sc. (H) Biomedical Science, II Year
14.	Study of Labulbeniomycetes	Dr Anupama Shukla (Botany)	Akza K John,	B.Sc. (H) Botany, II Year
			Anson Antony, Maushmi P.T.	B.Sc. (H) Biomedical Science, II Year

15.	Effect of Vitamin on the Germination of Tomato Seedlings	Dr Geetika Kalra Dr Anita Thakur (Botany)	Afshar Ajmeri, Aman Kumar, Anjali, S. Ananya, Ritik Pratap Singh	B.Sc. (H) Botany, II Year
16.	Estimation of Chlorophyll Content in the native Indian tree species	Prof. Charu K Gupta Dr Anita Thakur (Botany) Prof. Arijit Chowdhuri (Physics)	Shubhi Dixit	B.Sc. (Prog.) Life Science, I Year
			Niharika Sehgal	B.Sc. (H) Biomedical Science, I Year
17.	Assessing the Impact of Heavy Metals on Plant Fitness and the efficacy of Phytohormones in mitigating their effects: A Comprehensive Meta-Analysis Review	Prof. Charu K Gupta Dr Vineet Kumar Singh (Botany)	Adiya Vatsa, Mitali Saini, Roja Sharma	B.Sc. (H) Botany, II Year
18.	Effect of particulate matter on reproductive fitness of native tree species in Delhi	Prof. Charu K Gupta Dr Vineet Kumar Singh (Botany) Prof. Arijit Chowdhuri (Physics)	Vaibhav Khatri, Srijal Priya, Aniket Raj	B.Sc. (H) Botany, I Year

19.	Study of allelopathic effects of weeds on seed Germination of Vignaradiata L.	Dr Rashmi Sharma (Botany)	Vishal Bahadur B.K., Sahil Kumar	B.Sc. (H) Botany, II Year
20.	Synthesis Characterization and antibacterial study of nanocomposite prepared from laboratory waste	Prof. Seema Gupta (Chemistry) Dr Satendra Singh (Biomedical Science)	Nibha Kumari, Divya Gulihar	B.Sc. (H) Chemistry, II Year
21.	Synthesis Characterization and antibacterial study of Iron Oxide nanoparticles from lab waste	Prof. Seema Gupta (Chemistry) Dr Satendra Singh (Biomedical Science)	Bhumika Bhardwaj, Dipankar Dev Rishi	B.Sc. (H) Chemistry, II Year
22.	Preparation of deep eutectic solvents and their application to synthesize silver nanoparticles	Prof. Seema Gupta Prof. Pooja Bhagat (Chemistry)	Kanjika Rastogi, Nikita Sharma, Sarathak Singh	B.Sc. (H) Chemistry, II Year
23.	Adsorption of Metformin Hydrochloride Drug by Chitosan-Based Graphene Oxide (GO) Nanocomposites	Prof. Sunita Hooda Prof. Geetu Gambhir (Chemistry)	Kapil Sharma, Puneet Chauhan, Soven Kumar Samal	B.Sc. (Prog.) Life Science, II Year

24.	Study of Hybrid Magnetic Spinels for Photocatalysis	Prof. Sunita Hooda Prof. Geetu Gambhir Dr Bhawna Kaushik (Chemistry)	Zubishah Rais, Srashti Gupta	B.Sc. (Prog.) Life Science, II Year
25.	Nano composites of Magnetic Tamarind with Cobalt Oxide as a promising Adsorbent for Reactive Blue19 Dye from Wastewater	Prof. Sunita Hooda Prof. Geetu Gambhir (Chemistry) Dr Manisha Verma (Physics)	Ilma Khan, Ayushi Rajput	B.Sc. (Prog.) Life Science, II Year
26.	Digital Empowerment of students of Acharya Narendra Dev College	Dr Sunita Narang (Computer Science) Dr Shalu Mahajan (Commerce)	Yuvraj Saroha, Utkarsh Tiwari	B.Sc. (H) Mathematics, II Year
			Ayush Bhardwaj, Awani Sharma	B.Sc. (H) Computer Science, II Year
27.	How to convert a business idea into a successful start-up?	Dr Surinder Kaur (Commerce)	Vedant Maheshwari	B.Com. (H), II Year
28.	Digital Economy – An analysis on its effects and applications upon India	Dr Surinder Kaur Ms Rupali Pabreja (Commerce)	Kunal Kumar, Himanshu Raj	B.Com. (H), II Year

29.	Digital Marketing- An analysis of perspective of consumer in India	Dr Surinder Kaur Ms Rupali Pabreja (Commerce)	Shruti Kumari, Shreya Gupta	B.Com. (H), I Year
30.	The Impact of YULU on Urban Mobility and Environment	Dr Surinder Kaur Ms Rupali Pabreja (Commerce)	Rishabh Singh Kaushik, Vivek Kunwar	B.Com. (H), I Year
31.	Impact of artificial intelligence in the economy of India	Dr Surinder Kaur (Commerce)	Sushant Anand	B.Com. (H), I Year
32.	Digitalization of Indian economy	Dr Surinder Kaur (Commerce)	Vicky kumar	B.Com. (H), I Year
33.	A Study of Select factors affecting the Stock Market	Dr Sandeep Kr. Goel Dr Jitender Goel (Commerce)	Karuna Roy, Aparna Chaurasia, Muskan	B.Com. (H), I Year
34.	A Study on Green Marketing Initiatives of Select Indian Companies	Dr Sandeep Kr. Goel Dr Jitender Goel (Commerce)	Aayushi Gupta, Lakshya Sabhaal	B.Com. (H), II Year
35.	An Analysis of IPO Market in India	Dr Sandeep Kr. Goel Dr Jitender Goel (Commerce)	Nitin Kumar Aggarwal, Aadya Agrawal	B.Com. (H), III Year

36.	Cash Burn Model in Business: A Study of Select Start-ups Worldwide in Achieving Profitability	Dr Sandeep Kr. Goel Dr Jitender Goel (Commerce)	Charudev Gupta	B.Com. (H), II Year
37.	Faculty Publication Management	Prof. Sharanjit Kaur (Computer Science)	Shahnwaz Khan, Prakash Kumar Singh	B.Sc. (H) Computer Science, III Year
38.	WanderLust: Travelling Application	Prof. Sharanjit Kaur Ms Gunjan Rani (Computer Science)	Ayush Yadav, Pranav Singh, Riyansh Sharma, Shrishti Rawat	B.Sc. (H) Computer Science, II Year
39.	Social Networks: Design, Impact and Challenges	Prof. Sharanjit Kaur (Computer Science)	Piyush Singh, Rohan, Sagar	B.Sc. (H) Computer Science, II Year
40.	D2C selling portal for the farmers produce based on nearest traversals of demand	Dr Preeti Marwaha (Computer Science)	Arpit Bharadwaj, S Kanak Megha	B.Sc. (H) Computer Science, II Year
41.	Crafting and Reveiling: Invisible Cloaks	Dr Preeti Marwah Dr Arunita Chaukiyal (Computer Science)	Nishant Pratap singh Adi Maqsood	B.Sc. (H) Computer Science, I Year

42.	Vehicle tracking sysrtem	Prof. Chandra Kanta Samal Ms Gunjan Rani (Computer Science)	Ayush Chaudhary, Chetna Panchal, Divya Mishra, Pranjal Verma, Ravi Tomer	B.Sc. (Prog.) Physical Science with Computer Science, II Year
43.	Translating Court Judgments into regional languages	Ms Gunjan Rani (Computer Science)	Shubh Sankhyadhar, Chandan Kumar, Shorya Bhatnagar	B.Sc. (H) Computer Science, II Year
44.	Repository for Crop Production and Agriculture	Ms Nishu Singh (Computer Science)	Dinesh Kumar, Mihir Kumar Sah	B.Sc. (H) Computer Science, II Year
45.	A comparative study of Esports and Traditional sports: Analysis of Audience and Revenue Generation	Prof. Anju Agrawal Dr Monika Bhattacharya (Electronics)	Harsh Singh, Tanmay Sharma, Vansh	B.Sc. (H) Electronics, I Year
46.	Sunlight Sensitive Smart Roof with Rainfall Protection	Prof. Anju Agrawal Dr Ravneet Kaur Dr Monika Bhattacharya (Electronics)	Aman, Muskan kumar Sharma, Vishal Gupta	B.Sc. (H) Electronics, II Year

47.	Obstacle Avoidance Robotic Vehicle	Dr Ravneet Kaur Dr Monika Bhattacharya (Electronics)	Dev Panchal, Anshu Kumari, Saurabh Kaushik, Prachi Dubey	B.Sc. (H) Electronics, II Year
48.	Departmental Website ELE.DEP	Dr Ravneet Kaur Ms Gauri Ghai (Electronics)	Govind Kushwah, Abhinav Saxena, Pankaj Kumar	B.Sc. (H) Electronics, I Year
49.	Fourier transform applications in image processing	Dr Monika Bhattacharya (Electronics)	Prachi Dubey	B.Sc. (H) Electronics, II Year
50.	GSM based Home Security Alarm System	Dr Monika Bhattacharya Ms Gauri Ghai (Electronics)	Vishal Gupta, Chandan Kumar, Prashant Kumar, Sachin Jarwal	B.Sc. (H) Electronics, II Year
51.	Studying Sociological Impact of Madness and Maternity in Select literary works	Ms Ankita Rasaily (English)	Parthib Kalita, Devika A.P., Pratikshya Panda, Ankisha Choudhary, Anushka Tomar	B.Sc. (H) Zoology, I Year

52.	Application of subsets and Bayesian Theorem in Spam Detection	Dr Vatsla Kohli Ms Seema Gupta (Mathematics)	Mayank Rathi	B.Sc. (H) Mathematics, I Year
53.	Analysis of Continuum Hypothesis on it's Existence	Dr Vatsla Kohli Ms Seema Gupta (Mathematics)	Vishal Kumar	B.Sc. (H) Mathematics, I Year
54.	Estimation of Pi using Monte Carlo method and Platonic Solids and verifying the Paul Dirac delta function	Dr Sanjeeta Rani Dr Manisha Verma Prof. Subhash Kumar (Physics)	Samyak Marathe	B.Sc. (H) Physics, I Year
55.	Study of the Role of Nyquist Plot and Graphical Analysis of Electrochemical Impedance Spectroscopic Data	Dr Sanjeeta Rani Dr Manisha Verma (Physics) Prof. Sunita Hooda (Chemistry)	Kunwar Sugam Anugrah, Abhineet Singh Rajput	B.Sc. (H) Physics, I Year
56.	Estimation of pi using Platonic Solids	Dr Sanjeeta Rani Dr Manisha Verma Prof. Subhash Kumar (Physics)	Manan Vyas	B.Sc. (H) Physics, I Year

57.	Exploring the Cosmos	Dr Meenu Mohil (Physics)	Vijay Rawat	B.Sc. (H) Physics, II Year
58.	Determining the propagation loss coefficient of the given single-mode optical fibre	Dr Meenu Mohil	Jagdish Arya	B.Sc. (Prog.) Life Science, III Year
		Dr Sanjay Kumar (Physics)	Harsh Bhati	B.Sc. (Prog.) Physical Science with Computer Science, III Year
59.	Synthesis of 2D materials for sensing applications	Prof. Arijit Chowdhuri Dr V. Bhasker Raj (Physics) Prof. Charu Khosla Gupta (Botany)	Aditya Kumar Singh, Ashish Gupta	B.Sc. (H) Physics, II Year
60.	Ambient Air Pollution measurement using 2D materials	Prof. Arijit Chowdhuri Dr V. Bhasker Raj (Physics) Prof. Charu Khosla Gupta (Botany)	Ravi Kant Shukla, ShivamTomar	B.Sc. (H) Physics, II Year

61.	To study the effect of temperature on the in vitro growth of ciliates (Oxytricha sp.)	Prof. Ravi Toteja Prof. Seema Makhija (Zoology) Prof. Pooja Bhagat (Chemistry)	Mohd. Tabish, Mohd. Ali Hossain, Maahi	B.Sc. (H) Biomedical Sciences, III Year
62.	To study the effect of pH on the in vitro growth of ciliates (Oxytricha sp.)	Prof. Ravi Toteja Prof. Seema Makhija (Zoology) Prof. Pooja Bhagat (Chemistry)	Heena Parveen	B.Sc. (Prog.) Life Science, III Year
			Indu M.	B.Sc. (H) Biomedical Science, III Year
63.	To study copper (Cu) Toxicity on Oxytricha sp.	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Khushi Rani	B.Sc. (H) Biomedical Science, II Year
			Khushboo	B.Sc. (H) Zoology, II Year

64.	Tools and Techniques for species identification in ciliates.	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Shailvi, Swapnil	B.Sc. (H) Zoology, II Year
65.	To study Ethanol Exposure on Different Developmental Stages of Zebrafish (Danio rerio).	Dr Monica Misra Ms Bhumika Chauhan (Zoology)	Bhawna Gurnani, Aru Chaudhary	B.Sc. (Prog.) Life Science, II Year
			Jasmine Negi, Tannu Gond	B.Sc. (H) Zoology, II year
66.	To establish the culture of Zebrafish (Danio rerio) and observe their growth 120 hrs Post-fertilization.	Dr Monica Misra Ms Bhumika Chauhan (Zoology)	Divya Pandey	B.Sc. (Prog.) Life Science, II Year
			Anshika Tyagi, Vasundhra Bhattacharya	B.Sc. (Prog.) Life Science, I Year
67.	To study effects of different diets on growth and Development of Zebrafish (Danio rerio)	Dr Monica Misra Ms Bhumika Chauhan (Zoology)	Shikha Negi, M. Vathsala	B.Sc. (Prog.) Life Science, II Year

6.2.6 Live Videos Created by Faculty of ANDC

List of tutorial videos created by faculty of Department of Physics as classroom support material			
S. No.	Title of Video	Contributor (Department)	URL
PHYSICS – 27			
1.	Radiation – 1	Dr Manisha Verma	https://www.youtube.com/watch?v=-inPezsTndw&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=16
2.	Radiation – 2	Dr Manisha Verma	https://www.youtube.com/watch?v=f173OJ4O9a4&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=15
3.	Radiation – 3	Dr Manisha Verma	https://www.youtube.com/watch?v=mjIIZwnu7I0&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=14
4.	Radiation – 4	Dr Manisha Verma	https://www.youtube.com/watch?v=i0kl1VKIreo&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=13
5.	Thermodynamic Potential – 1	Dr Manisha Verma	https://www.youtube.com/watch?v=Fp9doCpjEoI&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=26
6.	Thermodynamic Potential – 2	Dr Manisha Verma	https://www.youtube.com/watch?v=LaqFTPbOUIM&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=25

7.	Thermodynamic Potential – 3	Dr Manisha Verma	https://www.youtube.com/watch?v=oJJyTAcAFGM&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=24
8.	Thermodynamic Potential – 4	Dr Manisha Verma	https://www.youtube.com/watch?v=gVI5P7jY3aM&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=23
9.	Thermodynamic Potential – 5	Dr Manisha Verma	https://www.youtube.com/watch?v=tlFG5obowwU&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=22
10.	Thermodynamic Potential – 6	Dr Manisha Verma	https://www.youtube.com/watch?v=wAKZmJBXXTY&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=21
11.	Thermodynamic Potential – 7	Dr Manisha Verma	https://www.youtube.com/watch?v=w57ReZKz1Io&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=20
12.	Thermodynamic Potential – 8	Dr Manisha Verma	https://www.youtube.com/watch?v=B2Hh1Cqqg0E&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=19
13.	Kinetic Theory of gases – 1	Dr Manisha Verma	https://www.youtube.com/watch?v=na4uQwnEhZY&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=27
14.	Kinetic Theory of gases – 2	Dr Manisha Verma	https://www.youtube.com/watch?v=DqmQKBrc1X0&list=PLNsppmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=28

15.	Kinetic Theory of gases – 3	Dr Manisha Verma	https://www.youtube.com/watch?v=re5B-2bxU5w&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=29
16.	Kinetic Theory of gases – 4	Dr Manisha Verma	https://www.youtube.com/watch?v=MHJf4UIPXQw&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=30
17.	Real Gases – 1	Dr Manisha Verma	https://www.youtube.com/watch?v=vmkiQDDb91Y&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=52
18.	Real Gases – 2	Dr Manisha Verma	https://www.youtube.com/watch?v=we61qhuEoL0&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=36
19.	Real Gases – 3	Dr Manisha Verma	https://www.youtube.com/watch?v=BQKWjfVdUhQ&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=35
20.	Real Gases – 4	Dr Manisha Verma	https://www.youtube.com/watch?v=av-O71z3bPM&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=38
21.	Heat Engines	Dr Manisha Verma	https://www.youtube.com/watch?v=nrHszR961Vc&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=53

22.	Shift Registers – 1	Prof. Arijit Chowdhuri	https://www.youtube.com/watch?v=HbYfMWGKsYU&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=70
23.	Shift Registers – 2	Prof. Arijit Chowdhuri	https://www.youtube.com/watch?v=50iAC2_G00Y&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=69
24.	Shift Register (Universal) – 1	Prof. Arijit Chowdhuri	https://www.youtube.com/watch?v=U9Ay5LLgjz4&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=66
25.	Shift Register (Universal) – 2	Prof. Arijit Chowdhuri	https://www.youtube.com/watch?v=_KR9jk5rRYw&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=65
26.	Counters	Prof. Arijit Chowdhuri	https://www.youtube.com/watch?v=E8FyeRkfdnA&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=58
27.	Basics of operational amplifier	Prof. Arijit Chowdhuri	https://www.youtube.com/watch?v=HkG7ujN1kxk&list=PLNspmbLKJ8KeEIxy81OlC-AGIWJAG8gL&index=57

6.2.7 Exhibitions/Seminars/Training Courses Conducted by the college

6.2.7.1 International Workshop

Quantitative microbial ecology: Opportunities and Way-ahead

Date: February 04, 2023

Patrons: Prof. Rup Lal, ISME Ambassdor, Prof. Ravi Toteja, Officiating Principal, ANDC

Conveners: Prof. Seema Makhija, Dr Jasvinder (Gargi College)

Co-Conveners: Dr Gauri Garg Dhingra, Dr Princy Hira, Dr Utkarsh Sood

Organizing Team: Dr Archana Pandey, Dr Rashmi Sharma, Prof. Geetu Gambhir, Mr Ravinder Kumar Sagar, Dr Rahul Dev, Dr Neelgagan singh, Dr Rimpay Kaur Chowhan, Dr Sushma Bharadwaj, Dr Sumit Sahni, Dr Vineet K Singh, Non Teaching Staff of Zoology Department

No. of Participants: 64

Acharya Narendra Dev College in association with Gargi College, UoD; IMiLI-SAC & PhixGen Pvt. Ltd. organized a one day workshop on Quantitative microbial ecology: Opportunities and Way-ahead under the aegis of DBT STAR College scheme was sponsored by International Society for Microbial Ecology (ISME). The workshop started with an introduction to International Society for Microbial Ecology. The students were familiarized with ISME and its goals. Dr Jasvinder Kaur informed students about the ISME events and its two scientific publications: The prestigious ISME Journal and ISME Communications. Keynote Lecture on Scaling-up and integrating system-based approaches in environmental microbiome to advance ecosystem services was delivered by Prof. Brijesh Singh, Director-Global Centre for Land-Based Innovations, Distinguished Professor, from Australia. Prof. Singh familiarized the students with the idea of scaling up microbiome research to national and global scales. The second Keynote Lecture on Microbiome: Human Health, Environment, and Societal Perspective was delivered by Prof. Rup Lal who presented the recent developments in understanding microbial diversity that by using computational tools have brought a revolution in the field of microbiome research particularly in the understanding human gut microbiome. An invited lecture was delivered by Dr Roshan Kumar, PG Department of Zoology, Magadh University on Monkey Pox Virus (MPXV): Phylogenomic, Host- Pathogen Interactome, and Mutational Cascade. Dr Kumar presented his research on the genome sequences of Monkeypox isolates, involving phylogenomics, host-pathogen interactions, mutation prevalence and evolutionary dynamics.

6.2.7.1.1 Hands-on Sessions

Name of the Experiment	Resource Person	Affiliation
DNA around you: Isolation of DNA from Onion	Dr Gauri Garg Dhingra and Dr Utkarsh Sood	Kirorimal College, University of Delhi
To study diversity of bacteriophages in soil	Ms Ritu Arora, Ms Kanika Nadar, Prof. Urmi Bajpai	Department of Biomedical Science, Acharya Narendra Dev College, University of Delhi
Culture your own micro-organisms	Dr Jasvinder Kaur Dr Princy Hira	Department of Zoology, Gargi College, University of Delhi Department of Zoology, Maitreyi College, University of Delhi
To study ciliate diversity in different soil ecotypes	Prof. Seema Makhija, Prof. Ravi Toteja, Ms Swati Maurya, Ms Jyoti Dagar, Mr Sandeep Antil Prof. Renu Gupta	Department of Zoology, Acharya Narendra Dev College, University of Delhi Department of Zoology, Maitreyi College, University of Delhi

Isolation of insect-borne fungi	Dr Anupama Shukla, Dr Anita Narang, Dr Sumit Sahni, Dr Vineet Kumar Singh	Department of Botany, Acharya Narendra Dev College, University of Delhi
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6.2.7.2 National Level Workshops

6.2.7.2.1 Hands-on Training Workshop on Phage Biology- Discovery and Analysis and Webinars on Bacteriophage Therapy

Coordinator: Prof. Urmi Bajpai

Acharya Narendra Dev College (ANDC), under the DBT STAR scheme and IQAC, in collaboration with Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET) Institute of Eminence-Delhi School of Skill Enhancement and Entrepreneurship Development (IOE-DSEED), and intellectual partner- Society for Bacteriophage Research and Therapy organised “Hands-on Training Workshop on Phage Biology- Discovery and Analysis and Webinars on Bacteriophage Therapy” from January 20-25, 2023. In all, 20 participants including undergraduate and postgraduate and PhD students registered and attended the workshop. The workshop was designed to impart an understanding of the role of bacteriophages as therapeutics and biocontrol agents and to impart hands-on training in microbiological techniques required for isolation, propagation and characterisation of phage and *in silico* tools used in the analysis of phage genomes.

The inaugural session was held at Acharya Narendra Dev College on January 20, which also included online talks by Bacteriophage experts from Industry and academia. The organising committee for the inaugural session consisted of Prof. Urmi Bajpai, Dr Satendra Singh and Dr Rimpay Kaur Chowhan, Faculty, Department of Biomedical Science, ANDC; Ms Ritu and Ms Kanika, Research Scholars, Department of Biomedical Science and Mr Mitesh Dagar were the resource persons; Ms Swati Maurya, Ms Jyoti Dagar and Mr Sandip Antil, Research Scholars, Department of Zoology, ANDC participated as volunteers. The welcome note was given by Prof. Ravi Toteja, Officiating Principal, ANDC. The invited guests present on the day were Prof. Rup Lal, INSA Senior scientist ANDC; Prof. Vijay Kumar Chaudhary, NASI-Senior Scientist and Director Delhi School of Skill Enhancement and Entrepreneurship Development; Prof. Amita Gupta, Professor at the Department of Biochemistry and Director CIIDRET; Prof. Pawan Sharma, Sr. Res. Scientist & Principal Investigator at ICGB; ANDC faculty members, registered participants and online attendees (about 50). A short introduction to CIIDRET and IoE-DSEED's initiative of “100 DAYS TRAINING & SKILL ENHANCEMENT FESTIVAL” by Prof. Amita Gupta and Prof. Vijay Chaudhary and Prof Urmi Bajpai apprised the participants on the workshop schedule and moderated the online talks. The inaugural talk on “Phage-encoded lysins as therapeutics” was given by Prof. T.S. Bal Ganesh, President, Gangagen Biotechnologies Pvt. Ltd., India, followed by a talk by Dr Sabrina Green, Research Associate, KU, Leuven University, Belgium on “Finding phages for phage therapy”. The inaugural session ended with refreshments and the workshop resumed the next day with a hands-on training at CIIDRET from January 21-22, 2023 and at ANDC from January 23-25, 2023. The participants learned Basic Microbiology Techniques, Media Preparation, Phage titration methods-concept of CFU & PFU, Isolation of bacteriophage from the environment, Plaque Assay & Spot Titer, Methods to enumerate phages, Phage DNA Isolation using PCI Method and Phage genome analysis using Bioinformatics. The workshop was successfully completed and the participants gave a highly positive response and requested for similar such workshops in the future.

6.2.7.2.2 National Workshop on “Career and Skill Enhancement for Non-Teaching Staff”

Conveners: Dr Surinder Kaur and Dr Shalu Mahajan, Department of Commerce

Organizing team: DBT STAR College Coordinators, IQAC coordinator

Department of Commerce at Acharya Narendra Dev College, University of Delhi, orchestrated a seven-day National Workshop on ‘Career and Skill Enhancement for Non-teaching Staff’ from September 15-21, 2022. The initiative was held under the DBT STAR College Scheme and IQAC, receiving immense support and patronage from Prof. Ravi Toteja, the officiating Principal of the college.

The inaugural session transpired on September 15, 2022, at the colleges’ seminar hall. Dr Surinder Kaur extended a warm welcome to the guests, Chief guest, Principal, and all the participants and introduced the workshops’ theme elucidating its significance and objectives. Prof. Toteja, welcome address, shedding light on the growing importance of digitalization and financial and administrative skills in enhancing the careers of non-teaching staff in educational institutions. He extended a gracious welcome to the Chief Guest, Senior Professor (Dr) Ajay Kumar Singh, Head and Dean of the Faculty of Commerce and Business at the Delhi School of Economics, University of Delhi. Prof. Ajay Kumar Singh delivered a keynote address, emphasizing the vital role played by non-teaching staff in the effective functioning and development of colleges. He highlighted the significance of aligning one’s behavior with prevailing cultural norms and commended the college for organizing such an insightful workshop. The workshop encompassed a diverse array of topics, ranging from utilizing various digital platforms to understanding the fundamentals of Word, Spreadsheets, PowerPoint, financial planning, E-filing of ITR, and more.

The workshop received an overwhelming response from non-teaching staff across various colleges of the University of Delhi and other institutions. Registrations were limited to 50 participants to ensure the effectiveness of hands-on sessions. The workshop successfully conducted a total of 22 sessions, covering a wide range of subjects. Renowned speakers, including Mr Sikandar Aggarwal, Ms Meenakshi Sahay, Mr Sandeep Sharma, Mr JatinLamba, Dr Jamaluddeen, and Mr Gurjinder Singh, along with senior staff members of the college, delivered sessions covering essential topics such as leave rules, promotion rules, procurement and general finance rules, and online purchases through the GeM portal. Additionally, trips to the college library and laboratories were organized. Participants were also trained in income tax return filing, document preparation using MS Word and Excel for seamless record keeping, and scheduling and hosting online meetings via Google Meet and Zoom platforms. Representatives from Punjab National Bank shared insights into the methods fraudsters employ in online transactions, imparting knowledge to distinguish between genuine and fraudulent messages from banks and other websites.

The participants exhibited high motivation and enthusiasm in learning new skills throughout the workshop, as evident from their regular attendance, active participation in Q&A sessions, and positive demeanor. Their assessments and feedback were gathered at the conclusion of the workshop.

The valedictory session, held on September 21, 2022, featured a closing speech by Dr Shalu Mahajan. Prof. Ravi Toteja, the Officiating Principal, presided over the session, and Prof. Ashutosh Bhardwaj, Founding OSD of the Institute of Eminence and Professor in the Department of Physics and Astrophysics at the University of Delhi, was the esteemed chief guest. Prof. Bhardwaj underscored the importance of lifelong learning and the enthusiasm for acquiring new knowledge to enhance ones’ career

6.2.7.2.3 National workshop on Skill enhancement of Non-teaching staff (NWSSENS-2022)

Conveners: Prof. Seema Makhija and Dr Archna Pandey

Organizing Committee: Prof. Sunita Hooda, Prof. Arijit Chowdhuri, Dr Ravneet Kaur, Dr Chandra Kanta Samal, Prof. Geetu Gambhir, Prof. Pooja Bhagat, Dr Manoj Kumar Singh, Dr Vineet Kumar Singh

Date: July 13-20, 2022

Number of Participants:

In commemoration of centenary celebrations of the University of Delhi, Acharya Narendra Dev College under patronage of its Principal, Prof. Ravi Toteja and Convenors, Prof. Seema Makhija (Department of Zoology) and Dr Archna Pandey (Department of Biomedical Science), organized a National workshop on Skill enhancement of Non-teaching Staff (NWSSENS-2022) from July 13-20, 2022. The workshop was organized under the aegis of Internal Quality Assurance cell and DBT Star College scheme of Acharya Narendra Dev College, and gracious support of Chief Guest, Prof. Shri Prakash Singh, Director, South Campus, University of Delhi and Guest of Honour, Mr Anil Saini, Chairman, Governing Body, Acharya Narendra Dev College. More than 60 non-teaching staff from various colleges of University of Delhi including Institute of Home economics, Lady Irwin college, Ramjas College, etc. participated in the workshop. The workshop was designed for holistic development of the non teaching staff, and covered topics like financial management, tax-filling, stock-keeping, computational skills, operation of GeM portal, basic laboratory skills for safe handling and usage of scientific equipments ranging from pH meters, electrophoresis units, centrifuges, micro-pipettes, microscopes and spectrophotometers. Shri Girish Ranjan, Finance Officer, University of Delhi; ACP Harmeet Singh Randhawa, IFSO/ Cyber Crime Unit Special Cell; Dr Ram Kumar, Professor of Environmental Science, School of Earth Biological and Environmental Sciences, Central University of South Bihar; Jai Kumar Gaurav, Senior Advisor Climate change and Circular Economy, GIZ; Dr Vijay Pal Singh, Assistant Professor and STO, IGIB, Dr Daya Bhardwaj, Associate Professor, Department of Chemistry, Rajguru College of Applied Sciences for Women, University of Delhi were among the several eminent speakers that joined our workshop to deliver talk and train the non-teaching staff.

6.2.7.2.4 Workshop on Anti-Microbial Resistance and Foldscope

Convenors: Dr Rashmi Sharma, Dr Archna Pandey and Prof. Seema Makhija

Organizing Team: Dr Satendra Singh, Dr Rimpay K Chowhan, Dr Ritu Khosla, Dr Deepshikha (Department of Biomedical Science), Dr Manoj Kumar Singh, Dr Sumit Sahni, Dr Vineet Kumar Singh, Dr Rashmi Sharma (Department of Botany), Dr Neelgagan Singh, Dr Rahul Dev, Mr Vineet Girdharwal (Department of Zoology)

Date: October 12-13, 2022

Number of Participants: 46

A hands on workshop on Anti-Microbial Resistance and foldscope was organised under the aegis of DBT Star Scheme by the departments of Botany, Zoology and Biomedical Science on October 11, 2022 in the seminar hall of Acharya Narendra Dev College. 60 undergraduate students of Botany, Zoology, Life Science and Biomedical Sciences attended the workshop. Dr Anupma Harshal W., Superheroes against Superbugs Fellow, Woman in STEM was the resource person. She used beautiful presentation and impromptu role play involving the students to bring home the point that though not all microbes are bad but the bad microbes need to be treated judiciously. She very well brought home the concept of superbugs and lateral transmission of resistance and the need to be aware and mindful while taking anti-biotics.

Later, she introduced the handheld microscope -the foldscope, to the students and introduced them to

the concept of 'frugal science'. Students learnt how to make and use foldscope. A post workshop quiz was attempted by 50 students.

6.2.8 Exhibitions/Seminars/Training Courses Conducted by the Departments

Biomedical Science: (11)

1. Organized Cathexis 2023: Reproductive Health on April 13, 2023.
2. One day hands-on-workshop on Forensic Science was organized on April 12, 2023.
3. Department organized Career Counselling Series: Panel Discussion With Alumni on April 11, 2023.
4. Co-organized One day workshop on Quantitative Microbial Ecology: Opportunities and ways ahead at Acharya Narendra Dev College on February 04, 2023.
5. Hands-on training workshop was organized on "Phage Biology- Discovery and Analysis and Webinars on Bacteriophage Therapy" at Acharya Narendra Dev College from January 20-25, 2023.
6. Co-Organized a workshop on 'How to Read Scientific Literature' for the students on October 14, 2022.
7. Co-Organized an Outreach Workshop on "Cell and Molecular Biology Techniques" on October 12-13, 2022.
8. Co-Organized a hands-on workshop on Anti- Microbial Resistance and foldscope titled "Superheroes against superbugs" on October 11, 2022.
9. The Department has organized a National hands-on workshop on "PCR for Diagnostics and Gene Expression Analyses" from September 27-29, 2022.
10. Co-Organized a National workshop on Digital & Financial Skill enhancement for Non-teaching staff from September 15-21, 2022.
11. Co-Organized a National workshop on Skill enhancement of Non-teaching staff (NWSSENS-2022) from July 13-20, 2022.

Botany: (03)

1. A workshop on 'How to Read Scientific Literature' for the students was organized on October 14, 2022
2. Organized A hands-on workshop on Superheroes against Superbugs for the students to familiarize them with Anti-microbial resistance and Foldscope on October 11, 2022.
3. Department organized a Workshop on Mushroom Culture techniques for the students of Shivaji College, University of Delhi on July 13, 2022.

Chemistry: (06)

1. Organized a 40 hours certificate course on Basics of Research Methodology for Physical Science and Life Science students of first year from January 05-17 June 2023.
2. Organized a five day Bootcamp on 'V-Lab Development 2.2' under the aegis of DBT STAR College Scheme from April 24-28, 2023.
3. Organized a 400 hours course on 'Web Developer' as the 'Skill Hub Initiative' under *Pradhan Mantri Kaushal Vikas Yojana* 3.0 (PMKVY 3.0) for school dropouts and out-of-education candidates from March 16-November 21, 2022.
4. Organized a 60 hours value added course on 'Research Methodology' for Physical Science students from August 30-November 19, 2022.
5. Organized a 60 hours value added course on 'Tools and Techniques in Biological Sciences' for

Life Science students August 29-November 11, 2022.

6. Organized an Online workshop on 'IPR- Patents & Designs filing' in association with Rajiv Gandhi National Institute for Intellectual Property Management (RGNIIPM) under National Intellectual Property Awareness Mission (NIPAM) on August 27, 2022.

Computer Science: (04)

1. Five Days workshop on "V-Lab Development (Building Block of Simulator)" held on April 24-28 April 2023 by Mr Vaibhav Thapiyal, Mr Vibhor Gupta, Mr Pankaj Sahu, Students of Acharya Narendra Dev College, Delhi University.
2. Five Days workshop on "V-Lab Development 2.2" held on April 24-28, 2023 by the students of Acharya Narendra Dev College, Delhi University by Mr Vaibhav Thapiyal, Mr Vibhor Gupta, Mr Pankaj Sahu.
3. Six days workshop on "Revisit Bootcamp 1.1 for V-Lab Development" on January 09-14, 2023 by Mr Pankaj Sahu and Mr Shahnwaz Khan, Students of Acharya Narendra Dev College, Delhi University.
4. Two Days Workshop under FOSS club on "MATLAB" on October 12-17 2022 " by Mr Manoj Kumar , Sr. Application Engineer at DesignTech Systems Pvt. Ltd., New Delhi.

Electronics: (03)

1. Department has organized a Workshop on Hologram Recording and Reconstruction on February 04, 2023
2. Department has organized One Day offline Workshop on Arduino and Sensor Interfacing on January 31, 2023.
3. Hands-on Workshop was organized on Arduino and Sensor Interfacing in technical collaboration with industry partner Touch Techno Pvt. Ltd. on September 10, 2022

Physics: (05)

1. Organized an educational visit on May 31, 2023 for 09 students to Dr Anjali Sharma Kaushik's Lab at Atma Ram Sanatan Dharma College, DU
2. One day seminar on 'Hydrelectric cell the best option to do away global warming and green hydrogen generation by water splitting' on March 21, 2023 by Dr R.K. Kotnala ex-Chairman NABL, Raja Ramanna Fellow, Department of Atomic Energy and Chief Scientist, CSIR-National Physical Laboratory, New Delhi, India
3. One day seminar on 'High level Overview of Semiconductor Industry' on November 09, 2022 by Dr Sujit Kumar, Scientist Interuniversity Microelectronics Centre, Leuven Belgium.
4. One day seminar on 'Quantum Communication' on November 09, 2022 by Mr Siddhartha K. Das, Nanoelectronic Systems, Technical University of Dresden, Germany.
5. One day seminar on 'High Energy Physics and Artificial Intelligence' on October 14, 2022 by Dr Ramakrishna Sharma, CERN, Geneva, Switzerland.

Zoology: (09)

1. Five day Bootcamp on 'V-Lab Development 2.2 and Bootcamp on 'V-Lab Development (Building Blocks of Simulator)': Organized a five day Bootcamp on 'V-Lab Development 2.2' and 'V-Lab Development (Building Blocks of Simulator)' under the aegis of DBT STAR College Scheme on April 24-28, 2023. This workshop was organized for the First and Second year students of all streams of the college. The resource persons were Mr Vaibhav Thapliyal. Mr Shahnawaz Khan and Mr Pankaj Sahu who were final year students of B.Sc (H) Physics, B.Sc

- (H) Computer Science and B.Sc (Prog) Physical Science with Computer Science, respectively from the college.
2. One-week Revisit Bootcamp 1.1 for V-Lab Development: This workshop was organized for the first year and second year students of all streams of the college on January 09-14, 2023. The bootcamp was mainly for those students who has shown interest in to be part of the V-Lab team, and for developing V-labs of their respective courses in future. This workshop exemplifies Peer to Peer Learning.
 3. Department organized 60 Hour Value Addition Course on ‘Tools and Techniques in Biological Sciences’ for Life Science students from August 29-November 11, 2022. This course was conducted by PMRF of IITD.
 4. 7th International Conference of National Soil Contamination and Research (INSCR 2022) Modulating the Environment with Microbes: Organized by Acharya Narendra Dev College, DU in collaboration with Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), PG Department of Zoology, Magadh University (MU), Ramjas College (DU), Sri Venkateswara College (DU), Sri Guru Tegh Bahadur Khalsa College (DU), C.M.P. College (AU), Bhaskaracharya College of Applied Sciences, Shivaji College, DU Miranda House, DU KIIT Bhubenswar, Devbhoomi, U.K., Kolhan University, Jharkhand, PhiXgen Pvt. Ltd., Gurugram and College of Commerce, Arts & Science, Patna. The Conference was held on November 07-11, 2022 and was attended by more than 500 participants.
 5. 3rd International Symposium on Ciliate Biology (ISCB 2022): In commemoration of Centenary Celebrations, Acharya Narendra Dev College and Maitreyi College, in collaboration with INSCR (Indian Network for Soil Contamination Research) organized an online 3rd International Symposium on Ciliate Biology 2022 (ISCB 2022) on November 08, 2022. Thirteen Speakers of International repute enlightened the gathering about their research work.
 6. Workshops on ‘Art of Scientific Writing and Communication’ Ecology’ was organized with the support of International Microbiological Societies, ISME, International Society of Microbial Ecology and FEMS, Federation of European Microbiological Societies on November 08, 2022.
 7. Workshops on ‘Genomics, Metagenomics and Bioinformatics in Microbial Ecology’ was organized with the support of International Microbiological Societies, ISME, International Society of Microbial Ecology and FEMS, Federation of European Microbiological Societies on November 07, 2022.
 8. Co-Organized a Workshop on Anti-Microbial Resistance and foldscope: A hands on workshop on Anti-Microbial Resistance and foldscope was organised under the aegis of DBT Star Scheme by the departments of Botany, Zoology and Biomedical Science on October 11, 2022. Dr Anupma Harshal W. , Superheroes against Superbugs Fellow, Woman in STEM was the resource person. Students also learnt how to make and use foldscope.
 9. An online workshop on ‘IPR- Patents & Designs filing’: The College organized an online workshop on ‘IPR- Patents & Designs filing’ on August 27, 2022 in association with Rajiv Gandhi National Institute for Intellectual Property. Mr Kumar Raju was the resource person.

6.2.9 Outreach Activities: Popular Lectures/Visits

6.2.9.1 Outreach Activities: College Level

6.2.9.1.1 Bani School Innovation Camp II (BaSIC V) and Biar Initiative: A School Outreach Program For Enrichment II (BIOSCOPE II)

Organizing Team: Prof. Rup Lal, Fellow-Indian National Science Academy; Prof. Sukanya Lal, PhiXgen

Pvt. Ltd. and various faculty members and UG students from different colleges of University of Delhi, Prof. Ravi Toteja and Prof. Seema Makhija from Acharya Narendra Dev College, Dr Shailly Anand from Deen Dayal Upadhyaya College; Dr Princy Hira and Dr Ritu Dhingra from Maitreyi College; Dr Pushp Lata from Dept. of Zoology; Dr Charu Dogra Rawat, Ramjas College; Dr Gauri Garg Dhingra and Dr Utkarsh Sood from Kirori Mal College; Dr Kiran and Dr Shekhar Nagar from Deshbandhu College; Dr Meghali, Shivaji College

Date: February 13-14, 2023

Number of Participants: 41

INSA Outreach Program and DU Centenary Celebrations: Under INSA outreach program, "Lectures by INSA Fellows/Young scientists/teacher awardees to young students and teachers of schools and colleges in the remote/rural areas," in which INSA-fellows deliver lecture to motivate and ignite young minds, Prof. Rup Lal, Fellow INSA, INSA Senior Scientist, Acharya Narendra Dev College, University of Delhi selected Govt. Senior Secondary School (GSSS), Bani and Biar located in the Hamirpur district of Himachal Pradesh. In the year 2016, Prof. Lal and his Ph.D. students collaborated with teachers and undergraduate students from Ramjas College, University of Delhi (DBT star college project) and together adopted GSSS, Bani, Hamirpur, Himachal Pradesh on December 23, 2016 and organized Bani School Innovation Camp I (BaSIC, 2016) on December 23-24 2016. BaSIC II was then organised on March 07, 2018; BaSIC III on October 15, 2018; and BaSIC IV on October 21-22, 2019. In 2019, we conducted same program in another nearby school Government Senior Secondary School, Biar named as Biar Initiative: A School Outreach Program For Enrichment I (BIOSCOPE I). All the four programs were a major success as seen from the feedback obtained. In continuation of these efforts, a fifth camp was organized in commemoration of Centenary Celebrations of University on February 13, 2023 and was called Bani School Innovation Camp V or BaSIC V and BIOSCOPE II on February 14, 2023 to motivate and ignite young minds of Govt. Senior Secondary School (GSSS), Bani and Biar located in the Hamirpur District of Himachal Pradesh. This camp was organized for students of classes VI-XII on February 13-14, 2023 with an aim of uplifting the rural areas through propagation of scientific thoughts, promotion of student-teacher interactions and development of communication skills.

As mentioned, these outreach initiatives were started in 2016 to connect with children and society by organizing Innovation Camps for kids in rural areas, Science in general and Microbiology in particular are promoted under these. Two of these programs are the Bani and Biar Initiatives. The program was conducted under the leadership of Prof. Rup Lal, Fellow-Indian National Science Academy; Prof. Sukanya Lal, PhiXgen Pvt. Ltd. and various faculty members and UG students from different colleges of University of Delhi, Dr Shailly Anand from Deen Dayal Upadhyaya College; Dr Princy Hira and Dr Ritu Dhingra from Maitreyi College; Dr Pushp Lata from Dept. of Zoology; Dr Charu Dogra Rawat, Ramjas College; Dr Gauri Garg Dhingra and Dr Utkarsh Sood from Kirori Mal College; Dr Kiran and Dr Shekhar Nagar from Deshbandhu College; Dr Meghali, Shivaji College. In addition, 41 UG students from University of Delhi accompanied and conducted two successful outreach programs at Bani and Biar.

The event was organized by keeping in mind to not only deliver lectures under the aegis of INSA but also included activities of DBT star college and AMI. A total of 13 teaching modules were designed to raise interest in school children and teachers in the field of science and technology. While the school students were the main target, the camp also ignited minds of teachers who serve as pillars of the school.

6.2.9.1.2 Microsphere 2.0: Online International Outreach Program

Co-Organizers: Prof. Ravi Toteja, Prof. Seema Makhija

An online International Outreach Program was organized on September 17, 2022 in association with Deen Dayal Upadhyaya College, Ramjas College, Gargi College, Shivaji College, Acharya Narendra Dev College, Kirori Mal College, SGTB Khalsa College and PG Department of Zoology, Magadh University. **The themes of the program were** Microbiology Literacy Initiative, Microbiome that makes you, Microbes & Life, Microbiology & The Society, Microbial Outbreak, Microbes and Sustainability, student Sessions and Microbiology quiz.

Following keynote talks were organized:

- (1) Societally-Important Microbiology in Education: The International Microbiology Literacy Initiative by Prof. Kenneth Timmis (Professor, Tech. Univ. of Braunschweig, Germany)
- (2) Role of Human Microbiome in Health and Diseases: Children and Societal Perspective by Prof. Rup Lal (NASI Senior Scientist Platinum Jubilee Fellow, The Energy and Resources Institute, New Delhi)
- (3) We are Not Alone: Living with Microbes in Our Body by Prof. Z. Ceren Karahan (Chief, Ankara Uni. Ibn-iSina Investigation and Application Hospital's Central Microbiology Laboratory)
- (4) Far from the heart, far from the mind by Dr Olga C. Nunes (Department of Chemical Engineering, University of Porto)
- (5) Fun with Microbes by Dr Jasvinder Kaur (Gargi College, University of Delhi)
- (6) Our Efforts Towards Microbial Literate Society by Dr Princy Hira (Maitreyi College, University of Delhi)
- (7) Engage the Community Against Viral Outbreaks by Dr Gauri Garg Dhingra (Kirori Mal College, University of Delhi)
- (8) Antimicrobial resistance and sustainable development goals by Dr Deepika Yadav (Shivaji College, University of Delhi)

Two Sessions were organized for students:

- (1) **Microbes Around Us!:** Faculty involved was Dr Shailly Anand (Deen Dayal Upadhyaya College, University of Delhi), Dr Renu Solanki (Deen Dayal Upadhyaya College, University of Delhi) and Dr Jaya Malhotra (Hansraj College, University of Delhi). Students involved in conducting this session were Ankush, Jaya, Ranjita, Priyanka, Anindita (DDUC) Abhay, Aditya, Ipshita and Vani, Kashish (HRC)
- (2) **Isolation of Bacterial DNA Using Simulation! :** Faculty involved was Prof. Seema Makhija (ANDC). Student involved in conducting this session was Vaibhav Thapliyal (ANDC)

A **MICROQUIZ** was organized for students only. The faculty coordinating the quiz were Prof. A. Archana and Dr Nitin Chauhan (Swami Shraddhanand College, University of Delhi) and Dr Parminder Kaur (SGTB Khalsa College, University of Delhi)

6.2.9.1.3 Outreach Workshop on “Cell and Molecular Biology Techniques”

Conveners: Prof. Seema Makhija, Dr Archana Pandey and Dr Rashmi Sharma

Organizing Team: Dr Rahul Dev, Dr Vineet Girdharwal, Dr Neelgagan Singh, Dr Sushma Bhardwaj, Ms Bhumika Chauhan, Mr Abhay Pratap Singh (Department of Zoology), Dr Satendra Singh, Dr Rimpay K Chowhan, Dr Ritu Khosla, Dr Deepshikha (Department of Biomedical Science), Dr Sumit Sahni, Dr Vineet K Singh, Dr Manoj K Singh (Department of Botany)

Research Assistants: Ms Swati Maurya, Ms Jyoti Dagar, Mr Sandeep Antill (Ciliate Biology Laboratory)

Date: October 12-13, 2022

Number of Participants: 27

In commemoration of centenary celebrations of University of Delhi, Acharya Narendra Dev College organized an Outreach Workshop on **Cell and Molecular Biology Techniques** from October 12-13, 2022 under the patronage of Prof. Ravi Toteja, Officiating Principal, ANDC. The conveners for the workshop were Prof. Seema Makhija, (Department of Zoology), Dr Archana Pandey (Department of Biomedical Science) and Dr Rashmi Sharma (Department of Botany), ANDC. The workshop was organized under the aegis of Internal Quality Assurance cell and DBT star college scheme of Acharya Narendra Dev College. 50 candidates participated in the workshop including 24 B.Sc. students and 26 M.Sc. students from G. D. Goenka University, Gurugram, Haryana. The students were given complete hands-on training on cell and molecular biological techniques like Preparation of Competent cells and Transformation Experiment, making of mitosis slides, plasmid DNA isolation, polymerase chain reaction, agarose gel electrophoresis and restriction mapping. The experiments were taught in two different batches so that individual attention could be given to all the participants. The students and Faculty of G. D. Goenka University appreciated the efforts taken by our college.

6.2.9.1.4 An online workshop on ‘IPR- Patents & Designs filing’

The College organized an online workshop on ‘IPR- Patents & Designs filing’ in association with Rajiv Gandhi National Institute for Intellectual Property on August 27, 2022. Mr Kumar Raju was the resource person. He is in the Patent Office, Ministry of Commerce & Industry for more than 10 years and presently working as Assistant Controller of Patents & Designs. He is a program speaker at RGNIPM Nagpur which is the only Central Government National IPR Training Institute in India. The objective of this workshop was to impart training to students in Intellectual Property Rights (IPRs). Mr Kumar Raju educated participants about the various forms of intellectual property, such as patents, trademarks, copyrights, and trade secrets. He also encouraged participants to take proactive steps to safeguard their creations. More than 170 participants including faculty members and students attended the workshop.

6.2.9.2 Outreach activities at the Level of Departments

Biomedical Science (10)

1. Dr Sunita Jetly organised Free Cancer Awareness Program at various locations of Delhi & Uttar Pradesh, including:
 - a. Prateek Stylome, Sector 45, NOIDA on June 04, 2023
 - b. Sector 26, NOIDA on May 06, 2023
 - c. Rassolpur Dasna, UP on March 15, 2023
 - d. Hyde Park, Sector 78, NOIDA on February 04, 2023
 - e. Supreme Court on November 23, 2022
 - f. NRI Residency Sector 45 NOIDA on November 26, 2022
 - g. MLA office opp Aurobindo market, Hauz khas on November 05, 2022
 - h. Llyod Institute of Management and Technology, NOIDA on August 03, 2022
 - i. Sector 51, Kendriya Vihar apartment Association NOIDA on August 05, 2022
 - j. Koshika, Department of Zoology , University of Delhi on July 07, 2022
 - k. Shakti Shalini , Nehru Nagar, Delhi on July 25, 2022
2. Dr Sunita Jetly organized Thalassaemia Awareness Program at various locations of Delhi & Uttar Pradesh, including:
 - a. Shyama Prasad Sarvodaya Vidyalaya Chitranjan Park Delhi on May 11, 2023
 - b. Ganga Ram Hospital (invited by Thalassaemic India 35 years Old NGO for thalassaemia

- to showcase our work) on May 09, 2023
 - c. Ramjas College on March 01, 2023
 - d. Rajguru College of Applied Sciences for Women on November 01, 2022
 - e. Miranda House, University of Delhi on July 08, 2022
3. Prof. Urmi Bajpai delivered a talk on “Bacteriophages: the dark matter of the biospheres” in a symposium on “Data Driven Approaches to Understand Biological Systems. At the CSIR-IGIB, Mathura Road on April 29, 2023.
 4. Prof. Urmi Bajpai delivered a talk on Unleashing Potential, Breaking Boundaries” on the International Day for Women & Girls in Science at the CSIR, HRDG, Pusa on February 10, 2023.
 5. Prof. Urmi Bajpai delivered a talk on Bacteriophages and Lysin Banks to Combat Antibacterial Drug Resistance”. At the 63rd annual international conference of Association of Microbiologists (AMI) of India, at the MDU, Rohtak on February 04, 2023.
 6. Prof. Urmi Bajpai delivered a talk on Importance of Bacteriophage and Lysin Banks to Mitigate the Silent Pandemic” at the 3rd International Conference on Bacteriophage Research and Antimicrobial Resistance (ICBRAR) on November 27, 2022.
 7. Prof. Urmi Bajpai was Co-panelist with Prof. Herman Barkema, University of Calgary, in an online panel discussion on “Antimicrobial Resistance & One Health: Stakes involved and the way forward”, organized by IBLOT, EBPMN and TechInvention Pvt Ltd. on November 18, 2022.
 8. Dr Satendra Singh, Dr Ritu Khosla, Dr Rimpay Kaur Chowhan and Dr Deepshikha was resource person in the National Workshop on Career and Skill Enhancement for Non-Teaching Staff from September 15-21, 2022.
 9. Dr Archana Pandey and Dr Ritu Khosla was Resource person in the National hands-on workshop on “PCR for Diagnostics and Gene Expression Analyses” from September 27-29, 2022.
 10. Dr Satendra Singh, Dr Ritu Khosla, Dr Rimpay Kaur Chowhan and Mr Vinesh Kumar was resource person in the National Workshop on Skill Enhancement for Non-Teaching Staff from July 13-20, 2022.

Botany (03)

1. In commemoration of centenary celebrations of University of Delhi, Acharya Narendra Dev College organized an Outreach Workshop on Cell and Molecular Biology Techniques under the patronage of Prof. Ravi Toteja, Principal, ANDC. 24 B.Sc students and 26 M.Sc students from GD Goenka University, Gurugram, Delhi were given complete hands-on training on cell and molecular biological techniques like Preparation of Competent cells and Transformation Experiment, making of mitosis slides, plasmid DNA isolation, polymerase chain reaction, agarose gel electrophoresis and restriction mapping October 12-13, 2022.

Visits:

2. Visit to *Sanjay Van*: Prof. Charu K Gupta, Dr Vineet K Singh, Dr Mandeep Kaur and Dr Anita Thakur took B.Sc. (H) Botany students to *Sanjay Van* and *Neela Hauz* to study the ecology of the system on April 25, 2023
3. Visit to Tuglakabad Biodiversity Park: Prof. Charu K Gupta, Dr Vineet K Singh and Dr Sumit Sahni had taken 45 students from the department for a plantation drive on World Environment Day June 05, 2023

Chemistry: (01)

1. Under Community outreach activity five workshops on ‘Safer And Greener Chemistry Lab’

were organised in five schools in collaboration with GAD TLC SGTB Khalsa College by Department Of Chemistry A.N.D College under aegis of IQAC and DBT Star College Scheme (Co-ordinator and resource person-Prof. Rashmi Thukral) on January 28-31, 2023

Electronics: (09)

1. Dr. Ravneet Kaur chaired a session in International Conference on Advances in IoT, Security with AI (ICAISA-2023), Deen Dayal Upadhyaya College, University of Delhi, Sector-3, Dwarka on March 24, 2023.
2. Dr Ravneet Kaur participated as Resource Person in a five-day workshop on “Development of Audio Video Resources based on Laboratory Manual in Science at Upper Primary Stage” held at DESM, NCERT, New Delhi from February 27-March 03, 2023.
3. Prof. Anju Agrawal chaired a session in the 3rd International Symposium on Ciliate Biology (ISCB-2022) organized by Acharya Narendra Dev College and Maitreyi College, University of Delhi under the aegis of DBT STAR College Scheme and IQAC held on November 08, 2022.
4. Prof. Amit Garg, Prof. Anju Agrawal, Dr Ravneet Kaur, Ms Gauri Ghai, Dr Monika Bhattacharya and Mr Dinesh Kumar served as Resource Person in National Workshop on Skill Enhancement of Non-Teaching Staff (NWSSENS-2022) Organised by Acharya Narendra Dev College from July 13-20, 2022.
5. Dr. Ravneet Kaur and Dr. Monika Bhattacharya served as Expert Reviewer for IT related Vocational Education courses at Bhartiya Shiksha Board (BSB).

Visits

6. Organized an excursion to The Bureau of Indian Standards for the students of B.Sc. (H) Electronics and SPIE society chapter member @ANDC, on April 07, 2023.
7. Organized an excursion to National Science Centre for the students of B.Sc. (H) Electronics and SPIE society chapter members @ANDC, on February 11, 2023.
8. Organized an education visit to Nehru Planetarium, New Delhi on for the students of B.Sc. (H) Electronics and SPIE society chapter members @ANDC, September 24, 2022
9. Organized an Education visit to PM Museum (*Pradhanmantri Sangrahalaya*), New Delhi for the students of B.Sc. (H) Electronics and SPIE society chapter members @ANDC, on September 24, 2022.

Physics: (05)

1. Two month long hands-on training of 05 (five) students on advanced thin film deposition and characterization equipment at Smart Materials and Devices Laboratory at Miranda House, University of Delhi, Delhi – 110 007 during June – July 2023.
2. Organized an educational visit on May 31, 2023 for 09 students to Dr Anjali Sharma Kaushik's Material Science research laboratory in ARSD College, University of Delhi
3. Organized an educational visit on February 28, 2023 (National Science Day) for 10 students to Inter University Accelerator Centre (formerly Nuclear Science Centre) Aruna Asaf Ali Marg, near Vasant Kunj, Vasant Kunj, New Delhi, Delhi – 110 067
4. Organized an educational visit on February 28, 2023 (National Science Day) for 10 students to National Physical Laboratory, Dr KS Krishnan Marg, Pusa, New Delhi, Delhi – 110 012
5. Organized an educational visit on February 28, 2023 (National Science Day) for 10 students to Smart Materials and Devices Laboratory at Miranda House, University of Delhi, Delhi – 110 007

Zoology: (09)

1. Prof. Seema Makhija delivered a talk and conducted workshop on 'Fascinating World of Microbes, Protozoans and Career Opportunities' in G.D. Goenka University, Gurugram on May 16, 2023.
2. Bani School Innovation Camp II (BaSIC V) and Biar Initiative: A School Outreach Program For Enrichment II (BIOSCOPE II): This was the second camp organized in commemoration of Centenary Celebrations of University to motivate and ignite young minds of Govt. Senior Secondary School (GSSS), Bani and Biar located in the Hamirpur District of Himachal Pradesh. This camp was organized for students of classes VI-XI with an aim of uplifting the rural areas through propagation of scientific thoughts, promotion of student-teacher interactions and development of communication skills on February 13-14, 2023.
3. One day workshop on Quantitative microbial ecology: Opportunities and Way-ahead: Acharya Narendra Dev College, University of Delhi (UoD) in association with Gargi College, UoD; IMiLI-SAC & PhixGen Pvt. Ltd. organized a workshop on Microbial Ecology. This event was sponsored by International Society for Microbial Ecology (ISME) on February 04, 2023.
4. Prof. Sarita Kumar was Resource Person in Online Review Workshop (reviewing the e-content, uploading Comments & Suggestions) on the Google Drive Link Shared, and coordinating with MPD, CIET NCERT faculty from October-December, 2022.
5. In commemoration of centenary celebrations of University of Delhi, Acharya Narendra Dev College organized an Outreach Workshop on "Cell and Molecular Biology Techniques" under the patronage of Prof. Ravi Toteja, Officiating Principal, ANDC. 24 B.Sc. students and 26 M.Sc. students from G. D. Goenka University, Gurugram, Delhi were given complete hands-on training on cell and molecular biological techniques like Preparation of Competent cells and Transformation Experiment, making of mitosis slides, plasmid DNA isolation, polymerase chain reaction, agarose gel electrophoresis and restriction mapping October 12-13, 2022.
6. MICROSPHERE 2.0: An International Outreach Program: An initiative to promote Microbial Literacy in school and UG Students on September 17, 2022.
7. Dr Monica Misra, Prof. Seema Makhija, Dr Neel Gagan Singh and Dr Sushma Bhardwaj organized a session on visit to Zebra Culture facility and other research facilities in the Zoology Department for the Non Teaching staff on September 17, 2022 during the National Workshop on Career and Skill Enhancement for Non-teaching Staff under the aegis of DBT STAR College Scheme and IQAC.
8. Prof. Sarita Kumar was Resource Person in Workshop on 'Modification and Upgradation of Biology and Biotechnology Laboratory', DESM, NCERT from August 01-05, 2022.

Visits

9. Organized one day Educational Trip to National Zoological Park, New Delhi on September 29, 2022 to observe behavior of animal for their Animal Behaviour & Chronobiology paper. Delhi Zoological Park is home to large species of birds and multiple exceptional animals such as White Tiger, Royal Bengal Tiger, Gaur, Jaguar, Rhinoceros, Elephants, Asiatic Lion and lion-trailed monkey.

6.2.10 Invited Lectures

Biomedical Science: (11)

S.No.	Invited Speaker	Designation/Affiliation	Title	Date
1.	Dr Anil Kaura	Fingerprint Master, Orient Sourcing Solutions	Crime Scene Investigation	April 12, 2023
2.	Mr Shubham Gautam	Cyber Forensic Strategist, Psyberbull	Cyber Forensics	April 12, 2023
3.	Ms Afreen Tarannum	Director, Academic Affairs, SIFS, India	Handwriting and Fingerprint Analysis	April 12, 2023
4.	Dr Pawan Mehrotra	Managing Director, Aarna Biomedical Products- A Social Healthcare Enterprise	Panel Discussion with Alumni	April 11, 2023
5.	Mr Harshit Arora	MBA Healthcare Management, Goa Institute of Management		
6.	Mr Alok Anand	PhD Scholar, IIIT Delhi		
7.	Mr Mrinal Chawla	Indian Audit and Account Services (IAS)		
8.	Dr Animesh Kar	PhD SRF, Regional Center for Biotechnology, Haryana, India		
9.	Ms Sonanjali Aneja	PhD Scholar, National Institute of Immunology, Delhi, India		
10.	Dr T. S. Balganes	President and Member, Board of Directors, GangaGen Biotechnologies Pvt. Ltd. (GBPL)	Webinars on Inaugural Sessions of Hands-on training workshop on “Phage Biology- Discovery and Analysis and Webinars on Bacteriophage Therapy”	January 20, 2023
11.	Dr Sabrina Green	Research Associate, KU, Leuven University, Belgium		

Botany (02)

S.No.	Invited Speaker	Designation/Affiliation	Title	Date
1.	Dr Sumer Pal Singh	Principal Scientist Division of Genetics, ICAR-IARI	Millets: Our National Pride	March 23, 2023
2.	Dr Inderjeet Kaur Sethi	Retired Associate Professor, SGTB Khalsa college	Living in Sunshine	October 12, 2022

Chemistry (02)

S.No.	Invited Speaker	Designation/Affiliation	Title	Date
1.	Dr Vivek Mishra (Assistant Professor) and Dr. Ranjan Patra (Assistant Professor)	Amity Institute of Click Chemistry Research and Studies, Amity University, Noida	“Exploring the world of Molecular Chemistry and its Future Prospects”	March 24, 2023
2.	Dr Meena Bisht (Assistant Professor)	Department of Chemistry, Sri Venkateswara College, University of Delhi	“Improving the activity and stability of proteins/ enzymes in presence of green solvents”	March 24, 2023

Computer Science: (01)

S.No.	Invited Speaker	Affiliation	Title	Date
1.	Dr Ihtiram Raja Khan	Associate Professor, Department of Computer Science and Engineering, Jamia Hamdard University.	Blockchain in Education	April 11, 2023

Physics: (04)

S. No.	Name of guest/faculty	Designation	Title	Date
1.	Dr R. K. Kotnala	ex-Chairman NABL, Raja Ramanna Fellow, Department of Atomic Energy and Chief Scientist, CSIR-National Physical Laboratory, New Delhi, INDIA	Hydrelectric cell the best option to do away global warming and green hydrogen generation by water splitting	March 21, 2023

2.	Dr Sujit Kumar	IMEC, Leuven Belgium	High level Overview of Semiconductor Industry	November 09, 2022
3.	Mr Siddharth Kumar Das	Nanoelectronic Systems, Technical University of Dresden, Germany	Quantum Communication	November 09, 2022
4.	Dr Ramkrishna Sharma	CERN, Geneva, Switzerland	High Energy Physics and Artificial Intelligence	October 14, 2022

Zoology: (19)

S. No.	Name of guest/faculty	Designation	Title	Date
1.	Dr Komal Kamra	Associate Professor (Retd.) Department of Zoology, S.G.T.B. Khalsa College, University of Delhi	Interactive Session on Let's think science	April 25, 2023
2.	Prof. Brijesh Singh	Director-Global Centre for Land-Based Innovations; Distinguished Professor, Australia	Scaling-up and integrating system-based approaches in environmental microbiome to advance ecosystem services	February 04, 2023
3.	Prof. Rup Lal	INSA Senior Scientist, Acharya Narendra Dev College, University of Delhi and Senior Advisor IMiLI	Microbiome: Human Health, Environment, and Societal Perspective	February 04, 2023
4.	Dr Roshan Kumar	Assistant Professor, PG Department of Zoology, Magadh University	Monkey Pox Virus (MPXV): Phylogenomic, HostPathogen Interactome, and Mutational Cascade	February 04, 2023

5.	Prof. Cristina Miceli	School of Biosciences and Veterinary Medicine University of Camerino via Gentile III da Varano 62032 Camerino (MC) ITALY	Ciliate as sensors for environmental stresses	November 08, 2022
6.	Prof. Bettina Sonntag	University of Innsbruck Research Department for Limnology, Mondsee, Austria	Identification of Planktonic Freshwater Ciliates and their Key Roles in Aquatic Environments	November 08, 2022
7.	Prof. Alexey Potekhin	Department of Microbiology, Faculty of Biology, St Petersburg	Diversity and Dynamics of Microbiomes associated with Freshwater Ciliates	November 08, 2022
8.	Prof. Sergey Fokin	Department of Biology, Università, di Pisa, UNIPI	Ciliates and its symbionts from ecological point of view	November 08, 2022
9.	Prof. Gaytha Langlois	Professor of Environmental Policy, Bryant University, Rhode Island, USA	Ciliates in extreme environments	November 08, 2022

10.	Prof. Zhongtang Yu	Professor, College of Food, Agricultural, and Environmental Sciences OSU Center of Microbiome Science Department of Animal Sciences 110E 2029 Fyffe Road Columbus, OH 43210-1095	Genomics of Rumen Ciliates	November 08, 2022
11.	Prof. Elena Sabaneyeva	Professor, Saint Petersburg State University	Symbiotic associations in ciliates: problems and perspectives	November 08, 2022
12.	Dr Alan Warren	Natural History Museum Cromwell Road, London SW7 5B, UK.	Protists are for everyone: A personal overview of knowledge dissemination and promoting public awareness.	November 08, 2022
13.	Dr Adriana Vallesi	Associate Professor, University of Camerino, Macerata, Marche, Italy	Pheromone and pheromone genes structure, expression and evolution.	November 08, 2022

14.	Rosaura Mayén Estrada	Universidad Nacional Autónoma de México, Mexico	Symbiotic ciliates of molluscs with emphasis on species from Mexico	November 08, 2022
15.	Dr Valentina Serra	Project Assistant, H2020-MSCA-RISE “NGTax” project, Pisa University	Next Generation Taxonomy: Ciliophora and their bacterial symbionts as a proof of concept” (Acronym: NGTax)	November 08, 2022
16.	Dr Yuanyuan Wang	Laboratory of Protozoology, Institute of Evolution and Marine Biodiversity, Ocean University of China	Semi-conservative transmission of eukaryotic N6-adenine methylation, 6mA	November 08, 2022
17.	Dr Harpreet Kaur	Postdoctoral Fellow Dacks Lab Division of Infectious Disease, Department of Medicine, University of Alberta	Expansion of SM and Qa-SNARE proteins to regulate vesicle fusion in ciliates	November 08, 2022
18.	Dr S. Sripoorna	Postdoctoral Fellow Animal Science Building, Ohio State University, Columbus, Ohio, USA	Bioinformatics analysis of heavy metal (Cadmium and Copper) binding proteins and Cysteine-rich proteins in <i>Tetrahymena</i> sp. SeJ-2015 to affirm their roles in heavy metal tolerance	November 08, 2022
19.	Dr Ved Prakash	Lab Director Southend Fertility & IVF, Delhi NCR.	Assisted Reproductive Techniques	November 01, 2022

7. College Activites



7. COLLEGE ACTIVITIES

7.1 Internal Quality Assurance Cell (IQAC)

Chairperson	Prof. Ravi Toteja Officiating Principal Professor, Department of Zoology
College Management	Prof. Geetu Gambhir Bursar Professor, Department of Chemistry
	Mr V. S. Rao Administrative Officer
	Mr Chetanya Sharma Section Officer (Accounts)
Alumni cum NGO	Mr Debadityo Sinha
Teacher Members	Prof. Gagan Dhawan Professor, Department of Biomedical Science
	Dr Anupama Shukla Associate Professor, Department of Botany
	Prof. Pankaj Khanna Professor, Department of Chemistry
	Dr Sandeep Kumar Goel Associate Professor, Department of Commerce

	Dr Preeti Marwaha Associate Professor, Department of Computer Science
	Dr Ravneet Kaur Associate Professor, Department of Electronics
	Prof. Arijit Chowdhuri Professor, Department of Physics
	Prof. Sarita Kumar Professor, Department of Zoology
Coordinator	Prof. Sada Nand Prasad Professor, Department of Mathematics
External Members	Prof. A. K. Singh Retd. Professor, Department of Zoology
	Ms Anju Gupta Director, Parnika Commercial and Estate
	Dr Ashwani Kumar Sharma Senior Principal Scientist (Retd.) CSIR-IGIB

7.1.1 Activities organized by IQAC

The academic year 2022-23 was very productive for the Internal Quality Assurance Cell (IQAC) of the College. IQAC started the academic year by submitting five Annual Quality Assurance Reports (AQARs) in the month of July 2022. The AQARs for 2018-19 and 2019-20 were submitted on July 15, 2022; those for 2016-17 and 2017-18 were submitted on July 22, 2022 and the AQAR for 2015-16 was submitted on July 30, 2022. The IQAC of the College submitted the Institutional Information for Quality Assessment (IIQA) on September 08, 2022. This was followed by the preparation of the Self Study Report (SSR) which was submitted on the NAAC portal on February 14, 2023. After that, the IQAC prepared AQARs for the academic years 2020-21 and 2021-22. The same were submitted on the NAAC portal on February 28, 2023. The Committee then underwent the Data Validation and

Verification (DVV) process and provided clarifications sought by NAAC in this regard. The updated SSR, along with DVV clarifications were uploaded on the NAAC portal on April 25, 2023. The Committee then proceeded to make extensive preparations for the NAAC Peer Team Visit which was held on June 27 - 28, 2023. During the NAAC Peer Team Visit, the IQAC gave a presentation to the Peer Team. IQAC also displayed the hard copies of the proofs of the AQARs, IIQA and SSR that it had submitted on the NAAC portal.

Besides the aforementioned activities, the Committee organized and presided over many workshops, seminars and conferences to provide the latest information and training to the students and staff. IQAC also ensured the submission of Annual Performance Assessment Reports (APARs) by the staff to update the personal improvement records of all stakeholders. The Committee also performed the screening of the applications for promotions of the staff members.

7.1.1.1 ONE EARTH ONE FAMILY ONE FUTURE

On April 03, 2023, the Department of Commerce, Acharya Narendra Dev College under the aegis of Internal Quality Assurance Cell (IQAC), ANDC and Department of College Interface, Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with Indian Commerce Association, Delhi NCR Chapter organised one day national conference on “ONE EARTH • ONE FAMILY • ONE FUTURE” in the college. Prof. Balaram Pani, Dean of Colleges, University of Delhi, graced the occasion as the chief guest and Prof. Sudeshna Mazumdar Leighton, Chairperson, Governing Body of ANDC was the Guest of Honour. Prof. Balaram Pani emphasised on oneness and inclusivity, and talked about the ancient Indian teachings of *Vasudhaiva Kutumbakam* which means that the whole world is one family. He also said that any negative action of individuals will end up affecting or causing suffering to the whole world likewise any positive action will also contribute to the benefit of entire mankind. He also talked about how education system should promote towards building a character for *Vasudhaiva Kutumbakam*, root that was lost to be regained.

The conference was well attended by 180 delegates from various colleges across universities of India. Over 70 papers were presented in three parallel technical sessions. Prof. Ravi Toteja, Officiating Principal, ANDC, appreciated the dedicated efforts of the organising team in coming up with a theme which is so relevant as India assumes Presidency of G20 summit in his welcome address. The conference provided not only a great learning opportunity for students, research scholars, and faculty, but also provide them an opportunity to network with academicians and professionals in the field. The Keynote speaker of the conference, Prof. Sasmita Samanta, Honourable Vice Chancellor, KIIT (Deemed to be University) captivated the delegates with her spiritual knowledge and the learnings about the theory of oneness by sharing analysis from one of the books on Swami Vivekananda. Our eminent speakers Prof. Ajay Kumar Singh, Prof. Amit Kumar Singh, Prof. Madan Lal shared their thoughtful views on the main theme of the day, and talked about how we can achieve those ultimate goals, which included sustainable development, oneness concept and how can the concept of one earth one family, contribute to the one future? Professor W.K. Sarwade emphasised on the National Education Policy 2020, he talked about its challenges and explained its merits, such as inclusion of variety of vocational courses and option for different set of subjects such as language, NSS, and cultural studies etc., in addition to the opportunities and success scope it will bring in coming years. The former Principal of Acharya Narendra Dev College, Dr Savithri Singh was honoured for her exemplary services during the inaugural session.

During the plenary session, Eminent speakers Dr T. A. Shiware, Prof. M. Jayappa, Prof. Nagendra

Kumar Jha, Dr D. Chennappa, Dr R. K. Tailor elaborated on the challenges that fundamentally cause hindrance for the world in achieving oneness such as raging wars, lack of primary education and saturation of trade activities among few nations. They emphasised on the necessity of increasing inclusiveness and humanity along with improving knowledge of the whole human race for long term survival. They mentioned about the six A's which are required for improving wisdom of mankind which includes: Acquisition of skills, Application of knowledge, Awareness, Availability, Assessment, and Adaptability. They also suggested that we must understand the importance of Humanology as every human being in this world has an essential role for the world to work properly, and technology is the essential tool which is important for growth, even in the field of Commerce and Finance.

Prof. Ritu Sapra, chief guest of Valedictory session gave importance to the idea of "Live and Let Live", which should be the first thought behind every action of human beings. She talked about the new initiatives of ESG (Environmental Social Governance) companies and how they can help in achieving the goals of sustainable development. Being part of the same community and having the limited resources one needs to accept problems in life and take actions accordingly, to protect our mother earth and work as one family. During valedictory ceremony, the certificates were distributed for best papers of three technical sessions by Prof. Ritu Sapra. Dr Sandeep Kumar Goel, the Conference Convenor, expressed his deep gratitude towards eminent speakers, delegates, faculty, students, and support staff for successful completion of a momentous one-day national conference in our college's history.

7.2 Activities of Staff Council Committees

7.2.1 Annual Academic Events Committee

Convenor: Dr Sumit Sahni & Dr Vineet Kumar Singh (Botany)

Orientation Programme 2022

- After the COVID pandemic, it was the first orientation day which was conducted in the offline mode. The college organized the Orientation Programme from November 23-24, 2022 for the freshly admitted students to familiarize them with the college and enable them to interact with their teachers and classmates. This orientation day was also special in another aspect because this year, the University of Delhi adopted the National Education Policy NEP-2020.
- The programme was held in two phases: college- specific and department-specific orientation.
- The college-specific orientation programme was held on November 23, 2022 and was divided into the following four sessions:

Session-I Teaching Learning and Resources (TLR)

Session-II Research and Professional Practice (RP)

Session-III Theatre Society (Dhwani) & Talent Hunt

Session-IV Mentoring, Counselling, Outreach and Inclusivity

The College Orientation started with a welcome address by the principal. A detailed presentation was held to acquaint each student with the academic culture of the College, NEP-2020, Academic Bank of Credits (ABC), co-curricular and extra-curricular activities, attendance rules, internal assessment criteria, add-on courses, skill development through research and entrepreneurship,

grievance cell, Students Council, choice-based credit system, etc.

- The convenors of each college committee interacted with the students in their allotted sessions where they informed about the initiative and activities held by the committees every year.
- The department-specific orientation programme was held on November 24, 2022. In the departmental orientations, students interacted with their course teachers, lab staff and seniors. They were made aware of new options in SEC, VAC, GE and the options being floated by different departments. They were taken on tours of their department: staff room, labs and classrooms. They were told about the college and its general rules and regulations. Mentors (department teachers) were allotted to each student and the time table was also shared with them. All students took a pledge during these orientation programmes to ensure their name in the voting list and apply for a voter card.

Acharya Narendra Dev Memorial Lecture

- Acharya Narendra Dev Memorial Lecture was held on October 31, 2022. The programme began with the ceremonial lighting of the lamp followed by the Invocation of Goddess Saraswati and introduction to Acharya Narendra Deva. This year a bust of Acharya Narendra Deva Ji was installed in the college and was unveiled by the Chief Guest.
- Dr Sunil Mehru, Joint Director, Consortium for Educational Communication (CEC), University Grants Commission was the Honourable Chief Guest. He was welcomed by the principal. He talked about the revolutionary ideas of Acharya ji. He emphasized on the importance of education among the youth. He introduced the audience about the evolving problems the education system is facing and also suggested the solutions in ICT. He explained how the internet and social media can change the entire teaching learning process by Learning Management systems and four quadrant models. He emphasised on using MOOCs for learning. He was keen on future collaborations and projects between AND College and CEC for the development of online content for students. He appreciated the college for its NAAC grading and NIRF ranking.
- A quiz and sketch making competition was also organized on this day and the winners were awarded with cash prizes.
- The programme culminated with a Vote of Thanks followed by the National Anthem.

Annual Day Celebrations 2022

Convenors: Prof. Pooja Bhagat (Chemistry) and Prof. Seema Makhija (Zoology)

- The Annual Day of the college was organized on November 28, 2022. Mr Bhupesh Chaudhary, Director, Higher Education, was the Honourable Chief Guest and Prof Rup Lal, INSA, Senior Fellow, was the Guest of Honour. The former Chairman, Governing Body, Prof. Anwar Alam, and governing body members, Ms Lalita Agarwal and Ms Poonam graced the occasion with their presence.
- This was followed by the address of Mr Bhupesh Chaudhary. He encouraged the students with his thoughts and experiences. He gave a new insight to the students to think differently and excel in their fields.

- Prof. Rup Lal shared his views to encourage the students, teaching and non-teaching staff. Congratulated them for their efforts in taking the college to newer heights.
- Prof. Anwar Alam expressed his pride at ANDC's outstanding accomplishments and applauded everyone.
- The editors in chief of the college magazine, Suruchi Verma (English) and Suyash Bajpayee (Hindi) presented Insight 2022 to the guests and officiating Principal for release.
- Nishtha Awards were given to the following teaching members of the college who completed 25 years of regular service in the college:
 - 1. Prof. Sharanjit Kaur (Department of Computer Science)
 - 2. Dr Surinder Kaur (Department of Commerce)
- Nishtha Award was also given to Mr Sanjay Vohra a non-teaching member of the staff.
- Mr Tarush Bajra, B.Com. (H), III year was awarded the Best Student Silver Jubilee Award for the year 2022.
- Meritorious students were awarded for their accomplishments. The formal programme ended with a vote of thanks by Prof. Pooja Bhagat and singing of the National Anthem.

7.2.2 Annual Cultural Events Management Committee

Convenors: Dr Pragati Malik (Chemistry)

Dr Anita Thakur (Botany)

Dr Deo Datta (Mathematics)

Farewell 2023

On April 27, 2023, all departments of the college organized a farewell party for the outgoing batch.

Annual Cultural Festival 'LEIOTHRIX'

The College organized its annual cultural festival Leiothrixx 2023 on March 28-29, 2023. Shri Narendra Kumar Molparia (IAS of 1988 batch) was the Chief Guest on the occasion.

A total of 29 events witnessed participation from more than 200 teams with around 1000 students from various colleges from all around Delhi and NCR.

The events included quiz, Rap Battle, *Vatsala* (Slam Poetry), Laughing Club, Picture-O-Mania (photography contest), *Astitva* (Mime), *Infradiyat* (Monoact), Spell Bee, Battle of Bands, *Vyaktitva* (Debate), Offside (Gully Cricket), Pitch Perfect (Singing), The Punchline (Standup Comedy), Art-O-Blast (Graffiti), Mr and Ms Leiothrixx, Dance, *Sahir* (Street Play), *Nazmein* (Shayari), Futsal Forever (Football), Stylists Bonaza (Fashion Show), and Pitch Perfect (Solo Indian Singing), Aria (Solo Western Singing), Spirits in Motion (Duet Western Dance), Power Groover (Solo Western Dance), *Sepultura* (Band Battle), *Saajhedari* (Duet Indian Singing), Bassbox (Beet Boxing), *Kalaa Aangan* (Folk Dance), *Sangam* (Semi Classical Group Singing), *Nagma* (Instrumental Competition), Beatz Crew (Western

Group Dance Competition), *Laa-S-Yaa* (Classic Dance Solo Competition)

On Day one, a famous disc jockey conducted a splendid DJ night, which enthralled the gathered audience. On Day two, Karan Randhawa, a famous Punjabi singer and music director, stole the show with a captivating stage performance by singing some of his famous numbers.

Fresher's Welcome 2023

The Cultural Committee of the College organized the Fresher's Party on January 20, 2023 to welcome the first-year students.

Dandiya Evening

Inculcating a sense of culture and unity is the essence of any Indian festival and *Navratri* is a portrait of colour, action, music and togetherness. As nine days of non-stop fun, dance and festivities was round the corner, *Dandiya Evening* was celebrated on September 30, 2022 in the College Campus.

Independence Day 2022 (*Azadi ka Amrit Mahotsav*)

The 75th Independence Day was celebrated with great enthusiasm at Acharya Narendra Dev College, University of Delhi on August 15, 2022 in the front lawn of the College at 9:30 AM. The College was beautifully decorated with tricolour balloons, ribbons and rangoli. Ms Atishi, MLA Kalkaji was the Chief Guest and Mr Anil Kumar Saini, Chairman, Governing Body was the Guest of Honour for the day along with other Governing Body members. Around 300 teachers, students, and non-teaching staff were present on the day.

7.2.3 National Service Scheme (NSS)

Convenor: Dr Sunita Jetly (Biomedical Science)

National Service Scheme (NSS) is a scheme of the Ministry of Youth Affairs and Sports, Government of India, to encourage and involve young students to take part in various government led community service activities and programmes. It aims at inculcating a sense of selfless service amongst the youth with its motto 'Not Me But You'. NSS@ANDC is one of the many units of Delhi University NSS Centre. For more than a decade, NSS @ANDC has been the most popular students' society and remains active throughout the year.

The activities carried out during the past one year are summarised as follows:

- ***Van Mahotsav:*** In India, *Van Mahotsav* is celebrated every year in the first week of July. This festival was founded in 1950 to raise people's awareness of the importance of trees and forests in our lives and to protect the environment. NSS@ANDC celebrated *Van Mahotsav* in the College and villages. A medicinal plantation drive was carried out in the college premises. NSS volunteers participated in the plantation drive in Nanakheri and Badusarai villages on July 09-10, 2023 in collaboration with NSS NSUT cell and several other NSS units. Village visit was also organized in collaboration with UBA@ANDC.
- ***Beti Bachao, Beti Padhao:*** The campaign aims at ensuring girls are born, nurtured and educated

without discrimination to become empowered citizens of this country. Working with the same objective NSS@ANDC organized a ‘*Beti Bachao Beti Padhao*’ campaign. Several online competitions such as quiz competition, debate competition, poster making and an awareness rally were organized under the campaign which took place from July 09 - 15, 2023.

- **Stationery collection drive:** NSS@ANDC organized a stationery collection drive in collaboration with UBA@ANDC. The event was organized under the aegis of project *Vidipsa*. The collected stationery was then distributed to the needy children. The drive took place from July 11-27, 2023.
- **Cancer screening camp and awareness talk at Daulat Ram College:** A cancer screening camp was organized in the premises of Daulat Ram College, in which our programme officer Dr Sunita Jetly participated with our volunteers. An awareness lecture was also given by the eminent field experts present at the venue. The event took place on July 27, 2022.
- **Pinning of virtual flag under *Har Ghar Tiranga*:** Our volunteers, office bearers and faculty members pinned a virtual *tiranga* through the link provided by government of India. Everyone shared the certificate and a collage of the certificates was posted on the official Instagram handle on July 31, 2022.
- **15 days count down to the 76th Independence Day of India:** NSS@ANDC posted 15 reels on different themes pertaining to the freedom struggle of India. This marked the countdown of the 76th Independence Day. The topics included the importance of the national flag, history of the national flag, unsung warriors of the freedom struggle reel etc were posted from August 01-15, 2022.
- **Recruitment drive:** NSS@ANDC conducted a mid-session recruitment drive for the students who could not join NSS initially but want to serve the society and the nation. More than 50 students filled the registration form while 40 of them got selected. Results were announced on August 08, 2023.
- ***Tiranga Yatra* at North Campus:** A *Tiranga yatra* was held at the north campus of University of Delhi. Students and NSS volunteers from different colleges participated in the rally. NSS@ANDC also marked its presence in the yatra along with its volunteers. The event took place on August 10, 2022.
- **Independence Day:** NSS@ANDC celebrated the 76th Independence Day of the nation in a grand way. Several activities and events were organized in the online and offline mode. NSS volunteers participated in a *Tiranga* rally in collaboration with YSS foundation on August 14, 2022 at Noida. Our volunteers also performed a “*nukkad natak*” at the venue. On the day of independence, the national flag was hoisted in the college campus in the presence of Ms Atishi, MLA Kalkaji, our honorable Chief Guest. NSS volunteers gave a performance on the college campus too.

NSS volunteers took a pledge under the *Har Ghar Tiranga* initiative of the Government. of India. Online slogan writing, poster making and poetry competitions were organized on the occasion of Independence Day. An awareness poster or video about how to fold the national flag was posted. A flag collection drive was also organized.

Janmashtami: NSS@ANDC organized online activities on the occasion of *Shri Krishna Janmashtami*. The main attraction was painting and calligraphy competitions for which the

date was August 19, 2022. The results were announced on August 26 and 27, 2022 respectively.

- **Flash card making competition:** NSS@ANDC organized a flash card making competition on the occasion of World Water Week on August 23, 2022. Two people participated in the competition and the glimpse reel was posted on the official Instagram handle.
- **World Mosquito Day:** NSS@ANDC organized online activities on the occasion of World Mosquito Day on August 20, 2022. The activities involved poster making competition and online group discussion. The results of the poster making competition were announced on August 28, 2022. Volunteers from NSS joined the group discussion.
- **Photography Competition:** NSS@ANDC organized a photography competition on the occasion of World Photography Day on August 19, 2022. The results were announced on August 28, 2022.
- **Swachchhta Pakhwada:** NSS@ANDC observed *Swachchhta Pakhwada* from September 01-15, 2022 under the aegis of project '*Swachchhta Abhiyan*'. Cleanliness drives were carried out on the college campus. A slogan writing competition was also organized on September 05, 2022. NSS volunteers took an awareness pledge for cleanliness. They also carried out cleanliness drives at home.
- **Teachers' Day:** NSS@ANDC observed Teacher's Day on September 05, 2022. An observing poster and reel were posted on the official Instagram handle. An article writing competition was also organized. The result of the competition was announced on September 20, 2022
- **First Aid Box making competition:** NSS@ANDC organized a First Aid Box making competition on the occasion of World First Aid Day on September 10, 2022. The objective was to make students aware of the significance of first aid during an injury and train them to make and use a first aid box for any emergency.
- **Workshop on stem cell donation and blood cancer:** NSS@ANDC organized a blood cancer and stem cell donation camp in the College on September 14, 2022 to make students aware of the severity of the problems related to blood cancer and stem cell donation. The event was organized in collaboration with DKMSXBMST foundation. Many volunteers and faculty members donated their saliva for screening and grouping. This database would help people in need to get the stem cell of their respective group in case of emergency.
- **NSS Day:** The aim and working of India's National Service Scheme (popularly called as NSS) is to serve the country. NSS was formed on September 24, 1969 with an aim to "inculcate the social welfare thoughts in the students, and to provide service to the society without any prejudice." September 24 is celebrated as NSS Day, which is observed by NSS volunteers all over the country. NSS@ANDC also celebrated NSS day. Volunteers made this programme beautiful by decorating the boards, walls, and organizing various events held in the college. Volunteers also visited the village.
- **Cleanliness & Plantation Drive:** Trees are the foremost source for producing oxygen in the environment. They help to reduce the level of CO₂. We understand the value of trees and carry out plantation drives many times in a year. On October 02, 2022, NSS@ANDC successfully completed the event of tree plantation at Mirabai Park, Govindpuri. Volunteers also cleaned the parks.

- **Quiz Competition on Indian Air Force Day:** The Indian Air Force is the strength of the Indian Armed Forces. It was formed on October 08, so this day is observed as Air Force Day. NSS@ANDC organised a quiz competition on Indian Air Force Day on October 08, 2022 on the college campus in which many students participated and won prizes.
- **Clean India Campaign 2.0 on college campus:** Cleanliness is our right, and it is also essential, whether it is our home, public areas or workplaces. So, we also organized a Clean India Campaign in the college campus. NSS@ANDC started a cleanliness program to make the college clean and beautiful as part of the *Swachh Bharat Abhiyaan* and also circulated a message among the students for making our college premises and our country clean and green. Volunteers participated and cleaned the college campus and conducted various activities related to the Clean India Campaign 2.0. A Yamuna ghat cleanup drive was also organized.
- **Diwali Mela ‘Sahyog’:** On October 21, 2022, NSS@ANDC organized the ‘Sahyog’ Diwali Mela. As part of NSS’s commitment to selfless service and promoting goods made by differently able people, the event featured various stalls, fun games, and performances such as dancing and singing. However, the highlight of the event was the special children who were invited to participate. NSS volunteers spent time with them and worked to break down any barriers that made them feel different.
- **National Unity Day:** On October 31, 2022, volunteers of NSS@ANDC successfully organized a Run for Unity event on collaboration of NSUT. The volunteers actively participated in this unity run. As Unity Day is the commemoration of the birth anniversary of Sardar Vallabhbhai Patel, a discussion on him was also organized. An awareness pledge was also taken.
- **Centenary Run:** Volunteers from NSS@ANDC participated in the Centenary Run-on November 18, 2022 organized by the University of Delhi to commemorate 100 years of its establishment. It was inaugurated at the Sports Complex, North Campus. The University of Delhi completed its 100 years of academic excellence in the year of 2022. We are proud to be a part of this eminent and renowned institute. Volunteers from the NSS unit of Acharya Narendra Dev College participated in all the events and activities organized by the University to commemorate its centenary celebrations.
- **Cloth and Food Distribution Drive:** Food distribution to underprivileged children is a crucial initiative aimed at addressing the issue of hunger and malnutrition. Providing children with nutritious meals can help them lead healthier lives and help them to perform better in school. One such initiative involves distributing ‘dal chawal’, a popular Indian dish consisting of lentils and rice, to children every Thursday. The first such drive of this session was conducted on December 12, 2022. The volunteers of NSS@ANDC also distributed clothes in various slum areas to children as well as adults also.
- **Road Safety Week 2023:** From January 11-17, 2023, the volunteers of NSS@ANDC organized Road Safety Week in which volunteers as well as faculty members took a pledge and some online activities such as reel making competition, article writing competition etc, were organised.
- **Group Discussion on Mental Health under Project Wellness:** Under Project Wellness, the volunteers of NSS@ANDC conducted a group discussion on mental health in Botany Lawn on January 17, 2023. In this group discussion, the volunteers discussed various mental health issues and ways to overcome them it. Mental health includes emotional, psychological, and social wellbeing. It affects how we think, feel, and act.

- **Training on E- waste and its hazards:** E- waste refers to any unwanted electronic device or Cathode Ray Tube [CRT] and is classified as universal waste. NSS@ANDC organized sessions on hazards of E - waste on January 17, 2023 in collaboration with Eco Club *Paritantra*. The volunteers of NSS@ANDC participated and shared views on various hazards such as E- waste can be toxic, is not biodegradable and accumulates in the environment, in the soil, air, water and living things.
- **Republic Day Celebration:** Acharya Narendra Dev College celebrated Republic Day with a flag unfurling ceremony on January 26, 2023. NSS@ANDC celebrated Republic Day with an activity called 'Selfie with the Indian flag' with pride and honour. It aimed to encourage individuals to take pride in the Indian flag and show their respect towards it. The NSS volunteers paid tribute to all the freedom fighters and saluted them and spread awareness through a video on the Instagram and Twitter handle. The volunteers of NSS@ANDC also performed a *nukkad natak* on the topic '*Maulik Kartavya*'.
- **Plantation Drive in Mirabai Park:** NSS@ANDC organized a plantation drive on March 18, 2023 in the presence of Ms Atishi Singh, MLA (Kalkaji) and Minister of Education, Delhi. The main purpose of the plantation drive was to enhance the green cover and beauty of the park. The event was held in collaboration with Eco Club *Paritantra* and UBA@ANDC. Volunteers planted many plants and decided to take care of them regularly. They also discussed the significance of plantation drives.
- **Health Awareness Session on Fatty Liver in collaboration with Institute of Liver and Biliary Science:** NSS@ANDC organized a health awareness programme on April 19, 2023 in collaboration with the Institute of Liver and Biliary Science, New Delhi. In this programme NSS volunteers interacted with IIBS's staff. A doctor from ILBS made the volunteers aware about how to keep our liver and bile healthy.
- **AAROHI:** NSS@ANDC successfully organized and conducted its first edition of the Annual Fest *Aarohi*'23. The event began with lamp lighting followed by the inauguration of the annual newsletter *Surabhi*. The chief guest, Mr Krishan Kumar Gupta, first and founding volunteer of NSS talked about the past, present, and future of NSS. An inter NSS panel discussion, quiz competition and presentation were also held.
- **World Bicycle Day:** World Bicycle Day is an international observance recognized by the United Nations. It is celebrated annually on June 03 to promote the benefits of cycling and raise awareness about the importance of cycles as a sustainable mode of transportation. On June 03, 2023, NSS@ANDC observed World Bicycle Day and an online meeting followed by a paper presentation was held. The volunteers discussed the importance of bicycles in our day-to-day life. A reel was also posted on the official Instagram handle.
- **International Day of Yoga:** International Day of Yoga is celebrated every year on June 21, 2022, to promote the numerous benefits of practising yoga. The NSS unit of Acharya Narendra Dev College organised events like online workshop, Yoga on college campus and a 20 days series of 'Yogas and their benefits' on the social media handle. An online poster making competition was also conducted.

7.2.4 'Paritantra', Eco Club

Convenor: Dr Sunita Jetly (Biomedical Science)

The Eco -Club of the College '*Paritantra*' is an affirmation of environmental concern and adoption of healthy practices for sustainable development. The aim is to sensitize the society about the conservation and sustainability of the biotic as well as abiotic components of the environment. The Environment Society has taken up the task of creating awareness amongst the youth about the growing environmental concerns. Slowly but surely, *Paritantra* is evolving a mechanism for active, effective and target-oriented activities which strive to change the mindset of the people and make them more eco-friendly. It strategizes to spread awareness on environmental sustainability by organizing symposia / conclaves/debates/group discussions and other competitive events as well as communicating through multimedia approaches. In past years, concerted efforts have been made in the college to facilitate and safeguard a healthy and natural environment.

Activities & Awareness programs organized for the betterment of the environment (2022-23)

- **Van Mahotsav:** The Eco Club –“*Paritantra*” celebrated ‘*Van Mahotsav*’ in the college from July 01-07, 2022 to create awareness about the importance of forests and their conservation. Different activities were organized by the club like nature photography competition, quiz competition, poster making competition, village visit, and plantation drive. The event was successfully conducted with the help of Eco Club volunteers and office bearers.
- **World Water Week:** The Eco Club volunteers organized activities during World Water Week from August 23-28, 2022 in the college. The aim was to create awareness among the students about saving water and valuing every single drop of water. Different competitions were organized by the club. The event was successfully conducted with the help of Eco Club volunteers and office bearers under the guidance of faculty members.
- **Plastic Bottles Collection Drive:** The entire life cycle of disposable water bottles uses fossil fuels, contributes to global warming, and causes pollution. A plastic bottle collection drive was organized by the Eco Club volunteers from September 06 - 10, 2022 in the college. The aim of this drive was to collect all the plastic bottles so that they can be recycled and disposed of properly. Many students brought plastic bottles from their home as well.
- **Campus Bird Count:** The Eco club '*Paritantra*' organized Campus Bird Count on February 17, 2023. The aim was to take an estimate of the bird species present on the campus. Dr Rajesh Chaudhary and Dr Sarita Aggarwal were the teacher coordinator for the event. It was held to create awareness about the importance of birds in the eco system, food chain, local biodiversity and balance in nature. Further, the collected data can be used for research purposes by the institution.
- **Panel Discussion:** A panel discussion was organized by Eco Club members to mark the occasion of Environmental Education Day on February 26, 2023. The event held in the online mode was presided over by Dr Monica Misra, Dr Sunita Jetly, and Mr Abhay Pratap Singh. The discussion was very interactive as various environment related topics were discussed in the session.
- **E-waste awareness:** The Eco Club '*Paritantra*' organized awareness Drive on 'Hazards of Electronic, Plastic, Battery and Tyre Waste' in the college campus. The event was held on March 03, 2023 in the conference room. It was organized in collaboration with Allied Waste Solutions, an organization working for the better management and disposal of non-biodegradable waste.
- **Plantation Drive:** A plantation drive was joined by Eco Club '*Paritantra*' volunteers on March 17, 2023 in *Mira Bai* Park from 7:00 AM. Around 22 Eco Club volunteers joined the drive along

with the locals and planted many trees in the park. The Education Minister of Delhi, Ms Atishi, also joined the drive. Different patterns of rangoli were made by the students using the fallen leaves of trees.

- **Yamuna Cleaning Drive:** Our rivers play a huge role in maintaining the eco system on the Earth. Marking the occasion of Earth Day on April 22, 2023, volunteers of the Eco club '*Paritantra*' participated in a Cleanliness Drive on the banks of Yamuna River at Yamuna Ghat, Kalindi Kunj, Delhi. Numerous environment-related NGOs and student organizations came together to mark the occasion. The Heads of all the participating organizations in charge Dr Sunita Jetly and the Convenors of Eco Club shared their thoughts and guided the volunteers; they motivated all the volunteers to contribute their share towards preserving the environment.
- **Plantation Drive:** A plantation drive was held in the *Tughlakabad* Biodiversity Park on June 05, 2023 on the occasion of World Environment Day. Mr Abhay Pratap Singh guided the eco warriors in the plantation drive. Dr Vivek Chaudhary and CRPF Officers also joined in the plantation drive.

7.2.5 *Sashakt*

Convenor : Dr Anita Narang (Botany)

The ICCC (Internal college complaints committee) has been in place to address the complaints from students pertaining to sexual harassment issues. The institution gives a comfortable space to the girl students to come out and share their problems without any fear. The complaint is kept confidential and the committee meets to resolve the issue at the earliest. '*Sashakt*' is a society for women's empowerment which undertakes numerous initiatives to spread awareness in the college to address women related issues through street plays, organisation of various competitions like poster making, slogan writing etc.

The activities carried out during the past one year are summarised as follows:

- On June 22, 2022 an online workshop was held in collaboration with the Global Hunt Foundation. Ms Ankita Sukhwai of Global Hunt Foundation delivered a talk on Menstrual Health and Hygiene highlighting the importance of proper nutrition, care and hygiene during the menstrual cycle. Many students and faculty members joined the workshop on Google Meet.
- Sashakt celebrated the International Breastfeeding Week from August 01-07, 2022. An Inter college Reel Making competition was organized on this occasion.
- A workshop on 'Stand up Against Street Harassment' by Breakthrough Trust in partnership with Hollaback Foundation and L'Oréal Paris USA was organized on September 12, 2022 An interactive session was conducted by Mr Salman Alvi.
- The members of Sashakt attended a workshop on Gender Violence on September 21, 2022 organized by Busara Centre for Behavioural Economics and Breakthrough India to create solutions to make campuses safer spaces for both men and women.
- A workshop on Personality Development and Menstrual Hygiene was organized on September 26, 2022 in collaboration with the Enactus Society of ANDC, the Millions Minds Pvt. Ltd. And Whisper. More than 200 girl students of Acharya Narendra Dev College attended the talk delivered by Ms Yaashika Ranglani, a Corporate Trainer.

- Sashakt, The Womens' Empowerment Society of Acharya Narendra Dev College, University of Delhi in collaboration with Tarumitra, the Botanical Society of Acharya Narendra Dev College celebrated Breast Cancer Awareness month by organizing a talk 'Living in Sunshine' on October 12, 2022 which was delivered by Dr Inderjeet Kaur Sethi, retired Associate Professor SGTB Khalsa College, Delhi University and an active volunteer of Indian Cancer Society
- Sashakt, in collaboration with the Delhi Police Special Unit for Women and Children organized a self-defence Camp from November 21-30, 2022. It was attended by the female students of the college.
- The society celebrated International Day of Discrimination against Women on November 25, 2022. An online quiz was organized for teaching, non-teaching staff and students.
- On January 11, 2023 a workshop on Gender Sensitization was organized in collaboration with the NGO, Breakthrough. It was attended by a large number of ANDC students.
- In view of the National Girl Child Day on January 24, SASHAKT - the Women's Empowerment Society organised a talk by Mrs Harpreet Kaur on 'How To Be Financially, Mentally and Emotionally Independent'.
- A sanitary pad distribution drive was carried out in Nehru Camp, Govindpuri on January 24, 2023.
- A poster Making Competition on the topic 'Women Empowerment' was also held on the same day.
- To celebrate Self- Esteem Boost Month in February, SASHAKT carried out a series of events throughout the month.

Date	Activity
February 01-28, 2023	Slogan/ Affirmation/ Quotation
February 01, 2023	Reel Making Competition and Task- 1 under Love Yourself (A lil more)
February 08, 2023	Movie Screening and Task- 2 under Love Yourself (A lil more)
February 15, 2023	Task- 3 under Love Yourself (A lil more)
February 22, 2023	Task- 4 under Love Yourself (A lil more)
February 23, 2023	Quiz Competition and Debate Competition
February 27, 2023	Talk by Ms Saloni Sahni, Student Counsellor

- To celebrate International Women's Day in March, the society organised a talk on Gender Sensitization which was presided over by Ms Leena Zaveri, Advocate. She sensitised the ambassadors of the future towards gender neutrality and guided them about various women protection programmes at workplaces. The students discussed the Internal Complaint Committee rules and regulations and information about the POSH act.
- The society also held an inter college quiz competition - STRIVIA to make the younger generation aware of the women who made a difference to the world. The quiz was based on

national/ international unsung women and was centered around the theme of International Women's Day 2023 - DigitALL.

- Sashakt regularly sensitizes and updates information related to various of gender sensitive issues and events on its Facebook page and Insta handle, links for which are given below :
- [https://instagram.com/sashakt_andc?igshid=OGQ2MjdiOTE="](https://instagram.com/sashakt_andc?igshid=OGQ2MjdiOTE=) HYPERLINK
"https://instagram.com/sashakt_andc?igshid=OGQ2MjdiOTE=" MjdiOTE=
https://www.facebook.com/profile.php?id= HYPERLINK "https://www.facebook.com/profile.php?id=100084018048033" 100084018048033

Dhwani: Theatre – An enabling experience

Convenor: Dr Monica Misra (Zoology)

Dhwani - the Theatre Society allows the students to showcase their artistic talent and creative skills. Besides routine skits, street plays etc., *Dhwani* also nurtures personal growth by inculcating a sense of responsibility, trust and resourcefulness. It provides a platform for students to exhibit their acquired skill-set in the form of a mega Annual Theatre Production each year – the society has gained reputation for putting up the most professional of productions among the theatre circles.

In order to empower students with self-confidence and effective communication skills, the college believes in using theatre as an enabling medium. Theatre also allows one to hone skills to promote effective communication, dynamic leadership, critical thinking and decision-making, besides the ability to think creatively and act confidently through acting, improvisations, performances and scripting. The college has staged nine annual theatre productions - *Sau Mein Laga Dhaga*, '*Ye Daagh Ujaala*', '*Khul Ja Sim*', '*Spartacus - The Broken Shadows*', '*Kasauti- the Quest for Truth*', '*Wajood - Men Without Shadows*', '*Ajab Nagaria Gajab Tamasa*', '*Tughlaq*' and '*Leela*' since 2011 to give students a platform for showcasing their acting skills. The participants have realized that theatre has helped them in building their confidence and overcoming hesitations and stage-fear, thus acquiring proficiency and dexterity, developing their overall personality.

Some of the events organized by *Dhwani* - the Theatre Society is summarised below:

- ***Jashn-E-Azadi***

The first performance of this year's calendar was dedicated to the event of Independence Day "*Jashn-E-Azadi*". A self-written and self-directed short play, "फलसफा आज़ादी का" was showcased to highlight the hardships and the pain that common people of the country had to suffer due to the partition of the country in 1947 and how India has developed in the past 75 years.

- ***Acharya ka Aabhar***

"The influence of teachers extends beyond the classroom, well into the future". -F. Sionil Jose. On the occasion of Teacher's Day, a skit performance, titled- "*Guru*", was dedicated to the teachers of the college. The primary vision behind the performance was to express gratitude for unsung heroes, teachers, who go through all kinds of hardships to teach and mentor students and direct them towards their goals and ambitions.

- ***Street Play***

A street performance, "Proven Guilty" was organised on September 28, 2022 at Maulana Azad

Medical College (MAMC). It was conducted to focus on media trials conducted due to the spreading of fake news through social platforms such as Instagram, Facebook, etc.

On October 12, 2022, the same street play was showcased again in the college premises in front of Dhvani alumni, college faculty members and students.

- **Stage Play**

'एक-शर्त', the Annual Stage Play was performed at different colleges for both competitive and non-competitive performances. The play was an adaptation from the short story of Anton Chekov – 'The Bet'. The play was based on the idea, "To live anyhow is better than no life at all." It also explored the moral of how materialistic wealth ultimately means nothing. The first performance of the stage play was made on October 15, 2022 in the prelims round of Mood Indigo - IIT Bombay at Delhi Technological University (DTU). *Dhwani* qualified for the final round of Mood Indigo and performed its stage play at IIT Bombay.

- **Mime**

"Hunger" *Dhwani's* annual mime production, was based on the concept of how hunger grows stronger over a time period and makes us commit various sins. It also explored different forms of hunger as in lust, greed, etc. The mime was first performed at the Cultural Fest of IIT BHU on January 22, 2023. *Dhwani* secured the first position in the completion. Mood Indigo, the Cultural Fest of IIT Bombay (October 26-31, 2022) This year *Dhwani* had the privilege of being able to attend Asia's largest Cultural Fest – Mood Indigo IIT Bombay. The stage play – 'एक-शर्त' was performed in the final round of 'Third Bell'- the stage play completion. This opportunity gave the students a chance to explore different cultures and art styles in which other societies performed their plays and widened their approach towards theatre.

Kashi Yatra, the Cultural Fest of IIT BHU (January 18-24, 2023) gave *Dhwani* members an opportunity to learn about different responsibilities. All the theatre forms were performed at this cultural fest. On January 20-22, 2023 the Street Play, 'Proven Guilty', Stage Play– 'एक-शर्त', Mime – 'Hunger' was performed respectively.

- **Sahir '23**

During Leiothrixx, 2023, *Dhwani* conducted all its theatre competitions, like every year, *DHWANI* conducted its main event the street play competition- *SAHIR*. *Sahir* is conducted in two phases –prelims and finals. *Sahir*, being one of the most known competitions in the Delhi Collegiate Theatre Circuit, helped the members to gather many registrations. The prelims were conducted on March 22, 2023 in which a total of 31 teams performed their plays. The judges consulted each other for the selection of 10 teams. The finals were conducted on March 29, 2023 with a total of 10 competitive performances and one non-competitive performance. Prominent theatre artists from Asmita Theatre Group and Tarun Kohli judged the performances.

- **Theatre Gallery**

The culmination event for the year was the Annual Theatre Gallery – a special theatrical performance which is an immersive form of theatre where the audience and the performers share the same platform. Through this form of theatre, the audience indulges in the play. This year's theatre gallery was based on the topic 'Porn as Sex Education'. Along with this topic, two other topics were also selected - "Employment, Healthy, and Unhealthy Relations". The

process of setting up the gallery started on April 09, 2023 and ended on April 12, 2023. The first performance of the gallery was held on April 13, 2023. theatre gallery was flooded with a lot of students and faculty members. The price of the ticket was kept at Rs 40.

7.2.7 IT Committee

Convenor: Prof. Seema Makhija (Zoology)

Following items have been purchased in this year to upgrade IT facilities in the College:

- College has purchased 10 laptops of latest configurations (I5 and I7) for smooth running of research work conducted by the faculty in the college.
- 8 EPSON Projectors were purchased to equip latest functionality in the classrooms for the digital presentations.
- 12 Interactive Smart Panels were also purchased and installed in Committee room and all the undergraduate labs.
- Language Lab has been set up 26 High end Desktops with preinstalled latest software for running high end applications
- MS-Office packages have been purchased for smooth creation of documents, teaching and learnings.
- Double projector screening has been installed in the Seminar Hall for conducting talks, workshops, conferences etc.
- Campus and Research wing is enabled with Wi-Fi facility.
- RAM is upgraded in WEB centre for fast running of applications.
- Multifunctional Printing Machines have been installed for smooth functioning in administrative and Finance Departments.
- Wireless network system to supply wireless network connectivity to all the devices across college to students and faculty

Following technology advancement initiatives were taken on the website of the college by I.T. Committee:

- Regular updates to the college website were made w.r.t. updating content, creation of new pages and mobile responsive corrections as applicable.
- College launched the SmartProf ANDC, official college app to help increase engagement of all stakeholders (students, faculty, and non-teaching staff) for important notices and updates internal to college. The application which is available both on Google and Apple app stores contains a digital notice board that the college admin can customize to even a unique student, group of students, a particular year or all students level, thus giving flexibility to personalize the notices. Every message sent broadcasts a push notification to user device for increased engagement.
- The optional paper form module was further enhanced as per requirement of NEP framework to help take student preferences for optional papers for different paper types (SEC, VAC,

AEC, GE, DSE) in an organized and system driven manner with proper validations in place. The system eliminates human error and automates the tricky process as it involves multiple permutation/combination and the accompanying manual work to sort through Google form entries in the conventional process.

- The college also developed and used the I-Card module which was linked to the I-Card printing machine thus helping streamline the process from feeding of information to generation of I-Card. The I-Card module generates a dynamic PDF configured to the specifications of the printer to print an I-Card to the exact dimensions in college specific customized design. This has greatly helped college admin to independently generate I-Cards as and when required.
- The V-Lab initiative of the college was also deployed on the College cloud server and continues to operate from there. Further the student team developing and maintaining the module were given a restricted and secure access to the college cloud server for deployment of files w.r.t the V-Lab module.

The Language Admission Module continued to operate conducting the entire process from Applicant Registration, Application Submission, online 3-step Verification (by Dealing Assistant, Convenor & Principal), Online Fee Payment and generation of Language Student I-Card.

7.2.8 Library Committee

Convenor: Prof. Seema Gupta (Chemistry)

Webinar on “Quill Bot” on September 29, 2022

A webinar on “Quill Bot” an awareness program for One Stop Place for Making Writing Painless, was organized by the library on September 29, 2022 at 1.30 pm. All faculty members, research scholars, library and administrative staff and many other library professionals attended the event.

Mr Aman Jain from Quill Bot described the unique features of writing tools like paraphrasing, summarization, plagiarism check etc.

Book Exhibition

The college library organized a two-day Annual Book Exhibition from October 11-12, 2022 in the library for faculty members and students. Many renowned publishers and booksellers like Prentice Hall of India, Unilib Book Dist. Pvt. Ltd., Asian Book Centre, Narosa Publishing House, N.R.Book Distributor, Pearson Education, S.Chand & Co., Cambridge University Press, Orange Books International, Viva Books Pvt. Ltd., Orient Blackswan Pvt. Ltd., Panima Educational Agency participated in the exhibition and displayed their books in the library. The response of the students, faculty members and staff were overwhelming. Faculty members and students selected books for the library as well as for their personal use.

Library Development

- Total No. of books: 34242
- Magazines & Journals: 19
- 653 books added during the period July 2022 to June 2023

- Digital notice boards are installed in the upper & lower Reading Hall of the library for displaying library related information
- Login Id for accessing e-resource of Delhi University Library System & N-List have been created for those students who have requested.

7.2.9 Sports Committee

Convenor: Dr Chaman Singh (Mathematics)

Chief Coach: Dr Satyapal Singh (Physical Education)

Building upon the success of the previous year and with the continued support of the Principal, Prof. Ravi Toteja, the Sports Committee of the college and the enthusiastic response of the students managed to take sports in the college to a new high. Dr Satyapal Singh, the youngest *Dronacharya* Awardee and Chief Coach and Assistant Professor, Physical Education department of ANDC with the help of Dr Ranjit Kaur (Assistant Professor, Physical Education) and specific coaches (guest faculty members) train the students for enhancing sports activities in the college. To enhance the sports activities and for better coordination, the sports president and 13 team coordinators were made from among the students. In semester I Yoga Day was celebrated on June 21, 2023 in the college premises. Mass participation of students was seen and the staff of the college was also present during the event. In Semester II, the Fit India Movement and Sports League was organized. Fit India ANDC Sports Tournament-2022-23 was started in the month of January. It started with a flag march and oath taking ceremony requesting students to play with sportsman spirit. Prof. Ravi Toteja, officiating Principal, ANDC met every course student and wished them luck. Over 800 students- boys and girls of all the courses took part in different team events including 12 Cricket teams, 12 Football teams, 12 Basketball teams, 14 Volleyball teams and 15 Kabaddi teams, Badminton events, Athletics, Chess, and Carrom. The main purpose of the league was to encourage the zeal for sports among students and increase their physical fitness. It helped students in boosting up their confidence. B.Sc. (H) Physics won the Badminton Men's Singles and B.Com. (H) were the runners up. B.Sc. (H) Zoology won the Badminton Women's singles and B.Sc. (H) Zoology was the runner up. B.Sc. (H) Zoology won the Badminton men's Doubles and B.Sc. Life Sciences was the runner up. B.Sc. (H) Zoology won Badminton mixed doubles and B.Sc. (H) Zoology were the runner up. B.Sc. (H) Mathematics won the Basketball Men's and B.Sc. Physical Science with Chemistry were the runner up. B.Sc. (H) Biomedical Science won the Basketball Women's and B. Sc. (H) Electronics was the runner up. B.Sc. (H) Botany won the 1st position and the 2nd position was grabbed by B.Sc (H) Mathematics in chess men. B. Com. (H) won 1st position and 2nd position was grabbed by B.Sc. (H) Electronics in chess (women). B. Com (H) won the table tennis Men's Singles and B.Sc. (H) Zoology got the 2nd position. B. Com (H) won the Cricket Men's match and B.Sc. (Prog.) Electronics were the runner up. B. Sc. (Prog.) Electronics won the football men's match and B.Sc. (H) Physics were the runner up. B. Com (H) won the *kabaddi* men's match and B. Sc. (Prog.) Chemistry was the runner up. B.Sc. Physical Science (Chemistry) won the *kabaddi* women's match and B.Sc. (Prog.) Chemistry was the runner up. B.Sc. (H) Mathematics won the Volleyball Men's match and B. Com. (H) was the runner up. B.Sc. (H) Zoology won the volleyball women's match and B. Com. (H) Biomedical Science was the runner up. The Annual Sports Day was celebrated on February 17, 2023. It was started with the welcoming of the honourable chief guest Ms Prachi Tehlan, former captain of the Indian Netball Team and basketball player. The Officiating Principal, Prof. Ravi Toteja, welcomed her by giving her a planter. Students of the respective departments actively participated in the march past. The Principal, Prof. Ravi Toteja, enlightened the students with his views on the occasion. The

Ph.D. scholars and non-teaching staff of the college enthusiastically participated in the 100 m race. Students of various courses took part in 200x4 m relay race for boys and girls. At the prize distribution ceremony, all the winners and runners-up were presented with trophies and certificates by the chief guest and officiating Principal. B.Sc. (H) Zoology won the intra college champions trophy, whereas B. Com. (H) won the runner-up trophy. Ms Prachi Tehlan motivated the students to make a career in sports with her encouraging words.

7.2.10 Alumni Affairs Committee

Convenor: Dr Manisha Jain (Chemistry)

The Alumni Affairs Committee is focussed to improve the bonding between the alumni and the college through various means. The alumni database is being updated through google form <https://forms.gle/kPC1sqnKRBVrvXZu7>1 [HYPERLINK “https://forms.gle/kPC1sqnKRBVrvXZu7”](https://forms.gle/kPC1sqnKRBVrvXZu7)7, the link is available on the college webpage. Around 450+ new responses have been received, a large number being from the initial batches of ANDC.

An ANDC Alumni Facebook page

([https://www.facebook.com/profile.php?id=](https://www.facebook.com/profile.php?id=100090950926491) [HYPERLINK “https://www.facebook.com/profile.php?id=100090950926491\)has”100090950926491](https://www.facebook.com/profile.php?id=100090950926491) [https://chat.whatsapp.com/HSOpMVRYMQH0qGR2aLJpgg](https://www.facebook.com/profile.php?id=100090950926491)has”)has been created to connect the alumni with the college and each other. An alumni broadcasting WhatsApp group has been created to update the alumni about the announcements from the college (<a href=)0 [HYPERLINK “https://chat.whatsapp.com/HSOpMVRYMQH0qGR2aLJpgg”qGR](https://chat.whatsapp.com/HSOpMVRYMQH0qGR2aLJpgg) [HYPERLINK “https://chat.whatsapp.com/HSOpMVRYMQH0qGR2aLJpgg”2](https://chat.whatsapp.com/HSOpMVRYMQH0qGR2aLJpgg) [HYPERLINK “https://chat.whatsapp.com/HSOpMVRYMQH0qGR2aLJpgg”aLJpgg](https://chat.whatsapp.com/HSOpMVRYMQH0qGR2aLJpgg)).

A display of 48 distinguished ANDC Alumni from all courses have been prepared and displayed on the front wall of the college premises. 80 ANDC alumni visited the college to interact with the NAAC peer team on June 27, 2023. A large number of the visiting alumni were from the initial batches.

This year the Alumni Association of the college has been formally registered following legal procedures under the name ‘Andc Alumni Network’.

7.2.11 The Photographic Society, Picfie

Convenor: Dr Rajesh Chaudhary (Biomedical Science)

- Organized a photo walk to historical sites on September 14, 2022.
- During the annual cultural festival Leiothrixx 2023 on March 28-29, 2023 organized a photography competition and exhibition.
- Also organized a photo walk to historical sites on March 25, 2023.

7.2.12 Garden Committee

Convenor: Dr Manisha Jain (Chemistry)

The Garden Committee in coordination with the gardeners of ANDC has worked diligently over the whole session to improve the aesthetic beauty of the green spaces in the college premises especially after the pandemic period. The front lawns have been covered with iron grills on all sides and the lawn gates have been replaced with taller ones. The other lawns -Principal office lawn, Botany lawn and Zoology block lawns have been installed with bamboo boundaries. Bamboo planters with trellis have been installed in the Zoology block, providing a partition between the washroom area and the lawn. A self-dripping vertical garden has been installed in the walkway from Gate 2 of the college. Ten reinforced cement concrete (RCC) four-seater circular garden benches were installed in the lawns to provide sitting space in the shade. The area in front of the new BMS lab has been covered with paver blocks and fitted with a concrete bench on three sides to provide a sitting area to students under the shades of trees. All the lawns have been revived with their grass cover. The flower beds in all the lawns have been provided with brick boundaries. New Perennial plants have been planted in all lawns and flower pots. Some old trees in the college have been marked with QR codes for visitors to seek information about them.

ANDC bagged the third prize in the Hanging Baskets (perennials) Category at the Annual Flower Show 2023 of the University of Delhi on March 02, 2023 and ANDC gardener, Mr Virender, was awarded the Best Gardener Award. In the same event, ANDC students bagged the first position in Selfie Point Competition.

7.2.13 Dhun (Music Society)

Convenor: Prof. Anju Agrawal (Electronics)

Some of the major events organized by Dhun, the Music Society of Acharya Narendra Dev College during 2022-2023 is summarised below:

- Thomso 22' IIT Roorkee Annual Festival: *Dhun* performed at Thomso Annual Festival, 22 at IIT Roorkee. It performed in the solo, duet and band events. At Thomso 22' *Dhun* showcased its talent in both Indian and Western music.
- Diwali Mela 'Sahyog': *Dhun* performed at Diwali Mela 'Sahyog' for especially abled Down Syndrome affected children. The uplifting beats, lyrics and vibes had the audience swinging on their feet with a big and beautiful smile on their faces.
- Teachers Day 2022: performed on Teacher's Day like every year. The members made the day special for the teachers and mentors in their respective departmental celebrations.
- Mata Sundri Festival performance: *Dhun's* President performed at Mata Sundri College, Delhi University, on an express invitation to their annual fest for the Second year in a row, much to the awe of the audience!!
- Shyamlal College Open Mic First prize: *Dhun's* President bagged the first prize in the Open Mic Contest held at Shyam Lal College, Delhi University, for his exhilarating vocals and showmanship.
- Leiothrixx 2023: *Dhun* performed as the in-house band at Leiothrixx'23 and contained to build

its legacy year on year with stunning instrumentals and breathtaking vocals. The audience was treated to a beautiful hour of thumping beats and uplifting head swinging music. From hard hitting guitar riffs to heart moving lyrics and blissful tunes, the atmosphere was electric.

7.2.14 *Maayra* (Dance Society)

Convenor: Dr Monica Mishra (Zoology)

Maayra, the Dance Society of Acharya Narendra Dev College, is a vibrant community of dancers, choreographers, and enthusiasts united by their passion for dance.

Orientation performance, November 23, 2022, the session started with a beautiful opening performance displaying an array of different dance forms to the young dance enthusiasts with the aim of inspiring the freshers in joining the dance society. *Maayra's*.

Kashi Yatra - IIT-BHU – On January 20-22, 2023, *Maayra's* participated in the group dance competition organized by the team of *Kaashi Yatra*, the annual fest of IIT BHU.

Leiothrixx– March 28, 2023, at the annual cultural fest of ANDC -Leiothrixx, a team of dancers from *Maayra* gave their performance.

NAAC Visit – June 28, 2023, the students of *Maayra* showcased their talent to the NAAC Peer Team. The choreography was a spectacular celebration of India's cultural diversity.

7.2.15 *TARK* (Debating Society)

Convenor: Dr Yasheshwar (Botany)

TARK, the Debating society, has been one of the most active Societies of the college. Its name has been derived from the initial letters of the words: Think, Argue, Refute and Kindle. *TARK* has achieved huge success with its members having won various prizes at the college as well as national level.

On February 09, 2023, *TARK* organised the Annual Fresher's Debate, **AAGMAN**.two Workshops and a bilingual debate competition were organised on the occasion. The first workshop was on storytelling and poetry by Suryakant Yadav (Assistant Professor, Kamla Nehru College, DU) and the second workshop was on Voice Modulation by Suraj Pratap Singh (Theatre facilitator, University of Delhi). *TARK* organised रचनोत्सव on the occasion of विश्व हिंदी दिवस, under which various events were conducted. The events were वाद -विवाद on the topic 'वैश्विक हिंदी की दशा और दिशा', काव्यवाचन प्रतियोगिता and कहानीवाचन प्रतियोगिता. Dr Sunil Vipul gave a talk on 'वैश्विक हिंदी और बाजार'.

- On November 26, 2022, *TARK* organised a lecture on the occasion of Constitution Day by *TARK* Convenor Dr Yasheshwar on the topic 'Understanding the Right to Equality through Landmark Cases'.
- On September 30, 2022, *TARK* organised a special movie screening of '*Thappad*' followed by an open house discussion.

- On September 14, 2022, an open mic was organised on the occasion of *Hindi Diwas*.
- On September 05, 2022, *TARK* organised a Poetry Session on the occasion of Teacher's Day, which was attended by many faculty members and students.

7.2.16 SPIC MACAY

Convenor: Dr Shalu Mahajan (Commerce)

Under the aegis of SPIC MACAY *Virasat* series, a *Sarod* recital programme was held at Acharya Narendra Dev College (Delhi University) on January 06, 2023. The event was organised under the guidance of Dr Shalu Mahajan and the support of the students of SPIC MACAY society. The event was graced by the venerable sarod player Pandit Partho Sarothy. He was accompanied by Pandit Vinod Lele on *tabla*. The opportunity to listen to the finest *rāgas* and *surs* made the students present in the hall excited. After a mesmerizing performance, Pandit Partho Sarothy interacted with the students who were equally eager to engage. The event was conducted by student coordinators, Pragya Jha, and Anushka Tomar.

7.2.17 Enactus

Convenor: Dr Surinder Kaur

Enactus is a global non-profit organization committed to inspiring students to take entrepreneurial initiatives aimed at enhancing the well-being of others. Enactus members utilize their creativity and entrepreneurial skills to address critical global issues, empower communities, and enhance livelihoods through a diverse range of innovative ideas. This organization operates across 33 countries, forming a vast network dedicated to improving the world and securing a better future for generations to come. By leveraging their business expertise, Enactus teams focus on resolving prevalent societal challenges. Recognizing the importance of Enactus in nurturing informed and responsible citizens, our college established the Enactus – ANDC chapter in the academic year 2022-23. Drawing inspiration from other institutions and the needs of contemporary societies, our Enactus society is dedicated to sustainable development and strives to create a brighter future through various on-going projects. Our on-going projects are:

Project KAAGAZ

In this initiative, our primary focus is on the reuse of waste paper and advocating for sustainability by gathering discarded paper and transforming it into environmentally friendly products through recycling. So far, we have conducted a total of nine successful campaigns, including paper donation and market research efforts. The goal of the paper donation campaign was to collect a significant quantity of paper to support charitable organizations and individuals in need. Meanwhile, the purpose of the market research drives was to evaluate the market feasibility of various techniques and the accessibility of tools and technologies for converting waste paper into new, usable paper.

Project ABHYUDAY

To impart fundamental understanding of the digital realm, financial management, and health

awareness to children affiliated with non-governmental organizations (NGOs), enabling them to attain independence and make informed decisions for themselves and their families, we meticulously assessed various NGOs. Our evaluation considered factors such as their past achievements, the efficacy of their methods, and their capacity to establish enduring initiatives. We organized multiple visits to these NGOs, conducting educational sessions on topics like menstrual hygiene and financial literacy for children, women, and the elderly. Furthermore, we plan to host a session on mental health awareness, facilitated by psychologists, to further support the community.

Other activities of the society are:

Orientation

Enactus orientation was held on August 16, 2022 in college campus and an introduction about the working and management of Enactus was given to the freshers by Heads of Enactus.

Meet and Greet

On September 12, 2022, a meet and greet was held by Enactus in the campus to familiarise the freshers about work of the society. Various games were organised and students across all streams of the college participated with enthusiasm.

Seminar

A seminar was organised on “Personality Development and Menstrual Hygiene” in the college premises in collaboration with *Sashakt* - The women empowering society of our college on September 26, 2022. Ms Yashika Singh, a corporate trainer was the resource person.

Daan Utsav

A cloth donation drive was held in the campus from October 02-08, 2022 and students were made aware about the benefits of donating clothes.

Visit to an old age home

On October 17, 2022, the society visited an old age home, *Panchvati*. The team consisted of 12 volunteers. The team interacted and had a deep conversation with the residents. It was a heart-warming experience for each one of us.

7.3 Departmental Activities

Department of Biomedical Science

TIC: Dr Archna Pandey

- The Department of Biomedical Science organized a seminar by Dr Debasis Dash, Chief Scientist, CSIR-IGIB on 'Quality Control of Variant Peptides in Proteogenomics-Catching the (Un)Usual Suspects' on July 04, 2023.
- National hands-on workshop on 'PCR for Diagnostics and Gene Expression Analyses' on September 27-29, 2022. At workshop, hands-on demonstration was given to the participants on three different widely used forms of PCR in the field of diagnostics i.e., Conventional PCR, LAMP assay and quantitative real time PCR.
- A hands-on workshop was organized by the department on 'Superheroes against superbugs' on October 11, 2022.
- Hands-on training workshop organized on "Phage Biology - Discovery and Analysis and Webinars on Bacteriophage Therapy" at Acharya Narendra Dev College on January 20-25, 2023. It was organised in collaboration with Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET), and Delhi School of Skill Enhancement and Entrepreneurship Development and intellectual partner - Society for Bacteriophage Research and Therapy
- Career Counselling Series: 'Panel Discussion with Alumni' was organised by the department on April 11, 2023. The event was presided by alumni of the Department of Biomedical Science - Mr Harshit Arora, Mr Alok Anand, Mr Mrinal Chawla, Mr Animesh Kar, Dr Pawan Mehrotra, and Ms Sonanjali Aneja. A total of 105 students registered for the event.
- On April 12, 2023, a one-day hands-on-workshop on Forensics Science was organized by the department. A total of 142 participants had registered. The speakers for the event were Mr Subham Gautam (Cyber forensic strategist, Psyberbull), Ms Afreen Tarannum (SFIS, India), Dr Anil Kaura (Fingerprint master, Orient Sourcing Solutions).
- On April 13, 2023, the Department organized a talk by Dr Sunita Jetly (BMS, ANDC) followed by the release of BioMer (Annual Departmental magazine - Biomedical Reporter) on the topic **Cathexis 2023: Reproductive Health**.

Department of Botany

TIC: Dr Geetika Kalra

- 'Tarumitra' the Botanical Society of Acharya Narendra Dev College, organized the talk by Dr Sumer Pal Singh, Principal Scientist, Division of Genetics, ICAR-IARI on March 23, 2023 on 'Millets: Our National Pride Vigour'.

Department of Chemistry

TIC: Dr Vikrant Kumar Attri

- 'Synergia', the annual fest was successfully organized by *Abhikriya*, (The Chemical Society) Department of Chemistry, Acharya Narendra Dev College on March 24, 2023. The guests of the event were Dr Vivek Mishra (Assistant Professor) and Dr Ranjan Patra (Assistant Professor), Amity Institute of Click Chemistry Research and Studies, Amity University, Noida. They

delivered a talk entitled 'Exploring the world of Molecular Chemistry and its Future Prospects' and enlightened the students by introducing them to the interesting world of click Chemistry and discussed the opportunities available in pharmaceutical, semiconductor industries in India as well as abroad. Another intriguing talk was delivered by Dr Meena Bisht (Assistant Professor), Department of Chemistry, Sri Venkateswara College, University of Delhi and an alumna of Acharya Narendra Dev College. She presented her work on 'Improving the Activity and Stability of Proteins/enzymes in the presence of Green Solvents'. Various fun events such as Abhiquest (the quiz competition), *Abhivhyakti* (the poster making competition), *Rasayan Mimansa* (the paper presentation competition), Chem Expedition (the treasure hunt) were organized wherein students from other colleges also participated with great enthusiasm. The event concluded with the announcement of the names of the winners of the competitions by felicitating them with cash prizes and certificates.

- One day Workshops on Safer and Greener Chemistry lab was organised at:
 - Govt. Senior Secondary School, Sec-7, Faridabad on January 28, 2023
 - Govt. Girls Senior Secondary School, Sec-8, Faridabad on January, 2023
 - Govt. Model Senior Secondary School Sarai Khwaja , Faridabad on January 30, 2023
 - Govt. Model Sanskriti Senior Secondary School, Mewla Maharajpur , Faridabad on January 30, 2023
 - Deepalaya School, Kalkaji Ext, A-14, Govindpuri, on January 31, 2023
- One day Workshop on Learning Science through Experiments was organised on December 07, 2022
- One day Workshop on Quantitative Microbial Ecology: Opportunities and Way Ahead was organised on February 04, 2023, Acharya Narendra Dev College
- National Workshop on Skill Enhancement of Non-teaching Staff was held from July 13-20, 2022, Acharya Narendra Dev College
- Workshop on Career and Skill Enhancement to Non-teaching Staff was organised during September 15-21, 2022, Acharya Narendra Dev College.
- A three-month Training program "Value Added Course in Research Methodology" conducted by IIT Delhi and Acharya Narendra Dev College for session 2022-2023.
- Excursion: Academic tour in AICCRS, September 23, 2022

Department of Commerce

TIC: Dr Surinder Kaur

- On September 13, 2022, Department of Commerce and IQAC organized a one-day workshop by Prof. Sarita Kumar, on 'How to Write Research Papers' at Acharya Narendra Dev College,

University of Delhi, New Delhi.

- The Department organized a national workshop on 'Career and Skill Enhancement for Non-teaching Staff', from September 15-21, 2022.
- On February 01, 2023, a seminar was organized on 'Accounting Standards', along with IQAC.
- On February 07, 2023, Investor Awareness Programme was organized by the department on 'Financial Empowerment through Wealth Creation' by Shri Suryakant Sharma, Sr. Consultant-AMFI, Chartered Associate IIBF and Former DGM-Securities and Exchange Board of India (SEBI) under the aegis of IQAC in Collaboration with Association of Mutual Funds in India (AMFI).
- A one-day national conference on 'One Earth, One Family, One Future' was organized by the Department of Commerce, on April 03, 2023 under the aegis of IQAC.
- On April 06, 2023, a seminar on 'MBA as a Career Option' by Zahid Hussain, Mentor, Career Launcher, was organized by the Department of Commerce and Career Launcher.

Department of Computer Science

TIC: Dr Preeti Marwaha

- Organized 'MATLAB Workshop' for faculty members on October 12 and 17, 2022.
- On April 11, 2023, a one-day technical talk was organized on 'Blockchain in Education' by Dr Ihtiram Raza Khan, Associate Professor, Department of Computer Science and Engineering, Jamia Hamdard University.

Department of Electronics

TIC: Dr Vishal Dhingra

The following excursion / educational trips were organized by the Department of Electronics:

- Educational visit to Nehru Planetarium and PM Museum (Pradhanmantri Sangrahalaya), New Delhi, September 24, 2022.
- One day excursion to the Bureau of Indian Standards, New Delhi on April 07, 2023.
- Educational visit to National Science Centre on February 11, 2023.

Department of Mathematics

TIC: Ms Anupama Rastogi

The Department of Mathematics, Acharya Narendra Dev College, organized its Departmental Fest 'π RATES' under the "Matrix" society of the department on March 22, 2023. A talk on applications of Mathematics in managing the functioning of airlines commercially was delivered by Prof. Amit Bardhan. After the talk, the students of B.Sc. (H) Mathematics organized various intra college activities

like logo for Matrix society, Poster Making Competition, Treasure Hunt, Quiz, and Talent Hunt (Mr and Ms 'πRATES').

Department of Physics

TIC: Prof. Mamta Bhatia

- 10 students of B.Sc. (H) Physics, III Year with faculty member Dr Ambika visited Inter University Accelerator Centre (IUAC, New Delhi) on February 28, 2023 on National Science Day. This experience gave an exposure to young students of Physics to accelerator-based research at the national and international level.
- On March 21, 2023 the Department organized its annual fest 'Nebula 2023' under the aegis of 'Physentropy', the Physics Society and DBT, New Delhi. The fest included various activities like quiz, Bohr Ring Dance' and Traeger Hunt. The main attraction of this fest was the 'Bohr Ring Dance', a new concept introduced by the students. In this event, a particular Physics related phenomenon was presented either in the form of dance (expression) or in terms of song.
- A talk was delivered by Dr R.K. Kotnala on the topic 'Hydroelectric Cell the Best Option to Do Away Global Warming and Green Hydrogen Generation by Water Splitting' on March 21, 2023.

Department of Zoology

TIC: Prof. Seema Makhija

- The Department organized an online workshop on 'IPR- Patents & Designs filing' in association with Rajiv Gandhi National Institute for Intellectual Property on August 27, 2022. Mr Kumar Raju was the resource person.
- The Department of Zoology organized a one-day educational trip to National Zoological Park, New Delhi on September 29, 2022. 35 Students of B.Sc. (H) Zoology, III Year along with 06 staff members visited the park to observe the behaviour of animals for their Animal Behaviour and Chronobiology paper. Delhi Zoological Park is home to a large species of birds and multiple exceptional animals such as white tiger, royal Bengal tiger, gaur, Jaguar, rhinoceros, elephants, Asiatic lion and lion-tailed monkey. This trip was an amazing learning experience for the students to understand wildlife and conservation efforts.
- On April 25, 2023, Dr Komal Kamra delivered an enchanting talk on 'Interactive Session on Let's Think Science'. She directly interacted with the students and the students kept listening to her carefully. The talk concluded with a motivation for the students where she explained the qualities of a good researcher: interest, inquisitiveness, commitment, excelling, knowledge, recognition, scholarly approach and integration.
- Dr Ved Prakash, guest speaker delivered an enchanting talk on 'Assisted Reproductive Techniques' on November 01, 2022. He explained the mechanism of IVF by showing his laboratory. The talk was followed by a brief interactive session where Dr Ved Prakash answered

the students' queries with respect to his talk and other scientific phenomena of IVF.

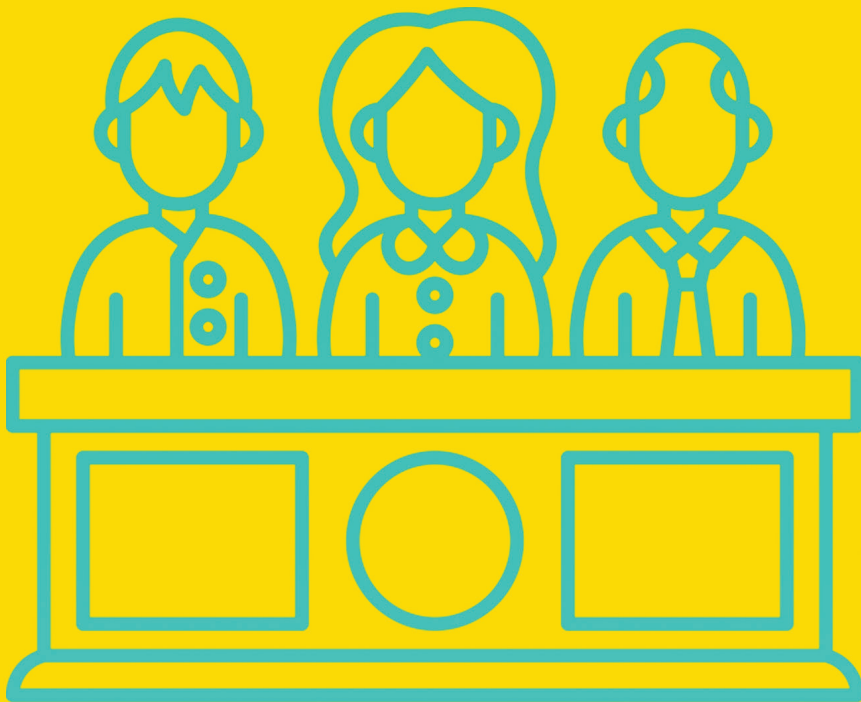
- On November 07-11, 2022 the Department of Zoology, Acharya Narendra Dev College, DU with Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), PG Department of Zoology, Magadh University (MU), Ramjas College (DU), Sri Venkateswara College (DU), Sri Guru Tegh Bahadur Khalsa College (DU), C.M.P. College (AU), Bhaskaracharya College of Applied Sciences, Shivaji College, Miranda House, KIIT Bhubenswar, Devbhoomi, U.K., Kolhan University, Jharkhand, PhiXgen Pvt. Ltd., Gurugram and College of Commerce, Arts and Science, Patna, organized 7th International Conference of National Soil Contamination and Research (INSCR 2022) Modulating the Environment with Microbes.

7.4 Interdisciplinary Workshops

- Department of Biomedical Science, Botany, and Zoology organized National workshop on skill enhancement of non-teaching staff (NWSSENS-2022) on July 13-20, 2023. The workshop was designed for the holistic development of the non-teaching staff, and covered topics like financial management, tax-filing, stock-keeping, computational skills, operation of GeM portal, basic laboratory skills for safe handling and usage of scientific equipment ranging from pH meters, electrophoresis units, centrifuges, micro-pipettes, microscopes to spectrophotometers. (for details see section 6.2.7.2.3)
- On October 11, 2022, a hands-on workshop on Anti-Microbial Resistance and foldscope was organised under the aegis of DBT Star Scheme by the Department of Botany, Zoology, and Biomedical Science. Dr Anupma Harshal W., Superheroes against Superbugs Fellow, Woman in STEM was the resource person. The students also learnt how to make and use foldscope (for details see section 6.2.7.2.4)
- A collaborative Outreach Workshop on Cell and Molecular Biology Techniques was organized by the Department of Biomedical Science, Botany, and Zoology for the undergraduate students of G.D. Goenka University on October 12-13, 2022. (for details see section 6.2.9.1.3)
- A One-week Revisit Bootcamp 1.1 for V-Lab Development was organized by the Department of Computer Science, Zoology, and Botany on January 09-14, 2023. This workshop was organized for the first and second year students of all streams of the college. The bootcamp was mainly for those students who showed interest in being part of the V-Lab team, and for developing V-labs of their respective courses in future. This workshop exemplified the idea of Peer-to-Peer Learning. (for details see section 6.2.1.4.1.1)
- A one-day workshop on Quantitative Microbial Ecology: Opportunities and Ways Ahead was organized on February 04, 2023. It was a collaborative workshop organized by Department of Zoology, Biomedical Science, and Botany in collaboration with Gargi College, Kirori Mal College, ISME, and PhiXgen Pvt. Ltd. (for details see section 6.2.7.1)
- On April 24-28, 2023, the Department of Computer Science, Botany, and Zoology organized a five-day Bootcamp on V-Lab Development 2.2 and V-Lab Development (Building Blocks of Simulator under the aegis of DBT STAR College Scheme. These workshops were organized for the first and second year students of all streams of the college. The resource persons were Vaibhav Thapliyal, Shahnawaz Khan, and Pankaj Sahu final year students of B.Sc. (H) Physics,

B.Sc. (H) Computer Science, and B.Sc. (Prog.) Physical Sciences with Computer Science respectively of the college. (For details see section 6.2.1.4.1.2

8. *Internal Complaints Committee*



8. INTERNAL COMPLAINTS COMMITTEE

The college has an Internal Complaints Committee (ICC) with the following composition:

1. Dr Anita Narang, Associate Professor (Botany) – Presiding Officer
2. Dr Ranjeet Singh, Associate Professor (Physics)
3. Dr Geetika Kalra, Associate Professor (Botany)
4. Ms Sangeeta Goswami, Laboratory Assistant (Botany)
5. Mr Vikram Kumar (Office Attendant)
6. Mr Saarthak Kumar (B.Sc. (H) Biomedical Science, II Year)
7. Ms Anushka (B.Sc. (H) Biomedical Science, II Year)
8. Ms Swati Maurya (Research Scholar)
9. Ms Leena Zaveri (External Member)

The ICC Presiding Officer is also the Convener of the Women's Development Cell of the College – *Sashakt* – the Society for Women's Empowerment.

Status Report of ICC as on June 2023

S. No.		Number of Cases*
1.	No. of Complaints of sexual harassment received in the year	00
2.	Number of complaints disposed of during the year	00
3.	Number of cases pending for more than 90 days	NA
4.	Number of workshops on awareness programs against sexual harassment conducted during the year	12
5.	Workshop cum interactive session on sexual harassment and women's issues	07
6.	Awareness program on safety and gender equality	05
7.	Methods adopted in Awareness programs	Reel making competition, Poster making competition, Debate, Quiz Competition, Movie screening, Self-defense training

9. Institutional Biosafety Committee (IBSC)



9. INSTITUTIONAL BIOSAFETY COMMITTEE (IBSC)

In accordance with the Notification of the Ministry and Forests vide Gazette Notification no. GSR 1037(E) dated December 12, 1989 notified under the E.P. act 1986, the Department of Biotechnology (DBT) has evolved the “Regulations and Guidelines on Biosafety of recombinant DNA Research and Bio containment, 2017” for achieving personal and environmental safety in then use of genetically manipulated organisms in research, manufacture and applications. The constitution of the Institutional Biosafety committee (IBSC) is mandatory in R&D Centers at the institutions/universities/industries/ any other organization which intends to carry out or are engaged in research activities involving genetic manipulation of genetic materials, microorganisms, plants and materials.

All the ongoing projects (extramural and intramural) in the college are assessed, reviewed and cleared by this committee. The project is presented in the prescribed format to the committee for its review. Project investigator appraises the committee on the nature of the experiments and the available lab facilities and safety measures. The IBSC of ANDC is constituted as per DBT, Government of India guidelines and its composition is as follows:

List of IBSC Members:

S. No.	Committee Composition	Name and affiliation
1.	Chairman	Prof. Ravi Toteja, Officiating Principal, Acharya Narendra Dev College
2.	DBT Nominee	Dr Asif Mohammad, Group leader and Scientist, Parasite Cell Biology Group, ICGB, New Delhi
3.	Member Secretary	Prof. Urmi Bajpai, Department of Biomedical Science, Acharya Narendra Dev College
4.	Outside Experts	Dr Geetha Vani Rayasam, Scientist H, Council of Scientific and Industrial Research (CSIR)
		Prof. Rama Chaudhry, Dean (Research), Head, Department of Microbiology, All India Institute of Medical Sciences, New Delhi
5.	Biosafety Officer	Dr Mohammad Faruq, Principal Scientist, CSIR-Institute of Genomics and Integrative Biology (IGIB)
6.	Internal Experts	Prof. Monisha Khanna Kapur, Department of Zoology, Acharya Narendra Dev College
		Prof. Seema Makhija Department of Zoology, Acharya Narendra Dev College
		Dr Sunita Jetly, Department of Biomedical Science, Acharya Narendra Dev College

10. Foreign Language Courses



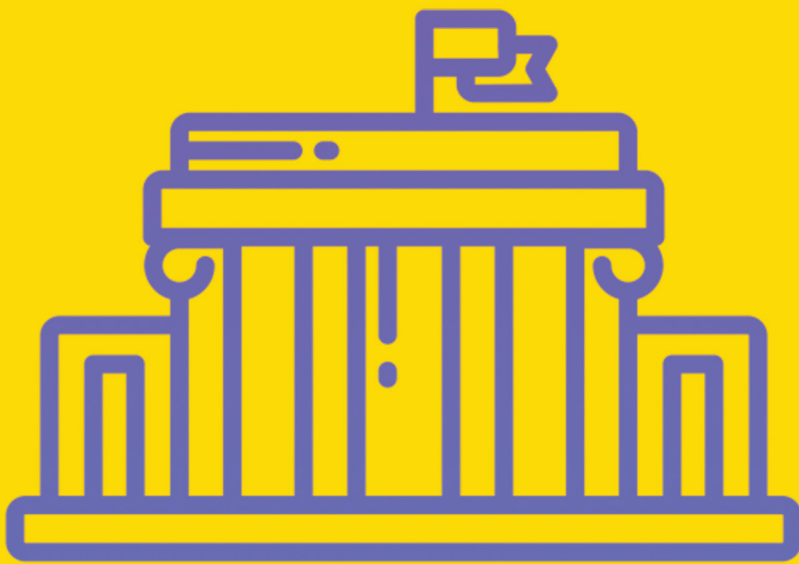
10. FOREIGN LANGUAGE COURSES

Convenor: Dr Geetika Kalra

The foreign language center of the college offers one-year part time certificate, diploma and advanced diploma courses in French, German, Spanish and Russian. This year online admissions were undertaken in the wake of ongoing pandemic and following courses are running in the current academic session.

S. No.	Course	Number of students admitted
1.	Certificate in German	12
2.	Certificate in Spanish	14
3.	Certificate in French	13
4.	Diploma in Spanish	19
5.	Advance Diploma in Spanish	17

11. College Development



11. COLLEGE DEVELOPMENT

11.1 Financial grants received

The college received following grants from Directorate of Higher Education, GNCTD in 2022-2023:

S. No.	Scheme	Amount (INR)
1.	GIA salary	45,96,23,532.00
2.	GIA other than salary	1,69,93.132.00



12. Career Counselling and Placement Cell



12 . CAREER COUNSELLING AND PLACEMENT CELL

Convenor: Dr Kavita Mittal

Placement officer: Mr Sanjay Vohra

The College has an active Career Counselling and Placement Cell that tries to understand the career objectives of the students, keeping in mind the current trends in the corporate world. The scope of the cell extends from coordinating job hiring activities to organizing interactive career counselling seminars.

Although our students are opting to higher studies more than the jobs, but on the brighter side, large number of students attended recruitment and preplacement drives. Placement cell has organised career counselling talks and sessions like with **Career In Civil Services**’ with Adda 24|7 (IAS) for their future preparation in various fields. Webinars have been conducted often to enlighten and familiarize students with the corporate society. Placement cell also provide a platform for some add-on courses which are free of cost to the students such as “**Google Career Certificate courses**” in collaboration with TATA Strive.

Some of the companies that visited ANDC campus were Accenture, Wipro Limited, Dell Technologies, NTPC Vidyut Vyapar Nigam Ltd., Unacademy, Byju’s, Monster.com, Morgan Stanley, Swiggy, Infosys, Kotak Mahindra Bank, ICICI Lombard General Insurance Company Limited, NatWest (RBS), The Leading Solutions Pvt. Ltd., Concentrix, Winspark Innovations Learning Pvt Ltd, Delta X, WNS Global Services (P) Ltd, Rising Ed. Tech Company, The Veda Scholars Programme for Women, GlobalFoundries Inc., Apna Campus, Ruhvenile, Skillenza, FinX, EDU-Station, Ensvee, School 2 Campus, Tata Consultancy Services, Learning Link Foundation, Zuno corporations, TVS Eurogrip, Tata Strive, Connection Media, Team Lease Digital, Intellipaat, RSM Delivery Center Private Limited, Xcrino Business Solution, Chartered Financial Expert, B S R & Co. LLP Chartered Accountants.

This year 22 students were selected via campus interviews so far. Various opportunities have been given for online internships as well. Students get registered with Internshala, University of Delhi and have completed internships with different reputed companies throughout the year to boost up their career.

The placement cell is in process of signing MoUs with companies like **Monster.com** and **IMS Proschool** as this will ensure to conduct various events for a year and providing more opportunities to the students.

Offers received during session (July 2022-June 2023)

Date	Company Name	Number of Offers
August 01, 2022	Radiant Info Solutions Pvt. Ltd.	2
February 23, 2023	NatWest (RBS)	1
February 07, 2023	The Leading Solutions Pvt. Ltd.	10
February 16, 2023	Concentrix	1
January 19, 2023	Delta X	1
April 19, 2023	British Telecom	1
April 17, 2023	Wipro Limited	1

May 08, 2023	WNS Global Services (P) Ltd	2
March 05, 2023	Harij Softech Private Limited	1
-	Morgan Stanley (India Technology)	1
May 10, 2023	A Plus Topper Private Limited	1

12.1 List of few seminars/webinars conducted

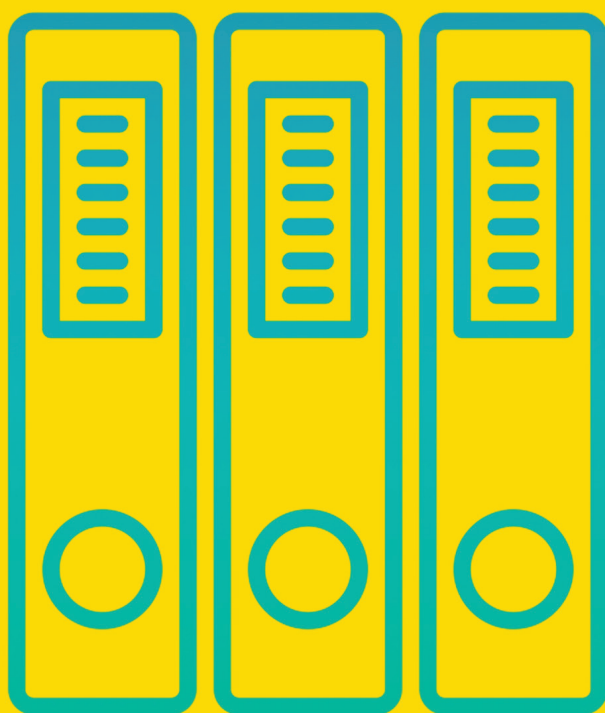
S. No.	Speaker	Details of the Event	Date
1.	Mr Surya Sagar (Senior faculty)	“Various Career Opportunities after Graduation” by Unacademy	September 04, 2022
2.	Mr Prabhat Singh (IRPS 2019 batch)	Career In Civil Services with Adda 24 7 (IAS) on	September 27, 2022
3.	Ms Rashmi Singh and Mr Abhishek Banerjee	Tata STRIVE Google Scholarship Programme	September 22, 2022
4.	Prof. Prashant Sharma (FPM, MBA)	Resume building and Online Brand Management	November 16, 2022
5.	Ms Shagufta Ahmed (Digital Marketing Analyst)	DeltaX Campus drive	January 17, 2023

12.2 Internship offers received during July 2022-June 2023 through Internshala

S. No.	Name of the company	Number of offers
1.	Across The Globe (ATG)	01
2.	APOGEE, BITS Pilani	01
3.	BizConnect	02
4.	BYJU’S The Learning App	01
5.	Centre Of Bioinformatics Research & Technology (CBIRT)	02
6.	Digi Grow Hub Education	01
7.	Digitalatto	01
8.	Envisage India Multibiz Pvt Ltd	01
9.	Hamari Pahchan NGO	05
10.	InAmigos Foundation	05
11.	INDIA Redefined	01
12.	Inkxpert Incorporation	01

13.	Jackett	01
14.	Lok Samvad Sansthan	01
15.	Loop Charging Module (LCM)	01
16.	Marpu Foundation	17
17.	Moretasks Business Solution Limited	01
18.	Muskurahat Foundation	08
19.	NayePankh Foundation	05
20.	NGOBOX	01
21.	Padmam Institutions	01
22.	Solvaphile	03
23.	TaxManager	01
24.	Team Everest	04
25.	Tech Analogy	01
26.	TechEra Knowledge And Careers	01
27.	Techfest IITB	05
28.	The Backbenchers	01
29.	Travel Professionals	01
30.	Tryst, IIT Delhi	04
31.	Whale Watcher	01
32.	Wikasta Business And Technical Solutions Private Limited	01
33.	XcitEducation Foundations	01
34.	Youth Empowerment Foundation	03
35.	Saral Bharat News	01
36.	Pet Project India Private Limited	01
37.	Connectpro Management Consultants	01

⋮⋮⋮ **Annexures**
I, II, III



Annexure I

Research Publications in Scopus indexed journals

S. No.	Details of Paper
1	Rani, J.; Bhargav, A.; Seth, S.; Datta, M.; Bajpai, U. ; Ramachnadran, S. (2022) Identification of perturbed pathways rendering susceptibility to tuberculosis in type 2 diabetes mellitus patients using BioNSi simulation of integrated networks of implicated human genes, Biosci 47:69. https://doi.org/10.1007/s12038-022-00309-z
2	Das, R.; Bajpai, U. (2023) Functional characterization of a DNA-dependent AAA ATPase in a F-cluster mycobacteriophage, Virus Research 323,198957. https://doi.org/10.1016/j.virusres.2022.198957
3	Kumar, S.; Choudhar, N.; Faruq, M.; Kumar, A.; Saran, R. K.; Indercanti, P. K.; Singh, V.; Sait, H.; Jaitley, S. ; Valis, M.; Kuca, K.; Polipalli, S. K.; Kumar, M.; Singh, T.; Suravajhala, P.; Sharma, R.; Kapoor, S. (2023) Anastrozole-mediated modulation of mitochondrial activity by inhibition of mitochondrial permeability transition pore opening: an initial perspective, Journal of Biomolecular Structure and Dynamics, 1-17 https://doi.org/10.1080/07391102.2023.2176927
4	Agarwal, N.; Khanna, M.; Dhawan, G. (2023) Identification of suitable house-keeping genes during chikungunya virus infection, Indian Journal of Medical Microbiology, 42, 49–52. https://doi.org/10.1016/j.ijmmb.2023.01.007
5	Wang, N.; Mei, H.; Dhawan, G. ; Zhang, W.; Han, J.; Soloshonok, V. A. (2023) New Approved Drugs Appearing in the Pharmaceutical Market in 2022 Featuring Fragments of Tailor-Made Amino Acids and Fluorine, Molecules, 28, 3651. https://doi.org/10.3390/molecules28093651
6	Agrawal, N.; Saini, S.; Khanna, M.; Dhawan, G. ; Dhawan, U. (2022) Pharmacological Manipulation of UPR: Potential Antiviral Strategy Against Chikungunya Virus. Indian Journal of Microbiology, 62, 634–640. https://doi.org/10.1007/s12088-022-01046-5
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GenBank Submissions

S. No.	Details of Paper
1	Maurya, S.; Somasundaram, S.; Abraham, J. S.; Dagar, J.; Sandeep, A.; Gupta, R., Toteja, R.; and Makhija, S. (2022) Colpoda Cucullus strain S21 small subunit ribosomal RNA gene, partial sequence. Acc. No. OP050124.
2	Maurya, S.; Abraham, J. S.; Somasundaram, S.; Sandeep, S.; Dagar, J.; Gupta, R.; Makhija, S. and Toteja, R. (2022) Bresslauides discoideus strain J21 small subunit ribosomal RNA gene, partial sequence Acc. No. OM278536.
3	Maurya, S.; Somasundaram, S.; Abraham, J. S.; Sandeep, A.; Dagar J.; Makhija, S.; Toteja, R.; Gupta, R.,; Sood, U. and Lal, R. (2023) Draft. Macrogenome of Colpoda sp. Acc. No. JAFRYC000000000

Book Chapters and Books

S. No.	Details of Paper
1	Aggarwal, S.; Mahajan, P.; Gupta, P.; Yadav, A. ; Dhawan, G.; Dhawan, U.; Yadav, A. K. (2023) The bacterial communication system and its interference as an antivirulence Strategy, In Bacterial Survival in the Hostile Environment, Ed. Kumar, A.; Tenguria, S. Academic Press, pg 163-191. ISBN : 978-0-323-91806-0 https://doi.org/10.1016/B978-0-323-91806-0.00010-2

2	Mangla, Y.; Khanduri, P.; Gupta, C. K. (2022) Reproductive biology of angiosperms: Concepts and laboratory methods, Cambridge University Press. ISBN: 9781009160407
3	Manisha, Mangla, Y.; Tandon, R.; Goel, S. (2022) Current Status of Chromosome-Based Gender determination in Seabuckthorn. <i>In: The Seabuckthorn Genome</i> . Sharma P. Springer-Nature, Switzerland. * <i>Equal contribution</i> . (pp:67-78) ISBN: 978-3-031-11275-1
4	Samal, R. R.; Gautam, D.; Panmei, K.; Lanbiliu, P.; Saya, L.; Gambhir, G.; Hooda, S.; Kumar, S. (2022) Evolution in graphene oxide-based materials characterization and modelling, In Reference Module in Materials Science and Materials Engineering, Elsevier. ISBN 978-0-12-803581-8. https://doi.org/10.1016/B978-0-323-96020-5.00017-0
5	Saya, L.; Gautam, D.; Hooda, S.; Gambhir, G.; Kumar, S. (2022) Modeling and characterization of guar-gum based nanocomposites for water purification, In Reference Module in Materials Science and Materials Engineering, Elsevier. ISBN 978-0-12-803581-8. https://doi.org/10.1016/B978-0-323-96020-5.00019-4
6	Kaur, S. (2023) “Indian Foreign Policy” for the book Indian Foreign Policy (Publication-Selfypage Developer Pvt Ltd, Michigan, USA 2023). ISBN : 978-1-68576-421-0
7	Goel, S. K.; Sachdeva, R. (2023). “EdTech for Achieving Sustainable Development Goal (SDG) - 4 in India” in Climate Change, Pollution and Sustainable Development. (INSPIRA, Jaipur, Rajasthan, India). ISBN: 978-93-91932-23-7
8	Sao, A. K.; Singh, J. P.; Sharma, B.; Munjal, S.; Sharma A.; Tomar, M.; Chowdhuri, A. (2022) CdS-SnO ₂ nanocomposite sensor for room temperature detection of NO ₂ gas, In Sensing Technology, Proceedings of ICST 2022, Ed. Suryadevara, N. K.; George. B.; Jayasundera. K. P.; Roy, J. K.; Mukhopadhyay, S. K., (Lecture notes in Electrical Engineering 886), pg 283-289.
9	Verma, N.; Joshi, R. (2022) An overview of information theoretic measures, In Advance Research in Physical & Chemical Sciences and Engineering, Ed. : S. K. Singh, R. K. Shukla and C. K. Dixit, MKSES publisher, Lucknow (India). ISBN: 978-93-91248-47-5

10	Singh, S. (2023) The book chapter titled The Applications of Biosensors and Biochips for Prognosis and Diagnosis of Diseases, 387-411. International, Publisher: Springer. https://doi.org/10.1007/978-981-19-8501-0_12 ISBN: 978-981-19-8501-0
11	Kumar, U.; Gautam, R.; Sonker, R. K. ; Yadav, B. C.; Chan, K. L.; Wu, C. H.; Huang, W. M. (2022) Micro and Nanofibers-Based Sensing Devices. In: Sonker, R.K., Singh, K., Sonkawade, R. (eds) Smart Nanostructure Materials and Sensor Technology. Springer, Singapore. https://doi.org/10.1007/978-981-19-2685-3_5 ISBN: 978-981-19-2685-3
12	Ghongade, S. D.; Waikar, M.R.; Sonker, R.K. ; Chakarvarti, S.K.; Sonkawade, R.G. (2022) Gas Sensors Based on Hybrid Nanomaterial. Springer, Singapore. https://doi.org/10.1007/978-981-19-2685-3_13 Print ISBN: 978-981-19-2684-6; Online ISBN: 978-981-19-2685-3
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14	Samal, R. R.; Lanbiliu, P.; Panmei, K.; Kumar, S. (2022) Mentha Piperita essential oil as an effective biopesticide against mosquitoes, In Agricultural research Updates, Vol. 43, Ed. Gorawala, P.; Mandhatri, S. Nova Science publishers, pg 207-233. ISBN: 979-8-88697-568-0
15	Ed. Kumar S. (2022) Advances in Diptera-Insight, Challenges and Management Tools, Intech Open, United Kingdom, pp:104. ISBN: 978-1-80356-354-1 https://doi.org/10.5772/intechopen.102160
16	Solanki, R.; Anand, S.; Kapur, M. K. (2022) Biology of the B Lymphocyte, In An Interplay of Cellular and Molecular Components of Immunology, Ed. Singh, I. K.; Sharma, P. CRC Press. ISBN: 9781003286424 https://doi.org/10.1201/9781003286424

Papers in Conference Proceedings

S. No.	Details of Paper
1	Hanif, S.; Das, R.; Chavan, B.; Shah, S.; Bajpai, U. ; Ahmed, S. (2023) Phage-encoded lysins as promising antibacterials against uropathogenic <i>Escherichia coli</i> . <i>JAC-Antimicrobial Resistance</i> , Volume 5, Issue Supplement_1.

2	Kaur, S.; Kaur, P. (2023) Green Entrepreneurship: A Case Study of “Mitti Cool Clay Creation” in International Conference on Sustainable Business Practices and Innovative Models held on 25th March 2023 organized by Christ Deemed to be University. Pp. 49.
3	Kaur, S.; Kaur, P. (2023) Effect of Covid 19 on Mental Health: A Bibliometric Analysis in International Conference on Social Determinants of Health Inequality and Health Inequity: Impact of Covid-19; Strategies for the Future held on February 23-24, 2023, Pp. 44.
4	Kaur, S.; Yadav, S. (2023) Impact of Covid 19 on Agricultural Production in International Conference on Social Determinants of Health Inequality & Health Inequity: Impact of Covid-19; Strategies for the Future held on 23-24th February 2023. Pp. 44.
5	Jain, K.; Bhatnagar, V.; Kaur, S. (2023) Collective Behavior in Community-Structured Network and Epidemic Dynamics. In: Jain, S., Groppe, S., Mihindukulasooriya, N. (eds) Proceedings of the International Health Informatics Conference. Lecture Notes in Electrical Engineering, vol 990. Springer, Singapore. https://doi.org/10.1007/978-981-19-9090-8_16
6	Gaur, V. (2023) International Conference on Advances in IoT, Security with AI at Deen Dayal Upadhyaya College, University of Delhi, New Delhi, India.
7	Ghai, G.; Vashishtha, S.; Agrawal, A.; Kaur, R. (2022) A Novel Architecture of Ultra-Thin Body Silicon On Insulator (UTB SOI) MOSFET for Biomolecular Sensing Application. In 2022 7th International Conference of Indian Network for Soil Contamination Research (INSCR) (Modulating the Environment with Microbes) (pp -28) . Acharya Narendra Dev College (University of Delhi), Bhaskracharya College of Applied Sciences (University of Delhi), CMP College (Allahabad University), Deen Dayal Upadhyay College (University of Delhi), Gargi College (University of Delhi), Kolhan University (Chaibasa, Jharkhand), Kirori Mal College (University of Delhi), KIIT (Bhubaneswar, Odisha), Miranda College (University of Delhi), PG Department Zoology (Magadh University), , Maitreyi College (University of Delhi), Ramjas College (University of Delhi), Shivaji College (University of Delhi), SoAS, Dev Bhoomi (Uttarakhand University), Sri Venkateswara College (University of Delhi), SGTB Khalsa College ((University of Delhi))and Phixgen Pvt Ltd.
8	Vashishtha, S.; Ghai, G.; Kaur, R.; Agrawal, A. (2022) Bluetooth Beacons: Location based Geofence for crowd management. In 2022 7th International Conference of Indian Network for Soil Contamination Research (INSCR) (Modulating the Environment with Microbes) (pp-29) . Acharya Narendra Dev College (University of Delhi), Bhaskracharya College of Applied Sciences (University of Delhi), CMP College (Allahabad University), Deen Dayal Upadhyay College (University of Delhi), Gargi College (University of Delhi), Kolhan University (Chaibasa, Jharkhand), Kirori Mal College (University of Delhi), KIIT (Bhubaneswar, Odisha), Miranda College (University of Delhi), PG Department Zoology (Magadh University), , Maitreyi College (University of Delhi), Ramjas College (University of Delhi), Shivaji College (University of Delhi), SoAS, Dev Bhoomi (Uttarakhand University), Sri Venkateswara College (University of Delhi), SGTB Khalsa College ((University of Delhi))and Phixgen Pvt Ltd.

9	Ghai, G.; Agrawal, A.; Kaur, R. (2023) Academic Use of ChatGPT: Pros and Cons. One Day National Conference on “One Earth One Family One Future” organised by Acharya Narendra Dev College, Govindpuri, Kalkaji, New Delhi.
10	Vashishtha, S.; Yogi, D. K.; Singh, S. K.; Kaur, R.; Agrawal, A. (2023) IoT Based Landslide Detection System”, Ravneet Kaur and Anju Agrawal, In 2023 International Conference On “ Interdisciplinary Research in Technology & Management ” (IRTM-2023) (pp.-377-380) Deen Dayal Upadhyaya College, University of Delhi, New Delhi, India. University of Canberra, Australia and NIT Arunachal Pradesh, India.
11	Sharma, A.; Goel, N. (2023) Effect of MSD viscosity and Coriolis force on Soret driven ferrothermohaline convection in an anisotropic darcy porous medium with LTNE: Linear stability analysis, Proceedings of 2nd international conference on Mathematics in space and applied sciences, pg 85-92, Vol. 1, ISBN-978-81-947143-1-6.
12	Sharma, A.; Goel, N. (2023) Study of lack of thermal equilibrium and anisotropic effects on double-diffusive ferroconvection in porous medium, Proceedings of 2nd international conference on Mathematics in space and applied sciences, , pg 242-246, Vol. 1, ISBN-978-81-947143-1-6.
13	Rani, S.; Verma, M.; Raj, V. B.; Chowdhuri, A.; Nimal, A. T. (2022) SAW Multi Sensor Array for the Detection of Different Vapors by Applying Artificial Neural Network, Proceedings of 8th International Conference on Sensors Engineering and Electronics Instrumentation Advances (SEIA’ 2022), 21 – 23 Corfu Holiday Palace, Corfu, Greece, pp 91 – 92 ISBN: 978-84-09-43854-9

Presentations in conference

S. No.	Authors	Title of Paper	Invited Lecture/ Resource Person /Paper presented	Dates of conference and details of paper published in the proceedings
1	Prof. Urmi Bajpai (Biomedical Science)	Anti-biofilm activity of endolysin against uropathogenic	E-poster	Escherichia coli. ESPID 2023, 8-12 May, Portugal
2		Phage-encoded lysins: A promising approach to treat urinary tract infections caused by uropathogenic Escherichia coli.	E-poster	Microbiology Society, April 17–20 2023, England.

3	Prof. Urmi Bajpai (Biomedical Science)	Isolation and Characterization of novel mycobacteriophages against <i>Mycobacterium smegmatis</i> Mc2 155.	Poster Presentation	23rd Annual Convention on Translating human evolutionary history to precision medicine by Banaras Hindu University, Varanasi, India. March 10-12, 2023.
4		Mycobacteriophages: Potential Therapeutic Agents against Drug-Resistant Tubercular and Non-Tubercular Mycobacterial (NTM) Infections	Poster Presentation	International conference : Towards End TB: Achievements, Challenges and Future directions at DBT-THSTI, Faridabad, March 23-25, 2023
5		Cluster classification of novel Mycobacteriophages specific to <i>Mycobacterium smegmatis</i> Mc2155	Poster Presentation	International conference : Towards End TB: Achievements, Challenges and Future directions at DBT-THSTI, Faridabad, March 23-25, 2023
6		Agrofoglio. : In silico & in vitro screening of inhibitors of Mur enzymes in <i>Mycobacterium tuberculosis</i> ”.	Poster Presentation	International conference : Towards End TB: Achievements, Challenges and Future directions at DBT-THSTI, Faridabad, March 23-25, 2023
7		Mycobacteriophage RitSun Endolysins with intrinsic antimycobacterial activity.	Poster Presentation	13th National Symposium on ‘Frontiers in Biomedical Research’ (FBR 2022) by ACBR, University of Delhi. November 2-4, 2022
8		Inhibitory and Disruptive effects of Novel Mycobacteriophages on <i>Mycobacterium smegmatis</i> biofilm.	Poster Presentation	13th National Symposium on ‘Frontiers in Biomedical Research’ (FBR 2022) by ACBR, University of Delhi. November 2-4, 2022
9		Lysins as promising antibacterial agents against uropathogenic <i>Escherichia coli</i> .	E-poster	WRCB Summit on Next Generation Therapeutics, November 18 2022, India.

10	Prof. Urmi Bajpai (Biomedical Science)	Lysins as promising antibacterial therapeutics against uropathogenic <i>Escherichia coli</i> .	Poster Presentation	ESCMID/ASM Conference on Drug Development to Meet the Challenge of Antimicrobial Resistance in Ireland. October 04-07, 2022
11		Characterization of Interaction between soil-dwelling bacteria and bacteriophages.	Poster Presentation	7th Annual International Conference of Indian Network for Soil Contamination Research by University of Delhi and PhiXgen Pvt. Ltd., India. November 7-11, 2022.
12		A F4 cluster Mycobacteriophage Ritam007 with biofilm inhibitory activity and a unique lysis cassette.	Poster Presentation	International conference 'Phages in Paris' by Institut Pasteur. October 11-13, 2022.
13	Dr Rimpri Kaur Chowhan (Biomedical Science)	Understanding aggregation behaviour of the brain antioxidant enzyme, Prdx6 and its relevance to neurodegenerative diseases of protein aggregation origin.	Paper Presentation (e-Poster)	e-Poster presented at the International conference, organized by Keystone Symposia on Molecular and Cellular Biology, USA on "Neurodegeneration: The Biological Pathways Driving the Future of Therapeutic Development" from June 05-09, 2022.
14	Dr Geetika Kalra Dr Anita Thakur (Botany)	Does Auxin and melatonin interaction palliate heavy metal and metalloid toxicity in plants?	Presentation	Mitigating Contemporary Environmental issues by sustainable approaches(ICMCESA) organized by Acharya Narendra Dev College. February 22-28, 2022

15	Prof. Sunita Hooda (Chemistry)	Impedance Studies in Ferrite Nano material Doped Bio polymer	Paper Presentation	3rd National Conference on Materials and Devices (3rd NCMD- 2022) , Faculty of Engg, & Deptt of Physics, Teerthanker Mahaveer University (A-24). November 10-11, 2022
16		Study of Dielectric Properties of Biodegradable Polymer with Inverse Spinel Iron Oxide Nanomaterial.	Paper Presentation	7th International Conference on Ions Beams in Materials Engineering and Characterization, Organized by Inter University Accelerator Centre, New Delhi, India. (A-25). November 16-19, 2022
17		Hydrothermal Synthesis of Magnetic Nanoparticles and their UV-Visible Analysis.	Paper Presentation	Nanotechnology: Opportunities and Challenges (ICNOC 2022), A-014, P-104, Department of Applied Sci, & Humanities, Faculty of Eng. & Tech, Jamia Millia Islamia, New Delhi, India (A-26). November 28-30, 2022
18	Prof. Sunita Hooda (Chemistry)	Magnetized Nanocomposite of Graphene Oxide /Ground Nut Husk/Guar gum for adsorption of reactive Green 19.	Paper Presentation	Nanotechnology: Opportunities and Challenges (ICNOC 2022), A-027, P- 115, Deptt of Applied Sci & Humanities, Faculty of Engg & Tech. Jamia Millia Islamia, New Delhi, India. (A-27). November 28-30, 2022

19		Synthesis & analysis of Tamarind Kernal- Coated Magnetic Iron Oxide Nanoparticles.	Paper Presentation	Nanotechnology: Opportunities and Challenges (ICNOC 2022), A-123, P-213, Department of Applied Sciences & Humanities, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, India (A-28). November 28-30, 2022
20		Investigative Study of Magnetized Groundnut Husk for the Adsorptive Removal of Rhodamine 6G Dye from Aqueous Solution,	Paper Presentation	Nanotechnology: Opportunities and Challenges (ICNOC 2022), C-65, P-586, Department of Applied Sciences & Humanities, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, India, (A-29). November 28-30, 2022
21		Enhanced Thermal Stability of Bio-degradable Polymer and Graphene Oxide Blend with Inverse Spinel Iron Oxide Nanomaterial	Paper Presentation	Nanotechnology: Opportunities and Challenges (ICNOC 2022), C-153, P- 674, Department of Applied Sciences & Humanities, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, India, (A-30). November 28-30, 2022
22	Prof. Sunita Hooda (Chemistry)	A Study of thermal stability of multi component Functionalized Biocomposite materials.	Oral Presentation	2nd International conference on Advance Interdisciplinary Research (ICAIR-2023), Jointly organized by Digvijay Nath Post Graduate College, Gorakhpur, UP and Sci.Tech Inst., Lucknow. (A-31), April 07-09, 2023

23		Preferential absorption behaviour of methylene blue dye onto the surface of MPVA-GO Nanocomposite	Paper Presentation	2nd International Symposium on Emerging Trends in Synthesis and Catalysis, Organized by Amity Institute of Applied Sciences, Amity University, Uttar Pradesh. (A-32), April 12-13, 2023
24		Complex Impedance Spectroscopic Studies of Modified GO Functionalized by Added Magnetite Nanoparticles.	Paper Presentation	International conference on futuristic materials ICFM 2022, Department of Physics, Manav Rachna University Haryana, India (A-33). December 08-09, 2022
25	Prof. Pooja Bhagat (Chemistry) Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Characterization of Acharya Narendra Dev College (ANDC) campus soil: A Pilot Project to access the soil quality	Poster Presentation	Poster presentation in an International conference 44th All India Cell Biology Conference & International Symposium on Molecular and Cellular Insights of Human Diseases, University of Kashmir. September 02-03, 2022
26	Prof. Pooja Bhagat (Chemistry) Prof. Ravi Toteja (Zoology)	Evaluation of Heavy metal Pollution Load in River Yamuna using HPI	Poster Presentation	Poster presentation in an International conference 44th All India Cell Biology Conference & International Symposium on Molecular and Cellular Insights of Human Diseases, University of Kashmir. September 02-03, 2022
27	Prof. Shallu Sachdeva (Chemistry)	Synthetic compound of Vitamin B12 - Synthesis and Estimation	Paper Presentation	National Conference on Advancements in Interdisciplinary Research (NCAIR-2021), July 29-31, 2022

28		Nanoscience in Cosmeticology	Paper Presentation	International Conference on Multidiscipline Academic Research and Innovation, Aryabhat Institute of Academics and Research Lucknow, September 10-11, 2022
29	Prof. Shallu Sachdeva Prof. Neelu Dheer (Chemistry)	Metal Ions and Chelates in Medicine	Paper Presentation	Online International Conference on Research Methodology (ICRM-2022), Science Tech Institute, Lucknow and Dr Shakuntala Misra National Rehabilitation University, October 28-30, 2022
30		Acharya P C Ray- An Inspiration for New Pedagogies and Research in NEP	Paper Presentation	International Conference on Contributions of Acharya Prafulla Chandra Ray as A Chemist and Freedom Fighter, Ministry of Culture in association with Vigyan Bharti, August 02-03, 2022
31		Acharya P C Ray - A Visionary and Pioneer of Indian Science and Research	Paper Presentation	International Conference on Contributions of Acharya Prafulla Chandra Ray as A Chemist and Freedom Fighter, Ministry of Culture in association with Vigyan Bharti, August 02-03, 2022
32	Prof. Shallu Sachdeva (Chemistry)	Women In Science-Past and Present	Paper Presentation	7th Annual International Conference of (INSCR) on Modulating the Environment with Microbes, INSCR, November 8-11, 2022
33	Prof. Shallu Sachdeva (Chemistry)	Metal ion- Schiff base Complexes as Anti-Inflammatory Agents	Paper Presentation	Aryabhat Institute of Academic Research, Amiruddaula Islamia Degree College, Lucknow, January 28-29, 2023

34		Recent Trends in Chemical Sciences	Paper Presentation	International Conference on Recent Trends in Chemical Sciences-2023, Miranda House, in association with IUPAC, February 14, 2023
35	Prof. Geetu Gambhir (Chemistry)	Hydrothermal Synthesis of Magnetic Nanoparticles and their UV-Visible Analysis.p	Paper presented	Nanotechnology: Opportunities and Challenges (ICNOC 2022), Department of Applied Sci, & Humanities, Faculty of Eng. & Tech, Jamia Millia Islamia, New Delhi, India. November 28-30, 2023
36		Magnetized Nanocomposite of Graphene Oxide /Ground Nut Husk/Guar gum for adsorption of reactive Green 19.	Paper presented	Nanotechnology: Opportunities and Challenges (ICNOC 2022), Department of Applied Sci, & Humanities, Faculty of Eng. & Tech, Jamia Millia Islamia, New Delhi, India. November 28-30, 2023
37		Synthesis & analysis of Tamarind Kernal- Coated Magnetic Iron Oxide Nanoparticles.	Paper presented	Nanotechnology: Opportunities and Challenges (ICNOC 2022), Department of Applied Sci, & Humanities, Faculty of Eng. & Tech, Jamia Millia Islamia, New Delhi, India.
38		Enhanced Thermal Stability of Bio-degradable Polymer and Graphene Oxide Blend with Inverse Spinel Iron Oxide Nanomaterial	Paper presented	Nanotechnology: Opportunities and Challenges (ICNOC 2022), Department of Applied Sci, & Humanities, Faculty of Eng. & Tech, Jamia Millia Islamia, New Delhi, India. November 28-30, 2023

39		A Study of thermal stability of multi component Functionalized Biocomposite materials.	Oral Presentation	2nd International conference on Advance Interdisciplinary Research (ICAIR-2023), Jointly organized by Digvijay Nath Post Graduate College, Gorakhpur, UP and Sci.Tech Inst., Lucknow. April 07-09, 2023
40		Preferential absorption behaviour of methylene blue dye onto the surface of MPVA-GO Nanocomposite	Paper Presentation	2nd International Symposium on Emerging Trends in Synthesis and Catalysis, (ETSC-2023), Organized by Amity Institute of Applied Sciences, Amity University, Uttar Pradesh
41	Prof. Dinesh Kumar Arya (Chemistry)	Metal ion and dye adsorption from tamarind -based biocomposites for wastewater treatment	Paper presented	International Conference on Emerging Trend in Plant&Environment Sciences Organized by Department of Botany, University of Rajasthan, Jaipur on February 02-04, 2023
42	Dr Surinder Kaur (Commerce)	Inclusion as a life Skill among Managers for Sustainable Future	Paper presented	International Conference on Life Skill Education Organized by Indian Association of Life Skills Education (IALSE) & Department of Political Science, Rajdhani College, University of Delhi In collaboration with UNFPA
43		Digitalising Education: Teacher's Perceptions towards Integration of ICT in Education.	Paper presented	National Seminar on Atmanirbhar Bharat: Building Resilience, Sustainability and Global Competitiveness Organised by the Department of Commerce and Financial Studies (DCFS), Central University of Jharkhand, Ranchi.

44	Dr Surinder Kaur (Commerce)	Phool: Journey from Waste to Wealth	Paper presented	National Seminar on Sustainable Business Models for Atmanirbhar Bharat organized by Bharati College, University of Delhi, November 21-22, 2022
45		National Education Summit on Commerce and Accountancy	Participant	National Education Summit organized by Board of Studies ICAI
46		Role of Digital Technologies in Education and Talent Development	Paper presented	XXIV Annual International Conference on Nationalism, Globalisation and Development organised by DSPSR Guru Gobind Singh Indraprastha University
47		Green Entrepreneurship and Sustainable Business Development Models	Paper presented	8th Annual International Commerce Conference organized by Department of Commerce, Delhi School of Economics, University of Delhi
48		Effect of Covid 19 on Mental Health: A Bibliometric Analysis	Paper presented	International Conference on Social Determinants of Health Inequality and Health Inequity organized by Jesus and Mary College, University of Delhi
49		Impact of Covid 19 on Agricultural Production	Paper presented	International Conference on Social Determinants of Health Inequality and Health Inequity organized by Jesus and Mary College, University of Delhi

50	Environmental Accounting Disclosures: A Bibliometric Analysis From 1981 To 2022 Using Scopus Database	Paper presented	International Conference on Sustainable Development in Commerce, Management and Technology organized by Research Affairs Committee, Rajdhani College, University of Delhi, Indian Commerce Association, Delhi-NCR Chapter, & Pinaki Technno, India
51	Role of Edtech Companies in Providing Inclusive and Quality Education in India	Paper presented	National Conclave on India's Future and Higher Education organized by Hansraj College, University of Delhi
52	Green Entrepreneurship: a case study of Mitticool Clay Creation	Paper presented	International Conference on Sustainable Business Practices and Innovative Models Christ deemed to be University
53	Adoption of IOT based Wearable Fitness Devices: A Bibliometric Analysis	Paper presented	National Conference on One Earth*One Family* One Futureorganised by Acharya Narendra Dev College, Department of Commerce, Delhi School of Economics, University of Delhi in Collaboration with ICA
54	AI and Jobs: Debunking the Myths	Paper presented	National Conference on One Earth*One Family* One Futureorganised by Acharya Narendra Dev College, Department of Commerce, Delhi School of Economics, University of Delhi in Collaboration with ICA

55		Formation, Survival and Growth of YULU	Paper presented	National Conference on One Earth*One Family* One Futureorganised by Acharya Narendra Dev College, Department of Commerce, Delhi School of Economics, University of Delhi in Collaboration with ICA
56		Rise, Ruin and Fall of Campa Cola	Paper presented	National Conference on One Earth*One Family* One Futureorganised by Acharya Narendra Dev College, Department of Commerce, Delhi School of Economics, University of Delhi in Collaboration with ICA
57		Digital Economy and its Applications in India: A Comprehensive Review	Paper presented	National Conference on One Earth*One Family* One Futureorganised by Acharya Narendra Dev College, Department of Commerce, Delhi School of Economics, University of Delhi in Collaboration with ICA
58		Carbon Credit Accounting	Paper presented	National Conference on One Earth*One Family* One Futureorganised by Acharya Narendra Dev College, Department of Commerce, Delhi School of Economics, University of Delhi in Collaboration with ICA

59		Role of Inclusion as a Management Skill and Job Performance	Paper presented	National Conference on Sustainable Development Goals: A Multidisciplinary Ingress organized by Amity University Utter Pradesh
60		Environmental Accounting- A Systematic Literature Review from 2013-22 using Scopus Database	Paper presented	International Conference on Attaining Sustainability @75organised by Department of Commerce, University of Lucknow
61		YULU and Urban Mobility	Paper presented	FORE International Case Conference organized by FORE School of Management, New Delhi
62	Ms Poonam Chauhan (Commerce)	Green Finance Modelling of Indian Economy”	Paper presented	One day national conference on “One Earth, One Family , One Future” Organised by Department of Commerce, Acharya Narendra Dev college, on April 03, 2023.
63	Dr Sandeep Kumar Goel (Commerce)	EdTech for Achieving SDG-4 in India	Paper Presented	10th International Conference on Advances in Business and Management on ‘Business Practices in the Era of Sustainable Development Goals (SDGs) 2030 and New Age Technologies’, Department of Commerce, Shaheed Bhagat Singh College, University of Delhi, India, November 10-11, 2022.

64		An Analysis of Integrated Reporting Practices of Select Indian Banks	Paper Presented	ICSSR Sponsored 8th Annual International Commerce Conference-2023 on 'भारत @ 2047': Role of Commerce and Business', Department of Commerce, Delhi School of Economics, University of Delhi held at Deen Dayal Upadhyaya College, University of Delhi, New Delhi, January 11-12, 2023.
65		Adopting Sustainable Development Measures Imperative for Business Organizations	Paper Presented	International Conference on 'Sustainable Development in Commerce, Management and Technology', Research Affairs Committee, Rajdhani College, University of Delhi, Indian Commerce Association Delhi-NCR Chapter and Pinaki Technno, India, February 26-27, 2023.
66		An Analysis of Financial Performance of Select Indian ESG and Non-ESG Companies	Paper Presented	One Day National Conference on 'One Earth · One Family · One Future', Department of Commerce, Acharya Narendra Dev College under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi and in collaboration with Indian Commerce Association Delhi NCR Chapter, April 3, 2023.

67	Dr Sandeep Kumar Goel (Commerce)	Mapping the field of Green Human Resource Management: A Bibliometric Analysis	Paper Presented	One Day National Conference on 'One Earth · One Family · One Future', Department of Commerce, Acharya Narendra Dev College under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi and in collaboration with Indian Commerce Association Delhi NCR Chapter, April 3, 2023.
68		Financial Inclusion-A Case Study of AU Small Finance Bank	Paper Presented	One Day National Conference on 'One Earth · One Family · One Future', Department of Commerce, Acharya Narendra Dev College under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi and in collaboration with Indian Commerce Association Delhi NCR Chapter, April 3, 2023.

69		Contribution of FMCG Companies towards CSR: A Consumer's Perspective	Paper Presented	One Day National Conference on 'One Earth · One Family · One Future', Department of Commerce, Acharya Narendra Dev College under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi and in collaboration with Indian Commerce Association Delhi NCR Chapter, April 3, 2023.
70	Dr Shalu Mahajan (Commerce)	"Impact of Economic, Social and Governance on Sustainable Business Growth: An Insightful Review"	Paper Presented	One day National Conference on "ONE EARTH • ONE FAMILY • ONE FUTURE" under the aegis of Internal Quality Assurance Cell (IQAC), ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with Indian Commerce Association, Delhi NCR Chapter on April 3, 2023

71	Dr Jitender Goel (Commerce)	One Earth, One Family, One Future	Paper presented	One Day National Conference held on April 3, 2023 on “One Earth, One Family, One Future”, organized by Department of Commerce, Acharya Narendra Dev College under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with Indian Commerce Association (ICA) Delhi NCR Chapter, Acharya Narendra Dev College, University of Delhi, New Delhi.
72	CA Yask Sain Ms Hanisha Bhagat Mr Ankit Singh (Commerce)	“Developing a framework of inclusion for employees with disabilities at workplace”	Paper Presented	One day National Conference on “ONE EARTH • ONE FAMILY • ONE FUTURE” under the aegis of Internal Quality Assurance Cell (IQAC), ANDC and Department College Interface, Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with Indian Commerce Association, Delhi NCR Chapter on April 3, 2023
73	Dr Sapna Yadav (Commerce)	A Study :the effect of economic factors of financial inclusion	Paper Presented	03/04/23

74	Ms Rupali Pabreja (Commerce)	Carbon Credit Accounting	Paper presented	Organized by Department of Commerce, Acharya Narendra Dev college and the Department of Commerce, Delhi School of Economics, university of Delhi in collaboration with Indian Commerce Association, Delhi NCR Chapter on April 03, 2023.
75	Ms Gunjan Rani (Computer Science)	Role of Node Centrality in Information Dissemination in Delhi Metro Network	Paper Presented	International Conferences on advances in IoT, security with AI (ICAISA - 2023) organized by Deen Dayal Upadhyaya College, University of Delhi, India held on March 24-25, 2023.
76	Prof. Anju Agrawal Prof. Amit Garg (Electronics)	Structural and Optical Characterization of MoS ₂ for its Potential Applications in Biosensing	Paper Presented	International E-conference On Advance Interdisciplinary Research [ICAIR-2023] during April 7-9, 2023, organized by Digvijay Nath Post Graduate College, Gorakhpur, U.P. & Science-Tech Institute run by Manraj Kuwar Singh Educational Society, Lucknow, U.P.
77	Prof. Amit Garg (Electronics)	Effect of Si doping on transport, structural and optical properties of GaN grown on SiC, substrate by Metal Organic Vapor Phase Epitaxy,	Paper Presented	National seminar on Recent Advances in Multifunctional Materials, M.L.K.P.G. college, Balrampur, December 17-18, 2022.

78	Prof. Amit Garg (Electronics)	Preliminary Studies on Sensing Properties of RGO	Paper Presented	2nd International Conference on Multidisciplinary Academic Research and Innovation jointly organized by Aryabhata Institute of Academics and Research and Amiruddaula Islamia Degree College, Lucknow on January 28-29, 2023
79	Prof. Amit Garg (Electronics)	Preliminary Study of Protein Binding on Graphene Oxide	Paper Presented	2nd International Conference on Multidisciplinary Academic Research and Innovation jointly organized by Aryabhat Institute of Academics and Research and Amiruddaula Islamia Degree College, Lucknow on January 28-29, 2023
80	Prof. Amit Garg (Electronics)	Green Synthesis Method for Super-Capacitor Application	Paper Presented	MSRI AGM 2023 at IIT(BHU) Dec 12-15, 2023(accepted).
81	Prof. Anju Agrawal Dr Ravneet Kaur Ms Gauri Ghai (Electronics)	A Novel Architecture of Ultra-Thin Body Silicon On Insulator (UTB SOI) MOSFET for Biomolecular Sensing Application	Paper Presented	7th International Conference of Indian Network for Soil Contamination Research (INSCR) "Modulating the Environment with Microbes" from November 08-11, 2022.

82		Bluetooth Beacons: Location based Geofence for crowd management	Paper Presented	7th International Conference of Indian Network for Soil Contamination Research (INSCR) “Modulating the Environment with Microbes” from November 08- 11, 2022.
83		Academic Use of ChatGPT: Pros and Cons	Paper Presented	One Day National Conference on “One Earth One Family One Future” organised by Acharya Narendra Dev College, Govindpuri, Kalkaji, New Delhi on April 3, 2023
84	Dr Ravneet Kaur (Electronics)	An Intelligent Covid Management System for Pre Schools	Paper Presented	International Conference on Advances in IoT, Security with AI (ICAISA-2023) organised by Deen Dayal Upadhyaya College, University of Delhi, New Delhi, India. University of Canberra, Australia and NIT Arunachal Pradesh, India. March 24-25, 2023
85	Dr Ravneet Kaur Dr Monika Bhattacharya (Electronics)	IoT Based Smart Drainage System	Paper Presented	International Conference on Advances in IoT, Security with AI (ICAISA-2023) from 24 – 25 March, 2023 organised by Deen Dayal Upadhyaya College, University of Delhi, New Delhi, India. University of Canberra, Australia and NIT Arunachal Pradesh, India.

86	Dr Neeti Goel (Mathematics)	Effect of MFD Viscosity and Coriolis Force on Soret –Driven Ferrothermohaline Convention in An Anisotropic Darcy Porous Medium with LTNE: Linear Stability Analysis	Paper Presentation	2nd International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2023) organised by the Department of Mathematics, Netaji Subhash Chandra Bose Memorial Govt. College, Hamirpur-177005, Himachal Pradesh, India on March 03-04, 2023
87	Prof. Arijit Chowdhuri (Physics)	SAW Multi Sensor Array for the Detection of Different Vapors by Applying Artificial Neural Network	Paper Presentation	Proceedings of 8th International Conference on Sensors Engineering and Electronics Instrumentation Advances (SEIA' 2022), Corfu Holiday Palace, Corfu, Greece, pp 91 – 92 [ISBN: 978-84-09-43854-9]. September 21 – 23 2022
88		Low temperature NO ₂ gas sensors with high efficiency	Invited Lecture	2nd Int'l Conference on Advanced Functional Materials and Devices" (AFMD-2023), organized by Atma Ram Sanatan Dharma College (University of Delhi) Dhaura Kuan, New Delhi – 110 021, INDIA. March 13–15, 2023

89	Prof. Arijit Chowdhuri (Physics)	Low temperature operated highly efficient NO ₂ gas sensors	Invited Lecture	International Conference on Electron Microscopy (EMSI – 2023) organized by Electron Microscopy Society of India and University of Delhi at Conference Centre, University of Delhi, Delhi, INDIA. February 08 – 10, 2023
90		Cathode Ray Oscilloscope (CRO) – Basic working principle and applications	Resource Person	One Week National Workshop for non- teaching staff on Skill Enhancement” at Hindu College, University of Delhi, University Enclave, Delhi – 110 007, INDIA. June 12-16, 2023
91		Industry-Academia Collaboration for Women-led Innovation and Economic Growth in Northeast India: Skill Development and NEP	Speaker	Sustainability, Innovation and Entrepreneurship in Northeast India Conference held at Miranda House, University of Delhi, Delhi – 110 007, INDIA. March 28 – 29, 2023
92		Correlation between Pulsed Laser Energy and magnetic property of BiFeO ₃ thin films	Paper presented	2nd Int’l Conference on Advanced Functional Materials and Devices (AFMD-2023), organized by Atma Ram Sanatan Dharma College (University of Delhi) Dhaula Kuan, New Delhi – 110 021, INDIA pp 159. March 13-15, 2023
93		Room temperature NO ₂ sensing performance of WO ₃ coated Quartz Crystal Microbalance (QCM)	Paper presented	2nd Int’l Conference on Advanced Functional Materials and Devices (AFMD-2023), organized by Atma Ram Sanatan Dharma College (University of Delhi) Dhaula Kuan, New Delhi – 110 021, INDIA pp 230. March 13-15, 2023

94	Prof. Arijit Chowdhuri (Physics)	CdS thin film based QCM sensor for the efficient detection of NO ₂ gas at room temperature	Paper presented	2nd Int'l Conference on Advanced Functional Materials and Devices (AFMD-2023), organized by Atma Ram Sanatan Dharma College (University of Delhi) Dhaula Kuan, New Delhi – 110 021, INDIA pp 242. March 13-15, 2023
95		Development of triboelectric Nanogenerator based on Lead Free KNN-PVDF Composite	Paper presented	2nd Int'l Conference on Advanced Functional Materials and Devices (AFMD-2023), organized by Atma Ram Sanatan Dharma College (University of Delhi) Dhaula Kuan, New Delhi – 110 021, INDIA pp 257. March 13-15, 2023
96		Correlation between Pulsed Laser Energy and magnetic property of BiFeO ₃ thin films	Paper presented	International Conference on Electron Microscopy (EMSI – 2023) organized by Electron Microscopy Society of India and University of Delhi at Conference Centre, University of Delhi, Delhi, INDIA pp 338. February 08 – 10, 2023
97		Enhanced resistive switching characteristics in BFO/WO ₃ bilayer thin film structure	Paper presented	International Online Conference on Nano Materials (ICN 2022) organized by Mahatma Gandhi University, P.D Hills P.O, Kottayam, Kerala, India. August 02 – 14, 2022
98	Prof. Arijit Chowdhuri (Physics) Prof. Charu Khosla Gupta (Botany)	Estimating air pollution tolerance index of some native tree species in Delhi using UV-Vis spectroscopy”	Paper presented	2nd Int'l Conference on Advanced Functional Materials and Devices” (AFMD-2023), organized by Atma Ram Sanatan Dharma College (University of Delhi) Dhaula Kuan, New Delhi – 110 021, INDIA pp 143. March 13-15, 2023

99	Estimation of particulate matter exposure experienced by an undergraduate student in Delhi on a daily basis	Paper presented	2nd Int'l Conference on Advanced Functional Materials and Devices (AFMD-2023), organized by Atma Ram Sanatan Dharma College (University of Delhi) Dhaura Kuan, New Delhi – 110 021, INDIA pp 162. March 13-15, 2023
100	Microbes as natural crusader for pollutants in air	Paper presented	7th Annual International Conference of Indian Network for Soil Contamination Research (INSCR), pp 140. November 08-11, 2022
101	Air Pollution Tolerance Index (APTI) – a tool to measure pollution tolerance in some native trees of Delhi	Paper presented	7th Annual International Conference of Indian Network for Soil Contamination Research (INSCR), pp 159. November 08-11, 2022
102	Modulating the environment with microbes	Poster presented	7th Annual International Conference of Indian Network for Soil Contamination Research (INSCR), pp 159. November 08-11, 2022
103	The New Face of Education Beyond the Realms of the Regular Classroom: Innovation in Practice	Paper presented	International Conference on Education 2023 (ICEDU 2023) Bangkok, Thailand pp 106 [ISBN 978-624-5746-34-7]. March 16 – 17, 2023
104	The New Education Policy (NEP) – a Step Towards Equity in Education in India	Paper presented	International Conference on Education 2023 (ICEDU 2023), Bangkok, Thailand pp 106 [ISBN 978-624-5746-34-7]. March 16 – 17, 2023

105	Prof. Sunita Hooda Prof. Geetu Gambhir (Chemistry) Dr Sanjeeta Rani Prof. Arijit Chowdhuri (Physics)	Enhanced thermal stability of bio-degradable polymer and graphene oxide blend with inverse spinel iron oxide nanomaterial	Paper presented	International Conference on Nanotechnology: Opportunities & Challenges (ICNOC – 2022), Jamia Millia Islamia, New Delhi , INDIA pp-C 153. November 28 – 30, 2022
106	Prof. Rachna Joshi (Physics)	Towards development of Hydrogen fuel : For clean and safe environment (Study of properties of Hydrogen atom under pressure)	Paper presented	In 7th International Conference of Indian Network for Soil Contamination Research (INSCR), “Modulating the Environment with Microbes”, November 08-11, 2022
107	Dr V Bhasker Raj (Physics)	SAW Multi Sensor Array for the Detection of Different Vapors by Applying Artificial Neural Network	Paper presented	8th International conference on sensors engineering and electronics instrumentation advances (SEIA'22) 21-23 September 2022, Corfu, Greece
108	Prof. Sarita Kumar (Zoology)	Management of Aedes-borne diseases through vector management using an IGR- Diflubenzuron	Paper presented	2nd International Conference on Natural Products and Human Health-2022, Deshbandhu College, University of Delhi (pp. 188-189). ISBN No.: 978-93-95133-02-9. November 04-06, 2022
109		Use of synergistic combination of β -cyfluthrin and PBO against <i>Aedes aegypti</i> larvae to alleviate adverse effects on humans and environment	Paper presented	2nd International Conference on Natural Products and Human Health-2022, Deshbandhu College, University of Delhi, (pp. 244-245). ISBN No.: 978-93-95133-02-9. November 04-06, 2022

110	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Morphological and molecular identification of unicellular ciliate, Colpoda n. sp. isolated from sewage treatment plant (STP), Jasola, Delhi	Poster Presentation	44th All India Cell Biology conference and International symposium on molecular & cellular insights of human diseases organized by Department of Biochemistry, University of Kashmir on September 2-3, 2022
111	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Insight into the hidden ciliate diversity of fresh water ecosystem of Delhi by metabarcoding approach	Poster Presentation	44th All India Cell Biology conference and International symposium on molecular & cellular insights of human diseases organized by Department of Biochemistry, University of Kashmir on September 02-03, 2022
112		Ciliates as model system for ecotoxicological studies	Poster Presentation	44th All India Cell Biology conference and International symposium on molecular & cellular insights of human diseases organized by Department of Biochemistry, "University of Kashmir on September 02-03, 2022
113		Physical, Chemical and Biological Analysis of Different Soil Ecotypes from Delhi, India	Poster Presentation	44th All India Cell Biology conference and International symposium on molecular & cellular insights of human diseases organized by Department of Biochemistry, "University of Kashmir on September 02-03, 2022

114		Bioinformatics analysis of heavy metal (cadmium and copper) binding proteins and cysteine-rich proteins in Tetmemena sp. SEJ-2015 to affirm their roles in heavy metal tolerance	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022.
115	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Insights into the hidden ciliate diversity of freshwater bodies of delhi by microscopic and metabarcoding approach	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022
116		Phylogenetic status of an Indian isolate Colpoda n. Sp. Using classical and molecular methods	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022.
117		Physical-chemical analysis and its correlation with the Ciliate diversity of the Yamuna river	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022.
118		Therapeutic application of metabolites in Ciliates	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022

119		An investigation into the bacterial prey selection habits among ciliates and its implications on optimizing their cultivation strategies in the laboratory	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022.
120	Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Morphology and morphogenetic description of a new ciliate species of Aponotohymena (Ciliophora; Oxytrichidae) from, fresh water sample of Delhi, India	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022
121		Characterization of a species of Blepharisma from Delhi, India”	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022
122		Morphological and molecular diversity of ciliates from freshwater sites of Delhi, India	Poster Presentation	Ciliate Molecular Biology Meeting 2023 held at Montpellier, France from June 26-29, 2023

123	Prof. Ravi Toteja Prof. Seema Makhija (Zoology) Dr Preeti Marwaha (Computer Science)	Use of machine learning and knowledge representation techniques to classify and organize the microbial information of polluted water in Delhi	Oral Presentation	3rd International Symposium on Ciliate Biology (ISCB) organized by Acharya Narendra Dev College and Maitreyi College in Collaboration with INSCR on November 08, 2022
124	Prof. Pooja Bhagat (Chemistry) Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Characterization of Acharya Narendra Dev College (ANDC) campus soil: A Pilot Project to access the soil quality”	Poster Presentation	44th All India Cell Biology conference and International symposium on molecular & cellular insights of human diseases organized by Department of Biochemistry, “University of Kashmir on September 2-3, 2022
125	Prof. Pooja Bhagat (Chemistry) Prof. Ravi Toteja Prof. Seema Makhija (Zoology)	Assessment of Heavy Metal Pollution Load in River Yamuna Using HPI	Poster Presentation	44th All India Cell Biology conference and International symposium on molecular & cellular insights of human diseases organized by Department of Biochemistry, “University of Kashmir on September 2-3, 2022
126	Prof. Monisha Khanna Kapur (Zoology)	Screening and molecular analysis of antifungal compounds from Streptomyces spp. against pathogenic fungi.	Paper Presented	International E-Conference on mitigating Contemporary Environmental issues by sustainable approaches. February 22-28, 2022

127		Evaluation of Bioactive compounds from <i>Streptomyces</i> spp. as an antifungal agent against diverse pathogenic fungi	Oral Presentation	7th Annual International Conference (INSCR) Modulating the Environment with Microbes organized by Ramjas College, University of Delhi, Delhi. November 11, 2022
128	Dr Monica Misra (Zoology)	Role of Indian Women in Science	Paper Presentation	7th International Conference of INSCR held at Acharya Narendra Dev College on November 11, 2022
129		Importance of Aquaculture (Zebrafish Lab)	Resource Person	National Workshop on “Career and Skill Enhancement” for Non-Teaching staff organized at Acharya Narendra Dev College on September 17, 2022

ANNEXURE II: LIST OF GB MEMBERS

S. No.	Name	Designation
1	Prof. Sudeshna Mazumdar Leighton	Chairperson
2	Prof. Rajeev Kaul	Treasurer
3	Dr Archana Pandey	Teacher Representative
4	Prof. Shallu Sachdeva	Teacher Representative
5	Prof. Ravi Toteja	Member-Secretary
6	Mr Ashutosh Bhatt	Non-Teaching Nominee

ANNEXURE III:

ACHARYA NARENDRA DEV COLLEGE

Staff Council Committees 2022-2023 (Permanent and Ad-hoc Faculty)

Admissions Committee	Workload and Time Table Committee	Examination Committee	Alumni Affairs Committee
All Teachers-in-Charges Convenors: 1. Prof. Seema Makhija 2. Dr Rashmi Sharma 3. Prof. Pankaj Khanna Foreign Language 1. Dr Geetika Kalra (Convenor) 2. Prof. Sunita Hooda	Joint Convenors: 1. Prof. Seema Gupta (Chemistry) 2. Prof. Laxmi Narain Co Convenors: 1. Dr Sanjeeta Rani 2. Prof. Sharanjit Kaur	1. Prof. Seema Gupta (Convenor) 2. Prof. Sharanjit Kaur 3. Dr Anita Narang 4. Prof. Anju Agrawal 5. Prof. Udaibir Singh 6. Dr Rajesh Chaudhary 7. Prof. Dinesh Kumar Arya 8. Prof. Arijit Chowdhuri SOL 1. Prof. Sunita Hooda (Supdt.) 2. Dr Sandeep Kumar Goel (Supdt.) 3. Mr Gaurav Sharma (Supdt.) 4. Mr Pawan Kumar (Supdt.) 5. Dr Neelgagan Singh (DS) 6. Dr Rahul Dev (DS) 7. Dr Ranjit Kaur (DS) 8. Dr Jitender Goel	Convenor + 1 from each Department (except Convenor's Department) 1. Dr Manisha Jain (Convenor) 2. Dr Ambika 3. Dr Satyapal Singh 4. Dr Vatsla Kohli 5. Prof. Arijit Chowdhuri 6. Ms Priyanka Sharma 7. Prof. Neelu Dheer 8. Prof. Shallu Sachdeva 9. Dr Sanjay Kumar 10. Mr Dev om

Sports Committee	Library Committee:	College Development Committee	SPICMACAY
Convenor + 4 members 1. Dr Chaman Singh (Convenor) 2. Mr Ravinder Kumar Sagar 3. Dr Satyapal Singh 4. Prof. Sada Nand Prasad 5. Dr Satya Parkash 6. Dr Ranjit Kaur 7. Dr Shrankhla 8. Mr Namonarayan Meena	Bursar All TICs or one teacher or Representative from each Department 1. Prof. Seema Gupta (Convenor)	Convenor + 2 members + Representative from each Department 1. Prof. Laxmi Narain (Convenor) 2. Dr Ranjeet Singh 3. Prof. Chandra Kant Samal 4. Dr Archana Pandey 5. Prof. Monisha Khanna Kapur 6. Dr Rohtash Singh 7. Dr Kavita Mittal	1. Dr Shalu Mahajan (Convenor) 2. Ms Priyanka Sharma 3. Ms Gauri Ghai Debating Society (Tark) 1. Dr Yasheshwar (Convenor) 2. Prof. Neelu Dheer 3. Prof. Shallu Sachdeva 4. Dr Joita Dhar Rakshit 5. Ms Ankita Rasaily 6. Prof. Vibha Gaur 7. Prof. Monisha Khanna Kapur

Fellowship Programs and Awards Committee	Proctorial Committee	Canteen Committee	Social Outreach Programs Committee (NSS) / UBA
1. Convener + 4-5 members	Convenor + 8-10 members (may be one from one department)	Convenor + 4 members (+ 2 Non-teaching members)	Convenor + Co-Convenor + 7-8 members
1. Prof. Anju Agrawal (Convenor)	1. Dr Monica Misra (Proctor)	1. Prof. Chandra Kanta Samal (Convenor)	1. Dr Sunita Jetly (Convenor)
2. Ms Seema Gupta (Maths) (Co-convenor)	2. Dr Vatsla Kohli	2. Mr Pawan Kumar	2. Dr Ravneet Kaur
3. Ms Poonam Chauhan	3. Prof. Udaibir Singh	3. Ms Seema Gupta (Maths)	3. Dr Sidharth (Co-Convenor)
4. Prof. Urmi Bajpai	4. Prof. Dinesh Kumar Arya	4. Dr Rashmi Sharma	4. Dr Sarita Agarwal
5. Prof. Pooja Bhagat	5. Mr Pawan Kumar	5. Prof. Rashmi Thukral	5. Mr Abhay Pratap Singh
6. Dr Pradeep Kumar Gupta	6. Dr Rajesh Chaudhary	6. Mr Namonarayan Meena	6. Dr Dipshikha
7. Dr Kavita Mittal	7. Dr Neelgagan Singh	7. Dr Narayan Singh	7. Dr Dinesh Kumar Verma
8. Ms Priyanka	8. Dr Sushma Bhardwaj	8. Prof. Charu Khosla Gupta	8. Dr Rakesh Sonkar
9. Dr Rimpay Kaur Chowhan	9. Ms Bhumika Chauhan		9. Mr Brijendra Yadav
10. Dr V Bhasker Raj	10. Mr Dev om		10. Ms Ankita Rasaily
11. CA Yask Sain	11. Dr Ranjit Kaur		11. Dr Deo Datta Arya
	12. Dr Rakesh Sonkar		
	13. Dr Deo Datta Arya		
	14. Dr Anita Narang		
	15. Dr Shalu Mahajan		

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