

NAAC ACCREDITATION
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ANNUAL REPORT '19

**ACHARYA NARENDRA
DEV COLLEGE**

... WHERE EDUCATION MAKES A DIFFERENCE ...



RETIREMENT FUNCTION: DR. SAVITHRI SINGH



**This Annual Report has been compiled by: Dr. Abhishek Kumar Mehta (Convenor),
Dr. Aparna Sharma and Mr. Abhay Pratap Singh.**

ANNUAL REPORT 2019

Acharya Narendra Dev College



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I. INTRODUCTION

This year the college witnessed a major transition Dr. Savithri Singh, who joined the college in November 2005, after successfully leading the college for a long period of thirteen years superannuated in November 2018. The college witnessed a change in leadership but the guiding principles i.e. zeal for excellence and perfection remains the same. The college still believes in *Beyond the Classroom* and *Preparing for the Future*. And I am sure that the college will keep this tradition alive in future as well.

This year also our faculty members have made the college proud not only at University level but at national arena. Dr. Urmi Bajpai, Associate Professor, Department of Biomedical Science was awarded the prestigious **Indian National Science Academy (INSA) Teachers Award 2018**. The award is made annually to recognize and honour teachers for providing guidance, inspiration and mentoring students to take up careers in Science and Technology. Each awardee is presented a scroll, a cash award of INR 50,000/- and a onetime book grant up to INR 20,000/-. Dr. Bajpai is one of the twelve recipients selected at National level for this award.

Dr. Seema Gupta of Chemistry Department and Dr. Seema Makhija of Zoology Department received **Best college lecturer award** by Directorate of Higher Education (DHE), Government of National Capital Territory of Delhi (GNCTD) for the year 2017-18 and 2018-19, respectively.

Dr. Satyapal Singh, a *Dronacharya* Awardee and a renowned Para-athletics coach, was recognized for his contributions by the GNCTD and was honored by cash award of INR Six Lakhs.

Dr. Charu K. Gupta of Botany Department has been selected for INSA Bilateral Exchange Programme-2019 and would be visiting Slovenia for two weeks.

The college has been very sensitive and always taken a lead for social and environmental issues. The college Eco-club *Paritantra* has been actively working towards sensitizing the college fraternity towards stopping the use of '*Single Use Plastics*' and has banned its use completely in the college. These efforts have resulted in the college being awarded by the '**Plastic Free College of the Year Award**' on the National Environment Convention-2018 by Indian Institute of Ecology and Environment, New Delhi.

This year the College has signed a Memorandum of Understanding (MoU) with Azim Premji University, a private University established under the Azim Premji University Act, 2010, Electronic City, Bangalore. The primary aim of the MoU is that Azim Premji

University is interested in generating science education resources in Indian languages. The college is interested in expansion of sciences, mathematics and their education in general. Both entities admit students to their undergraduate science programs many of whom are making a transition from education in their own languages to English as a medium of instruction. These interests provide a common ground for collaboration. It will include collaboration between their members including faculty and students on projects related to resource generation for science and mathematics pedagogy.

Our students have also made us proud. Purva and Rohini Bhatt of B.Sc.(H) Biomedical Science have scored I and III ranks respectively in the University Examinations in I-year. Rahul Chawla of B.Sc. (H) Electronics has topped University Examination in I year and Ashwani Varshney of B.Sc. (H) Computer Science has scored III rank at University level in II-year examination. Many others have got top ranks at University of Delhi, South Campus level.

Rohit R. Gokhale of B.Sc. (H) Biomedical Science I year has been selected for two-month Summer internship at La Jolla Institute of Immunology at San Diego, California. He would be given a fellowship of \$2000.

Under the active leadership of Mr. Manoj K. Garg, the college debating society TARK, has shown its mettle at various intercollege debating competitions. This has enhanced the confidence of students and enriched their communications skills.

Our students have been doing well in academics since its inception, but were not well known for their sports capabilities. Under the guidance of our sports teachers, our students have now proved them at intercollege sports meet of the University. Kajal Pandey of B.Sc. (H) Biomedical Science I year won Gold Medal in 20Km Walk and hence has been selected for inter university tournament. Devendra of B.Sc. (H) Botany III year won Bronze Medal in Javelin Throw. Mayank Aggarwal of B.Sc. Physical Science III year got First position in Delhi State Yoga Championship.

The college is proud of these talented students. The college has many scholarships to appreciate the meritorious students and support the needy students. This year two new scholarships – Asha Walia scholarship and Urmil Gupta scholarship have been instituted in the memory of Mother and Mother-in-law of Dr. Seema Gupta of Chemistry Department. She has donated a fund of INR One Lakh each for the institution of these two scholarships. Dr. Savithri Singh, ex-principal of the College has also instituted a fellowship by donating a sum of INR 2,00,000. The income from the fund will be used for an Award to the best UG student researcher at the College.

This year the College organized

1. **The International Symposium on Ciliate Biology 2018 (ISCB 2018)**, co-organized by Acharya Narendra Dev College, Maitreyi College and SGTB Khalsa College, University of Delhi, on April 04-06, 2018 at India Habitat Centre. The symposium was conducted in partnership with International Research Coordination Network for Biodiversity of Ciliates (IRCNC-BC), an affiliate society of International Society of Protistologists (ISOP).
2. Education Conclave, **“Education Deconstructed: Dialogues with Experts”**: The scope of the conclave was to deliberate among academics and academic administrators the new initiatives with education and pedagogy which ANDC has adopted.
3. In Collaboration with CSIR, the college also organized a **Mini Symposium on International Women’s Day** for raising awareness and highlighting women’s achievements in Indian Science.

Ms. Namrata Arora (Officiating Librarian) has completed her 25 years of service to the college. She is being awarded with *NISHTHA* service award for 2018-19.

There is a long list of achievements of both faculty and students which will follow in this annual report.

Dr. Ravi Toteja
Acting Principal

2. RESEARCH

Acharya Narendra Dev College believes in preparing students to take informed decisions for a career in Science. Hence, research at the UG level is promoted by the College through various schemes.

2.1. RESEARCH INITIATIVES AT THE UG LEVEL

2.1.1. ELITE – ‘Education in a Lively Innovative Training Environment’ Summer Fellowship: During the summer of 2018, 51 students of the College undertook projects of two-month duration under this scheme. Each student earned a fellowship of INR 1000/- p.m. with departments getting a contingency grant for the projects.

S. No.	Title of the Project	Mentor/s	Students
1	Study and extraction of medicinally important plant <i>S. chirata</i> & examination of chemical adulteration in food items	Dr. Pankaj Khanna, Dr. Kavita Mittal and Dr. Neeti Misra	Ankit Rai, Gunjan & Shivam Kumar B.Sc. (H) Chemistry, I Year
2	Physico-Chemical and Biological analysis of soil samples collected from ANDC	Dr. Ravi Toteja and Dr. Seema Makhija	Khusbhoo and Vanya B.Sc. (H) Zoology, II Year
3	Effect of Heavy Metals and Ethidium Bromide on DNA.	Dr. Ravi Toteja, Dr. Seema Makhija and Dr. Arijit Chowdhuri	Senjuti B.Sc. (H) Zoology, II Year Chaitanya Raj B.Sc. (H) Physics III Year
4	Natural history of butterfly diversity at ANDC	Dr. Sarita Kumar and Dr. Ravinder K Sagar	Shubahm Mohanty B.Sc. (H) Zoology, I Year
5	To understand the mechanism of learning and memory formation in <i>Achatina fulica</i>	Dr. Sarita Kumar and Dr. Ravinder K Sagar	Manisha B.Sc. (H) Zoology, I Year Shipra Yadav B.Sc. (H) Biomedical Science, I Year

S. No.	Title of the Project	Mentor/s	Students
6	Impact of climate change on Albatross	Dr. Sarita Kumar	Mohit Rajput B.Sc. Life Sciences, II Year
7	Computational analysis of immunogenic factors responsible for the growth of tumor	Dr. Gagan Dhawan	Purnendu Kumar B.Sc. (H) Biomedical Science, III Year
8	Green Synthesis, Characterization and Biological evaluation of metallic nanoparticles	Dr. Gagan Dhawan and Dr. Seema Gupta	Gaurav Agrawal, Priyanka Chauhan B.Sc. (H) Biomedical Science, III Year
9	Nanoparticle synthesis and their physicochemical characterization	Dr. Seema Gupta and Dr. Gagan Dhawan	Piyush Rana Akash Bharti Akarsh Pandey Tnish Dhir Sameer Gupta B.Sc. (H) Chemistry, II Year
10	Functional Analysis and Characterization of specific Mycobacteriophage Genes	Dr. Namita Singh; Dr. Abhishek Kumar Mehta and Dr. Urmi Bajpai	Amit Babu, Ashwin, Lucky, Muskan Jindal, Prachi, Preeti, Purva, Rohini, Samridhi Didwania, Sansi B.Sc. (H) Biomedical Science, I Year Sonanjali B.Sc. (H) Biomedical Science, II Year
11	Antibacterial activity of different solvent extracts obtained from	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Shreya Verma B.Sc. (H) Biomedical Science, II Year

S. No.	Title of the Project	Mentor/s	Students
	leaves of <i>Aeglemarmelos</i> (L.) Corr.		Sunaina B.Sc. (H) Chemistry, I Year
12	Bactericidal activity of seeds extracts of <i>Aeglemarmelos</i> (L.) Corr. using minimum inhibitory concentration and disc diffusion assay	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Varshini B.Sc. (H) Biomedical Science, II Year Gunjan B.Sc. (H) Chemistry, I Year
13	In vitro antibacterial activity of bark extract of <i>Aeglemarmelos</i> (L.) Corr. against gram positive and gram negative bacterial strains	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Yash Shukla B.Sc. (H) Biomedical Science, II Himani B.Sc. (H) Chemistry, I Year
14	Antibacterial properties of <i>Aeglemarmelos</i> (L.) Corr. fruit pulp extracts prepared in different organic solvents	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Deepak Pokhreal B.Sc. (H) Biomedical Science, II Year Shivam Kumar B.Sc. (H) Chemistry, I Year
15	Column chromatography assisted fractionation of active constituents of aegle marmelos leaves and their antibacterial activity	Dr. Archana Pandey and Dr. Satendra Singh	Varshini Padmanabhan, Shreya Verma, Riddhi Bhardwaj, Urooj Fatima B.Sc.(H) Biomedical Science, II Year
16	Security Device Development using Face Recognition Techniques "SWAN"	Dr. Ravneet Kaur Dr. Monika Bhattacharya	Pranjal Singh, Rohit Saini B.Sc.(H) Electronics, III Year
17	PUSTAK-Android Application Development	Dr. Ravneet Kaur Dr. Monika Bhattacharya	Ashutosh Singh, Vikram Bhardwaj B.Sc.(H) Electronics, III Year

S. No.	Title of the Project	Mentor/s	Students
18	Cell Phone Detector	Dr. Anju Agarwal Ms. Gauri Ghai	Abhishek Bhadana, Anmol Dogra, Avinash Kumar Lal, Shashank Nagar B.Sc.(H) Electronics, II Year
19	Digital Laboratory Thermometer	Dr. Ravneet Kaur Ms. Gauri Ghai	Chiradeep Das, Ritesh Raj B.Sc.(H) Electronics, III Year
20	B.A.T (Blind Assistance Toolkit)	Dr. Ravneet Kaur Dr. Anita Kumari	Rajat Mann, Lokender B.Sc.(H) Electronics, III Year
21	Laser Security and Music System	Dr. Ravneet Kaur Ms. Gauri Ghai	Akshansh Jha B.Sc.(H) Electronics, III Year
22	Text to Speech Converter	Dr. Ravneet Kaur Ms. Gauri Ghai	Aditya Raj Singh B.Sc.(H) Electronics, II Year
23	Discovery and genomic characterization of Mycobacteriophages and expression & purification of a recombinant protein	Dr. Urmi Bajpai	Ritam Das B.Sc. Life Science, II Year
24	ANDCCCPC	Dr. Sharanjit Kaur Dr. Harita Ahuja	Supriya Katyal Mudita Sanjive B.Sc. (H) Computer Science II Year
25	Online Ranking of Educational Web-Sites	Dr. Sharanjit Kaur	Prakhar Agrawal Shubhang Upadhyay
26	Automatic assignment evaluations	Dr. Sharanjit Kaur	Kartik Mishra Rahul Solanki B.Sc. Physical Science (CS) I Year

S. No.	Title of the Project	Mentor/s	Students
27	Designing a working PROSTHETIC LEG using advanced Arduino® applications	Dr. Arijit Chowdhuri	Adarsh Prasad B.Sc. Physical Science (Electronics), III Year
28	Environmental Monitoring	Dr. Charu K. Gupta and Dr. Arijit Chowdhuri	Manohar Singh Bisht and Medha Jha B.Sc. (H) Botany, III Year
29	Using optical technique of surface plasmon resonance (SPR) to detect adulteration in commodities including, honey, oil etc.	Dr. Arijit Chowdhuri, Dr. Charu K. Gupta and Dr. V. Bhasker Raj	Chaitanya Raj, Yogesh Shukla and Anshuman Tripathi B.Sc. (H) Physics, III Year
30	Quartz crystal microbalance and environmental science	Dr. Arijit Chowdhuri, and Dr. V. Bhasker Raj	Akash Gupta and Siddharth Das B.Sc. (H) Physics, III Year B.Sc. Physical Science (Electronics), III Year
31	Market research on commercial Gas sensors and Electronic Nose in India and abroad	Dr. Arijit Chowdhuri and Dr. Sandeep Kumar Goel	Shubham and Chirag Agarwal B. Com. (H), III Year

2.2. RESEARCH PROJECTS: EXTRAMURALLY FUNDED RESEARCH PROJECTS UNDER PROGRESS

Investigators	Title of the Project	Funding Agency	INR (Lakhs)
Dr. Arijit Chowdhuri (PI) Dr. Savithri Singh (Co-PI) Dr. Charu K. Gupta (Co-PI) (2015-2018)	Exposure-Response Assessment of Ambient Air Pollution (AAP) and Hg Contamination in Affected Cities of India and Slovenia: A Comparative Study	DST (Indo-Slovenia joint project)	16.11

Dr. Sarita Kumar (2018-2021)	Developing and documenting innovative practices for learning physics and biology through experimentation for children and young adults	DST Women Scientist Scheme-B Project	12.60
Dr. Urmi Bajpai (2018-2021)	Recombinant endolysins from mycobacteriophages: Exploring their anti-Mycobacterial potential	SERB-DST	46.702

2.3. RESEARCH SUPERVISION

2.3.1. Post-Doctoral Fellows/Foreign Students Pursuing Research under the Supervision of College Faculty

Supervisor (Department)	Post Doctoral Fellow	Area of Work and Date of Registration
Dr. Sarita Kumar (Zoology)	Dr. Shrankhla	UGC Post-doctoral Fellow since November, 2015
	Dr. Monika Mishra	CSIR Research Associate since April, 2017

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

Supervisor (Department)	Ph.D. Student	Area of Work and Date of Registration
Dr. Urmi Bajpai (Biomedical Science)	Jyoti Rani	Integrative modelling of metabolic reactions with transcriptomics data in type 2 diabetes associated comorbidity tuberculosis (Registration in September, 2016)
	Ritu Arora	Registered in November, 2017
Dr. Gagan Dhawan (Biomedical Science)	Indu Singh	Small molecule- and polymer-based bioactives: Design, synthesis and evaluation (Registered since August, 2016)
	Nishtha Agarwal	UPR and autophagy crosstalk: Potential antiviral strategy against chikungunya virus (Registered since August, 2016)
Dr. Sunita Hooda (Chemistry)	Drashya	Graphene oxide composite with polysaccharides for dye adsorption and catalysis applications (Registered in April, 2018)

Supervisor (Department)	Ph.D. Student	Area of Work and Date of Registration
	Srishti Kakkar	Diversification of pyrazinoindoles (Registered in December, 2018)
	Sahil Kohli	Synthesis and characterization of nanoparticles based catalyst application in organic chemistry (Registered in December, 2018)
Dr. Sharanjit Kaur (Computer Science) (Co-supervisor) along with Dr. Vasudha Bhatnagar (Supervisor)	Kirti Jain	Sampling large graphs (Registered November 2018)
Dr. Amit Garg (Electronics)	Vishal Dhingra	Growth and characterization of Graphene oxide loaded with nano crystalline ZnO clusters for gas sensing applications (Registered in December, 2014)
	Shani Kumar	Growth and characterization of a composite system based on reduced Graphene oxide for water purification application (Registered in December, 2014)
Dr. Udaibir Singh (Electronics)	Jyoti Kashyap	Study and analysis of structures of plasmonic solar cells (Registered in December, 2014)
	Manju Rani	Theoretical investigation of plasmonic solar cells (Registered in May, 2015)
	Ajay Kumar	Fabrication and Modelling of Perovskite based Solar Cell (Registered in October, 2018)
Dr. Chaman Singh	Kamna Sharma	Development and analysis of some inventory models with product stewardship (Registered in July 2016)
Dr. Sarita Kumar (Zoology)	Roopa Rani Samal	Biochemical Characterization of the development of resistance to neonicotinoids and pyrethroids in Indian strains of mosquitoes <i>Aedes aegypti</i> L. Diptera: Culicidae. (Registered in January, 2016)

Supervisor (Department)	Ph.D. Student	Area of Work and Date of Registration
	Vinay Singh Dagar	Evaluation of Emamectin Benzoate as a Potential Control Agent of Cotton Bollworm <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) (Registered in September, 2016)
	Kungreiliu Panmei	Studies on the effects of Lufenuron on the growth and development of insects. CSIR, JRF, (Registered in March, 2018)
	P. Lanbiliu	Evaluation of Insect Growth Regulators against Red Cotton Bug (<i>Dysdercus koenigii</i>). CSIR, JRF, (Registered in November, 2018)
Dr. Monisha Khanna Kapur (Zoology)	Prateek Kumar	Structural analysis of antimicrobial compounds from Actinobacteria and identification of their biosynthetic gene clusters (Registered in January, 2016)
Dr. Monisha Khanna Kapur (Zoology)	Munendra Kumar	Structural analysis and cloning of genes producing extracellular enzymes from Actinomycetes (Registered in November, 2017)
Dr. Seema Makhija and Dr. Ravi Toteja (Zoology)	S. Sripoorna	Ciliates as cellular tool to assess heavy metal toxicity (Registered in September, 2016)
	Jeeva S. Abhraham	Taxonomy, phylogeny and molecular systematics of fresh water ciliates from Delhi, India (Registered in November, 2017)
	Swati Maurya	Microorganisms as bio-indicators in diverse environment (Registered in 2018)

2.3.3. Ph.D. Thesis Submitted under the Supervision of ANDC Faculty

Supervisor (Department)	Name of the Student	Thesis Title and Submission date
Dr. Sarita Kumar (Zoology)	Aarti Sharma	Synthesis, Evaluation and Characterization of Phyto-mediated Silver Nano-composites against Indian Strain of Dengue Vector, <i>Aedes aegypti</i> L. (Diptera: Culicidae), August, 2018 Viva-voce: March, 2019

	Rajiv Kumar Shukla	Isolation, Identification and Biochemical Characterization of Bacteria as Potential Biological Control, October, 2018
Dr. Sunita Hooda (Chemistry)	Shyam Lal	Synthesis, characterization, kinetics and biological application of some metal complexes, June 2018.
Dr. Sharanjit Kaur (Computer Science)	Rakhi Saxena	Hierarchical Graph Decomposition for Scalable Network Analysis, February 2019

2.3.4. External students trained under ANDC Faculty in 2018-19

S.No	Supervisor (Department)	Candidate	Project Title
1	Dr. Ravi Toteja & Dr. Seema Makhija (Zoology)	Ms. Jyoti Dagar M.Sc Biotechnology in KU	A study on the physico-chemical & microbial diversity of soil (June 1-July 31, 2018)
2	Dr. Urmi Bajpai	Ms. Ruqaiyah Khan, M.Sc. Bioscience (IV Semester), Jamia Millia Islamia University, New Delhi	Isolation and characterization of Mycobacteriophages from soil and <i>in vitro</i> validation of activity of a phage promoter (January 1-April 10, 2019)
		Ms. Kanika Nadar, M.Sc. Applied Microbiology and Biotechnology (IV Sem), Banasthali Vidyapith University, Jaipur	Isolation and characterization of Novel Mycobacteriophages and <i>in vitro</i> analysis of a phage-derived recombinant LysinB (January 1-May 31, 2019)
		Ms. Faizya Khan, M.Sc. Biochemistry (IV Semester), Jamia Millia Islamia University, New Delhi	Isolation and characterization of novel Mycobacteriophages and purification of a phage-derived lytic enzyme (January 21-April 10, 2019)
		Ms. Ashna Nadeem, M.Sc. Biochemistry (IV Semester), Jamia Millia Islamia University, New Delhi	Discovery and characterization of Mycobacteriophages and <i>in vitro</i> analysis of a phage-derived esterase (January 21-April 10, 2019)

S.No	Supervisor (Department)	Candidate	Project Title
		Ms. Bhumika Singh, B.Tech Biotechnology (IV year), Amity University, Noida, Uttar Pradesh	Study of anti-mycobacterial activity of mycobacteriophage-derived lytic enzyme (January 18-April 7, 2019)
		Mr. Shivam Bhardwaj, M.Sc. Bioinformatics (IV Semester), CCCS University, Meerut, Uttar Pradesh	Phage Genome Annotation and CADD with <i>Mycobacterium tuberculosis</i> Mur enzymes as the drug targets (January 28-April 15, 2019)

3. AFFILIATE OF NATIONAL AND INTERNATIONAL ORGANISATIONS

3.1. UNIVERSITY OF DELHI AT ANDC SPIE STUDENT CHAPTER

Faculty Advisor: Dr. Amit Garg

Whooping record of 101 members in the Chapter make it perhaps one of the highest member Chapter in the world. Some of the projects allotted to students in the first round are

1. Facial Recognition
2. Biological Waste Segregation
3. Barcode Tagging
4. 3D Printer Resin Development
5. Wireless Electricity

SPIE Office bearers:

1. President- Rohit Saini B.Sc. (H) Electronics, III Year.
2. Vice-President- Chiradeep Das, B.Sc. (H) Electronics, III Year.
3. Secretary- Ritesh Raj, B.Sc. (H) Electronics, III Year.
4. Treasurer- Hardik Minocha, B.Sc. (H) Electronics, II Year.

Orientation Day: - SPIE Chapter at ANDC was involved in carrying out part of the Research sessions of 4 hours each on the Orientation Day held from July 20-23, 2018 that had an average of around 100 fresher's across all the departments. The Chapter members demonstrated two simple optics-based projects on Peppergram and Total Internal Reflection to the students along with the role of SPIE as a society at ANDC as well as internationally. The noteworthy contributions were of- Rohit Saini, Ritesh Raj, Vikram Bhardwaj, Akshansh Jha, Pranjal Singh and Ashutosh Singh.

SPIE International Conference at San Diego: - The SPIE Optics and Photonics Conference was held at San Diego, CA, USA from August 18-23, 2018 this year. Mr. Chiradeep Das, a student of B.Sc. (H) Electronics, Part III was awarded Officers' Travel Grant (OTG) to attend this conference with full funding from SPIE , USA. He demonstrated the phenomena of "Blue Sky and Red Sunset" at the Optics Outreach Games. He also presented a poster on the different activities of our Chapter and its current position as compared to other Chapters worldwide at a Poster Session. It was a great opportunity

for him and he returned with lots of ideas and inspirations for his fellow members of the Chapter.

Induction Workshop: - A two-day Induction Workshop was held from September 25-26, 2018 for SPIE members. The workshop had an invited talk by Prof. Joby Joseph, Department of Physics, IIT Delhi on the topic of “Fabrication of Nanophotonic Structures and some Applications”. Hands-on sessions were conducted during the workshop on projects like Water drop Microscope, Communication through Fiber-Optic cables, Laser Spirograph, Lissajous light patterns through vibration and Holography. Dr. Sanjay Kumar, Department of Physics was the resource person in setting up and recording the holograms. The workshop convener was Dr. Amit Garg.

Workshop at Deen Dayal Upadhyay College, DU: A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018. Two teams of 4 students each (Rohit Saini, Pranjal Singh, Ritesh Raj, Vikram Bhardwaj, Lokendra Singh, Rajat Mann, Gaurav Lokhna and Ashutosh Singh) were sponsored by our Chapter to attend and take part in the workshop. They learned various projects like basics of LED blinking; relay board working for actual home appliances, controlling circuit over Wi-Fi, managing practical data for application over internet along with various other things.

“Paradigm Shift in Physics Education through hands-on techniques in OPTICS” was organized in collaboration with “JOY OF LEARNING FOUNDATION, DELHI” on January 24, 2019 by University of Delhi at ANDC SPIE Student Chapter, Convener- Dr. Amit Garg.

3.2. SCIENCE SETU PROGRAMME@ ANDC

Coordinators: Dr. Urmi Bajpai, Dr. Seema Makhija and Dr. Anupama Shukla

Acharya Narendra Dev College, University of Delhi along with Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India organized a Science Setu Program at August 30, 2018 in the Seminar Hall. A total of 195 participants, including undergraduate students and research scholars from within the College, attended the program. Principal of the college, Dr. Savithri Singh, inaugurated the program. Dr. Pallavi Kshetrapal (Ramalingaswamy Fellow, THSTI), Dr. Shailaja Sopory, (Scientist E, THSTI) and Dr. Suchitra Devi Gopinath (Iyba Fellow, THSTI) gave interesting talk. A debate competition was organized for the students on the topic “Pursuing future careers in science in India v/s abroad” and the program concluded with a vote of thanks followed by the distribution of certificates to the participants (winners of the debate).

OPEN DAY @ THSTI

- Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India in collaboration with National Institute of Plant Genome Research organized an “Open Day @ THSTI” under the India International Science Festival 2018 on September 28, 2018 in the NCR Biotech Science Cluster, Faridabad.
- 25 students from various departments of Acharya Narendra Dev College attend this open day session along with two teachers, Dr. Namita Singh (Biomedical Science) and Dr. Manoj Kumar (Botany department).
- In ANDC, the program was coordinated by Dr. Seema Makhija, Associate Professor, Department of Zoology. More than 100 participants from various other colleges and schools were also invited at THSTI for the open day.
- The session began with inaugural welcome address by the Executive director of THSTI, Professor Gagandeep Kang (M.D., Ph.D.). Afterwards, small groups of students were made for lab visits and interactions with various scientists and research scholars.
- A poster session was also organized there where many researchers from THSTI and NIPGR presented their work. A science quiz competition was organized for college and school students followed by Mr Sopan Joshi talk. The program concluded with a vote of thanks and distribution of certificates.

Shadow a Scientist Program at THSTI

- Four students from Acharya Narendra Dev College were given the opportunity to visit the Translational Health Sciences and Technology Institute and work under their scientists for a period of one week from December 20, 2018 to December 28, 2018. They worked in the Pediatric Biology Centre (PBC) of THSTI.
- THSTI sponsored the travel allowance of one of our student Ms. Akhila A. of B.Sc. (H) Biomedical Science II Year to attend the Indian International Science Festival, which was organised by the **Ministry of Science and Technology, Ministry of Earth Sciences** in association with **Vijnana Bharati** at Indra Gandhi Pratishthan, Lucknow; held from October 5-8, 2018.

4. STUDENTS' CORNER

4.1. STUDENTS' ACHIEVEMENTS, SCHOLARSHIPS AND AID

4.1.1. Merit Positions in the University of Delhi

S. No.	Name	Course	Year	Rank in University
1	Purva	B.Sc.(H) Biomedical Science	I	I
2	Rohini Bhatt	B.Sc.(H) Biomedical Science	I	III
3	Rahul Chawla	B.Sc. (H) Electronics	I	I
4	Ashwani Varshney	B.Sc. (H) Computer Science	II	III

4.1.2. Merit Positions in the University of Delhi South Campus (UDSC)

S.No.	Name	Course	Year	Rank in UDSC
1	Purva	B.Sc.(H) Biomedical Science	I	I
2	Rohini Bhatt	B.Sc.(H) Biomedical Science	I	III
3	Rahul Chawla	B.Sc. (H) Electronics	I	I
4	Ashwani Varshney	B.Sc. (H) Computer Science	II	II
5	Divya Sharma	B.Sc. (H) Botany	I	III
6	Jatin	B.Sc. (H) Chemistry	II	III
7	Pawnesh Kumar Mishra	B.Sc. (H) Chemistry	II	III
8	Ayushi Raturi	B.Sc. (H) Zoology	II	III
9	Harveen Kaur	B.Sc. (H) Zoology	III	III
10	Sumran Karamchandani	B.Sc. Life Sciences	II	II
11	Surya Pratap Singh	B.Sc. Physical Sciences	II	III
12	Monal	B.Sc. Physical Sciences	III	I
13	M.Shridevi	B.Sc. Physical Sciences	III	III

4.1.3. Merit Positions in the College

S. No.	Name	Course	Year	Rank in college
1	Sakshi Goyal	B. Com. (H)	I	I

S. No.	Name	Course	Year	Rank in college
2	Ashish	B. Com. (H)	I	II
3	Saarthak Aggarwal	B. Com. (H)	I	II
4	Pooja Jakhar	B. Com. (H)	I	III
5	Purva	B.Sc. (H) Biomedical Science	I	I
6	Rohini Bhatt	B.Sc. (H) Biomedical Science	I	II
7	Riya Srivastava	B.Sc. (H) Biomedical Science	I	III
8	Divya Sharma	B.Sc. (H) Botany	I	I
9	Bhaskar Jyoti Parasar	B.Sc. (H) Botany	I	II
10	Mansi Pant	B.Sc. (H) Botany	I	III
11	Priyanka Bagadwal	B.Sc. (H) Chemistry	I	I
12	Sunaina Sardana	B.Sc. (H) Chemistry	I	II
13	Manvi Sharma	B.Sc. (H) Chemistry	I	III
14	Rahul Chawla	B.Sc. (H) Electronics	I	I
15	Aditya Raj Singh	B.Sc. (H) Electronics	I	II
16	Lata Singh	B.Sc. (H) Electronics	I	III
17	Deepak Kumar	B.Sc. (H) Mathematics	I	I
18	Poonam	B.Sc. (H) Mathematics	I	I
19	Rachna Sharma	B.Sc. (H) Mathematics	I	II
20	Sanjna Bhardwaj	B.Sc. (H) Mathematics	I	III
21	Vikhyat Sharma	B.Sc. (H) Physics	I	I
22	Mohit Kumar	B.Sc. (H) Physics	I	I
23	Shivam Tiwari	B.Sc. (H) Physics	I	II
24	Sachin Upreti	B.Sc. (H) Physics	I	III
25	Anmol Singh	B.Sc. (H) Zoology	I	I
26	Jitumoni Sharma	B.Sc. (H) Zoology	I	I
27	Adwait Mishra	B.Sc. (H) Zoology	I	II
28	Deepika Joshi	B.Sc. (H) Zoology	I	III
29	Kalpiti Rani	B.Sc. (H) Zoology	I	III
30	Mehul Narang	B.Sc. (H) Zoology	I	III
31	Muskan Yadav	B.Sc. (H) Zoology	I	III
32	Sanju Kumari	B.Sc. (H) Zoology	I	III
33	Ishan Ahmad	B.Sc. (H) Computer Science	I	I

S. No.	Name	Course	Year	Rank in college
34	Aman Raj Singh	B.Sc. (H) Computer Science	I	II
35	Himani Pahuja	B.Sc. (H) Computer Science	I	III
36	Kartik Mishra	B.Sc. Physical Sciences	I	I
37	Prashank Bhardwaj	B.Sc. Physical Sciences	I	I
38	Afshin Ashraf	B.Sc. Physical Sciences	I	II
39	Yatesh Sharma	B.Sc. Physical Sciences	I	III
40	Koyna Chatterjee	B.Sc. Life Sciences	I	I
41	Garima	B.Sc. Life Sciences	I	II
42	Shivani Panchal	B.Sc. Life Sciences	I	III
43	Rishabh Chhabra	B. Com. (H)	II	I
44	Chirag Aggarwal	B. Com. (H)	II	II
45	Ritika Goyal	B. Com. (H)	II	II
46	Prateek Khurana	B. Com. (H)	II	III
47	Bhavya Saini	B.Sc. (H) Biomedical Science	II	I
48	Varshini Padmana Bhan	B.Sc. (H) Biomedical Science	II	II
49	Harman Preet Kaur	B.Sc. (H) Biomedical Science	II	III
50	Manohar Singh Bisht	B.Sc. (H) Botany	II	I
51	Shubhangi Pandey	B.Sc. (H) Botany	II	II
52	Hemant Singh	B.Sc. (H) Botany	II	III
53	Jatin	B.Sc. (H) Chemistry	II	I
54	Pawnesh Kumar Mishra	B.Sc. (H) Chemistry	II	I
55	Saloni Chhabra	B.Sc. (H) Chemistry	II	II
56	Arpan	B.Sc. (H) Chemistry	II	II
57	Raj Kamal	B.Sc. (H) Chemistry	II	III
58	Vikram Bhardwaj	B.Sc. (H) Electronics	II	I
59	Ritesh Raj	B.Sc. (H) Electronics	II	II
60	Ravneet Kr. Yadav	B.Sc. (H) Electronics	II	III
61	Jagriti Purwar	B.Sc. (H) Mathematics	II	I
62	Charu Singh	B.Sc. (H) Mathematics	II	II
63	Tarun Kumar	B.Sc. (H) Mathematics	II	II

S. No.	Name	Course	Year	Rank in college
64	Mohd Junaid Alam	B.Sc. (H) Mathematics	II	III
65	Muskan Misra	B.Sc. (H) Physics	II	I
66	Shivam Sharma	B.Sc. (H) Physics	II	II
67	Komal Gupta	B.Sc. (H) Physics	II	II
68	Anshuman	B.Sc. (H) Physics	II	III
69	Ayushi Raturi	B.Sc. (H) Zoology	II	I
70	Ayshna Kukreja	B.Sc. (H) Zoology	II	II
71	Ishita Gupta	B.Sc. (H) Zoology	II	II
72	Khushboo	B.Sc. (H) Zoology	II	III
73	Ashwani Varshney	B.Sc. (H) Computer Science	II	I
74	Supriya Katyal	B.Sc. (H) Computer Science	II	II
75	Mudita Rastogi	B.Sc. (H) Computer Science	II	III
76	Surya Pratap Singh	B.Sc. Physical Sciences	II	I
77	Robin Singh	B.Sc. Physical Sciences	II	II
78	Himanshu Panchal	B.Sc. Physical Sciences	II	III
79	Hitesh Kumar	B.Sc. Physical Sciences	II	III
80	Sumran Karamchandani	B.Sc. Life Sciences	II	I
81	Priyanka Yadav	B.Sc. Life Sciences	II	II
82	Gulnar Parveen	B.Sc. Life Sciences	II	III
83	Radhika Satija	B.Sc. Life Sciences	II	III
84	Anjali Juyal	B. Com. (H)	III	I
85	Swati Gupta	B. Com. (H)	III	II
86	Rishabh Makkar	B. Com. (H)	III	II
87	Jobin Babu	B. Com. (H)	III	III
88	Shailya Verma	B.Sc. (H) Biomedical Science	III	I
89	Sonia Trikha	B.Sc. (H) Biomedical Science	III	I
90	Chahat Chadha	B.Sc. (H) Biomedical Science	III	II
91	Deepanshi	B.Sc. (H) Biomedical Science	III	II
92	Jayati Khanna	B.Sc. (H) Biomedical Science	III	II
93	Shrutika Jha	B.Sc. (H) Biomedical Science	III	III
94	Rishabh Mirchandani	B.Sc. (H) Botany	III	I

S. No.	Name	Course	Year	Rank in college
95	Khush Mutha	B.Sc. (H) Botany	III	II
96	Pritam Kashyap	B.Sc. (H) Botany	III	II
97	Vaishnavi Tripathi	B.Sc. (H) Botany	III	II
98	Rinki Kumari	B.Sc. (H) Botany	III	III
99	Twinkle Garg	B.Sc. (H) Botany	III	III
100	Sreya Jana	B.Sc. (H) Chemistry	III	I
101	Simran Aggarwal	B.Sc. (H) Chemistry	III	II
102	Maneesha Chahar	B.Sc. (H) Chemistry	III	III
103	Abhishek Raiwani	B.Sc. (H) Electronics	III	I
104	Pawan Kumar	B.Sc. (H) Electronics	III	II
105	Rachit Agarwal	B.Sc. (H) Electronics	III	III
106	Shivangi Sinha	B.Sc. (H) Mathematics	III	I
107	Paramhans Kushwaha	B.Sc. (H) Mathematics	III	II
108	Ashish Yadav	B.Sc. (H) Mathematics	III	III
109	Mayank Shukla	B.Sc. (H) Physics	III	I
110	Jatinder Pal Singh	B.Sc. (H) Physics	III	I
111	Tarun Yadav	B.Sc. (H) Physics	III	II
112	Tapesh Gautam	B.Sc. (H) Physics	III	II
113	Shobhit Ranjan	B.Sc. (H) Physics	III	III
114	Harveen Kaur	B.Sc. (H) Zoology	III	I
115	Rashid Farooq Ganai	B.Sc. (H) Zoology	III	II
116	Pragya Sharma	B.Sc. (H) Zoology	III	III
117	Suman Dhull	B.Sc. (H) Zoology	III	III
118	Bhanu Pratap Singh	B.Sc. (H) Computer Science	III	I
119	Shubham Sharma	B.Sc. (H) Computer Science	III	II
120	Vishwatimika Sriwastava	B.Sc. (H) Computer Science	III	II
121	Meghna Chaki	B.Sc. (H) Computer Science	III	III
122	Monal	B.Sc. Physical Sciences	III	I
123	M.Shridevi	B.Sc. Physical Sciences	III	II

S. No.	Name	Course	Year	Rank in college
124	Vivek Kumar	B.Sc. Physical Sciences	III	III
125	Aditi Sharma	B.Sc. Life Sciences	III	I
126	Shumeila	B.Sc. Life Sciences	III	II
127	Chandni Brar	B.Sc. Life Sciences	III	III
128	Sarthak Khurana	B.Sc. Life Sciences	III	III

4.1.4. Scholarships and Awards

4.1.4.1. Best Student Silver Jubilee Award

An award of INR 10,000/- was instituted in 2016, to commemorate the Silver Jubilee Year of the College, for 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. Shrutika Jha, B.Sc. (H) Biomedical Science, III Year was selected for the Best Student Silver Jubilee Award for the academic session 2017-18.

4.1.4.2. Science Meritorious Award (Faculty of Science, University of Delhi)

Name of the Student	Course	Amount (Rs.)
Ayushi Raturi	B.Sc. (H) Zoology III Year	INR 3000/-
Divya Sharma	B.Sc. (H) Botany II Year	INR 3000/-
Bhaskar Jyoti Parasar	B.Sc. (H) Botany II Year	INR 3000/-

4.1.4.3. Dr. (Ms) Usha Aggarwal Tejaswini Scholarship

This scholarship is awarded to the student of B.Com (H) III Semester who has secured highest percentage of marks in the college in the University examination for II Semester. The amount of scholarship is INR 3500/-. This year Mr. Saarthak Agarwal of B.Com (H) II Year qualified for this scholarship.

4.1.4.4. Sh. Sultan Chand Endowment Scholarship

This scholarship is awarded to a student of B.Com (H) III Year who secures the second highest percentage of marks in the college in B.Com (H) II Year University examination. The amount of scholarship is INR 3500. Since, two students qualify for this scholarship this year, the value of the scholarship shall be divided equally amongst them. The following students were awarded this scholarship this year:

Chirag Aggarwal
Ritika Goel

(INR 1750/-)
(INR 1750/-)

4.1.4.5. D. C. Arora Scholarship

This fellowship is awarded in two categories, needy and meritorious. Each of these categories comprises of 2 scholarships of INR 6000/- each to the students of science courses.

Needy Category

- | | |
|--|------------|
| 1. Ms. Pooja Ranjan B.Sc. (H) Computer Sc. (2018-21) | INR 6000/- |
| 2. MD Zeeshan B.Sc. (H) Chemistry (2017-20) | INR 6000/- |

Meritorious Category

- | | |
|--|------------|
| 1. Mr. Robin Singh B.Sc. Physical Sc. with Comp. Sc. (2016-19) | INR 6000/- |
| 2. Mr. Prahlad Prajapat B.Sc. (H) Electronics (2018-21) | INR 6000/- |

4.1.4.6. Pushpa Paul Memorial Scholarship

The fellowship is for two meritorious girl students with a vision for the future. Under this fellowship, INR 15,000/- is given to the selected students.

- | | |
|---|-------------|
| 1. Ms. Sunena Kumar B.Sc. Physical Sc. with Electronics (2017-20) | INR 15000/- |
| 2. Ms. Pooja Kumari B.Sc. Physical Sc. with Comp. Sc. (2016-19) | INR 15000/- |

4.1.4.7. 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 INR 15,000/- each, for needy students of the Department of Electronics (academic session 2016-17 onwards). This year the fellowship was awarded to:

- | | |
|---|-------------|
| 1. Mr. Rahul Chawla B.Sc. (H) Electronics (2017-20) | INR 15000/- |
| 2. Mr. Phulendra B.Sc. (H) Electronics (2018-21) | INR 15000/- |

4.1.4.8. Krishna Toteja Memorial Scholarship

The fellowship was started from the academic session 2016-17 by a faculty member, Dr. Ravi Toteja, in the memory of his mother. One fellowship of INR 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 fellowship is awarded to Mr. Sanju of B.Sc. (H) Zoology (2017-20).

4.1.4.9. Asha Walia Scholarship

Dr. Seema Gupta, Associate Professor, Department of Chemistry of the college has donated INR 1,00,000/- for the institution of a scholarship of INR 6,000/- in her

Mother's name. The Fund will be called 'Asha Walia Memorial Scholarship'. This year the scholarship has been awarded to Mr. Manish of B.Sc. Life Science (2018-21).

4.1.4.10. Urmil Gupta Scholarship

Dr. Seema Gupta, Associate Professor, Department of Chemistry of the college has donated INR 1,00,000/- for the institution of a scholarship of INR 6,000/- in her Mother-in-law's name. The Fund will be called 'Urmil Gupta Memorial Scholarship'. This year the scholarship has been awarded to Mr. Neeraj of B.Sc. (H) Chemistry (2018-21).

4.1.4.11. 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, INR 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:

1. Full fee waiver (Except Security Deposit) (A)
2. A stipend of Rs.1000/- per month for ten months (B)
3. Stationery + photocopying upto INR 3000/- for the academic year (C)
4. Book-bank aid (5 books for every grantee)
(given to all candidates selected for SAKSHAM) (D)

This year, the following students were supported in one or more of the above categories:

S No	Name	Course	Form Of Aid
1	Amar Singh	B.Com (H) 2018-21	C
2.	Harinath Yadav	B.Sc. (H) Computer Science 2017-20	B
3.	Manish	B.Sc. (H) Electronics 2016-19	B
4.	Kapil Porwal	B.Sc. (H) Electronics 2016-19	B
5.	Komal	B.Sc. (H) Biomedical Science 2016-19	B
6.	Shrishti	B.Sc. (H) Biomedical Science 2017-20	B
7	Minta Thomas	B.Sc. (H) Biomedical Science 2017-20	B
8	Nain Ruhela	B.Sc. (H) Biomedical Science 2018-21	B
9	Bhaskar Jyoti Prakash	B.Sc. (H) Botany 2017-20	A
10	Beeru Verma	B.Sc. (H) Botany 2018-21	B
11	Anjana	B.Sc. (H) Botany 2018-21	B

S No	Name	Course	Form Of Aid
12	Aayush Chandra Jha	B.Sc. (H) Botany 2018-21	C
13	Rajkamal	B.Sc. (H) Chemistry 2016-19	B
14	Shivam Kumar	B.Sc. (H) Chemistry 2017-20	B
15	Md Zeeshan	B.Sc. (H) Chemistry 2017-20	A
16	Sunaina Sardana	B.Sc. (H) Chemistry 2017-20	B
17	Ramandeep	B.Sc. (H) Chemistry 2018-21	A
18	Neeraj	B.Sc. (H) Chemistry 2018-21	D
19	Saksham Dosar	B.Sc. (H) Chemistry 2018-21	B
20	Nilesh Singh	B.Sc. (H) Mathematics 2017-20	A
21	Sachin Mishra	B.Sc. (H) Mathematics 2017-20	B
22	Sumit Kumar Sha	B.Sc. (H) Mathematics 2018-21	A
23	Vaibhav Mishra	B.Sc. (H) Mathematics 2018-21	B
24	Lovepreet	B.Sc. (H) Mathematics 2018-21	B
25	Akash Gupta	B.Sc. (H) Physics 2016-19	B
26	Shivam Tiwari	B.Sc. (H) Physics 2017-20	B
27	Tushar Mishra	B.Sc. (H) Physics 2018-21	A
28	Subhash Chandravanshi	B.Sc. (H) Physics 2018-21	A
29	Simran Gupta	B.Sc. Life Sciences 2017-20	D
30	Rachna Dhure	B.Sc. Life Sciences 2018-21	A
31	Hitesh Kumar	B.Sc. Physical Science (Chemisrty) 2016-19	B
32	Rakshit Pratap Singh	B.Sc. Physical Science (Chemisrty) 2016-19	B
33	Suhani	B.Sc. Physical Science (Chemisrty) 2017-20	B
34	Sourabh	B.Sc. Physical Science (Chemisrty) 2018-21	A
35	Robin Singh	B.Sc. Physical Science (Computer Science) 2016-19	C
36	Javed Akhtar	B.Sc. Physical Science (Computer Science) 2016-19	A
37	Ankit Kumar	B.Sc. Physical Science (Computer Science) 2016-19	B

S No	Name	Course	Form Of Aid
38	Aman Kumar	B.Sc. (H) Computer Science 2018-21	B
39	Akshansh Dhiryan	B.Sc. (H) Computer Science 2018-21	B
40	Mukesh Kumar	B.Sc. (H) Computer Science 2018-21	A
41	Harsh Kumar	B.Sc. (H) Computer Science 2018-21	B
42	Anil Kumar Yadav	B.Sc. (H) Computer Science 2018-21	B
43	Lalit Shukla	B.Sc. (H) Electronics 2018-21	A
44	Phulendra	B.Sc. (H) Electronics 2018-21	C
45	Yash Varshney	B.Sc. (H) Electronics 2018-21	C
46	Islam Mulk	B.Sc. (H) Electronics 2018-21	A

4.1.4.12. 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 faculty in the Department of Computer Science who passed away at an early age. There are six fellowships worth INR 6,000/- each and is awarded to needy cum deserving students of B.Sc. (H) Electronics and B.Sc. Physical Sciences (Computer Science). This year the following students were selected for the award:

- | | |
|---|------------|
| 1. Mr. Ashutosh Mani Tripathi B.Sc. (H) Electronics (2018-21) | INR 6000/- |
| 2. Mr. Ram Avatar B.Sc. (H) Electronics (2016-19) | INR 6000/- |
| 3. Mr. Mohan Dubey B.Sc. (H) Electronics (2016-19) | INR 6000/- |
| 4. Mr. Robin Singh B.Sc. Physical Sc. with Comp. Sc. (2016-19) | INR 6000/- |
| 5. Ms. Riya Arora B.Sc. Physical Sc. with Comp. Sc. (2016-19) | INR 6000/- |
| 6. Mr. Nitesh Kumar B.Sc. Physical Sc. with Comp. Sc. (2018-21) | INR 6000/- |

4.1.4.13. Award to “Topper Meritorious Students of Academic Session of 2017-18 studying in GNCTD funded Colleges”

The Directorate of Higher Education, Government of NCT of Delhi rewards the toppers from Delhi Government funded colleges of University of Delhi. For 2017-2018 Rahul Chawla of B.Sc.(H) Electronics I Year was awarded Topper Meritorious Award of INR 10,000.

4.1.4.14. 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 would be used to award a scholarship of INR 10,000 to a girl candidate from B.Sc. (H) Botany. This year based on recommendation of selection committee the scholarship has been awarded to Ms. Pooja of B.Sc. (H) Botany III Year.

4.1.5. 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 bag positions at national and international platforms.

4.1.5.1. Awards Won by Students in Various Conferences /Competitions

Name of the Student, Course	Details of the Event
Ritam Das, B.Sc. Life Sciences, II Year	D D Kosambi Young Scientist Award' by HBCSE, TIFR, Mumbai on February 24, 2019
Subham Mohanty, B.Sc. (H) Zoology, II Year	K S Krishnan Student Mentor Award" by HBCSE, TIFR, Mumbai on February 24, 2019
Mansi Arora and Rohit Gokhale B.Sc. (H) Biomedical Science, I Year	Received 1st prize in debate organised at ANDC by THSTI under Science Setu programme, 2018 Won interdepartmental debate competition organized by TARK, ANDC
Gaurav Aggarwal and Priyanka Chauhan B.Sc. (H) Biomedical Science III Year	Won best poster award at 6th world congress on Nanomedical Sciences January 7-9, 2019, Vigyan Bhawan New Delhi
Sibaram Sadangi B.Sc. (H) Biomedical Science III Year	Best team prize in debate competition organized by RCB regional centre of biotechnology "Personalised medicine promises sustainable healthcare in the future" 2nd position (team) in debate competition organized by Indian Academy of Science and Indian National Science Academy
Deepak Sahni B.Sc. (H) Biomedical Science, III Year	Selected for INSA internship 2018 Worked in IISER- Pune in Chromosome Biology lab

Senjuti Sengupta B.Sc. (H) Zoology III Year Chaitanya Raj B.Sc. (H) Physics III Year	Best paper award at National Seminar on 'New Trends in Nanotechnology and Applications' organized by Department of Physics, Atma Ram Sanatan Dharma College, September 2018.
Rohit Gokhale B.Sc. (H) Biomedical Science, I Year	Selected for internship at La Jolla Institute of Immunology, San Diego, California, June – July, 2019 (Fellowship \$2000 for two months)
Chandan K. Rajak B.Sc. (H) Biomedical Science, I Year	Selected for SRFP 2019 (JNCASR) (Fellowship INR 10,000/- p.m.)

4.1.5.2. Participation by Students in Various Conferences/Workshops

Name of the Student, Course	Details of the Event
Subham Mohanty, Komal Kotra B.Sc. (H) Zoology Ritam Das, Simran Gupta, Garima Kalakoti B.Sc. Life Sciences	CUBE Clear Workshop, conducted by Homi Bhabha Centre for Science Education, TIFR, Mumbai, Feb 22-25, 2019.
Sibaram Sadangi B.Sc. (H) Biomedical Science, III Year	Best of American Society of Clinical Oncology (ASCO) conference, Indian Society of Clinical Oncology National conference "Emerging trends and advancement in chemical sciences", St. Stephan's College, DU Participated as delegate in ISCO preceptorship programme on Non-small cell lung cancer organized by Indian society of Clinical Oncology.
Sonanjali Aneja, Purva, Rohini Bhatt, Sansi, Amit Babu, Prachi, Samridhi, Muskaan, Lucky, Akhila A., Ashwin, Preeti B.Sc. (H) Biomedical Science	Attended summer school at JNU including Oral pre Workshops on: a) NGS Data Analysis b) Drug Discovery c) Biosensors June 18 -July 29, 2018.

Name of the Student, Course	Details of the Event
Koyel, Naman, Amit Babu, Shrishti, K. Gautam, Prachi, Arundhati, Muskaan, Aatiruddin, Alisha Ansari, Amit, Annie Batra, Arpit Sharma, Bhaskar, Chandan, Dipesh, Jayshree, Kaustav, Mansi Arora, Mrittika, Muskan, Somak, Sudeepta, Tamanna B.Sc. (H) Biomedical Science	Participated in Open day session (lab visit) at IGIB, 2018
Riya, Amit Babu, Abhijit, Lucky, Akhila A. B.Sc. (H) Biomedical Science	Attended Science Setu seminar and Open day at THSTI, Faridabad (2018)
Amit Babu B.Sc. (H) Biomedical Science, II Year	Participated in National Entrepreneurship Summit at IIT Bombay (2018)
Amit Babu, Abhijit, Harshita B.Sc. (H) Biomedical Science, II Year	Participated at PM YUVA Introductory Workshop (2018)
Abhijit B.Sc. (H) Biomedical Science, II Year	Attended One Day Workshop on Primary Accident Trauma Care Course (Indraprastha Hospital) 2018 Participated in Workshop on 'Sexual Harassment at Work Place Act' ICC JNU 2018
Aatiruddin, Annie Batra, Arpit Sharma, Bhaskar, Dipesh, Kamakshi, Mansi Arora, Muskan. Somak, Sudeepta, Navodita, B.Sc. (H) Biomedical Science, I Year	Participated in Open day at Regional Centre for Biotechnology, 2018
Nisha Kesari B.Sc. (H) Biomedical Science, I Year	Participated in Conference organised by IPCA on Metaflammation a link between Inflammation and Metabolic distress, 2018.
Shreya, Nisha Kesari B.Sc. (H) Biomedical Science, I Year	Participated in Conference organised by Heidelberg University on "GABAergic neuron and their functional implication in coordinated activity in local and remote neural network", held at Delhi.
62 students from B.Sc. (H) Biomedical Science, B.Sc. (H) Zoology and B.Sc. Life Sciences	TNQ Distinguished Lectures in Life Sciences: Genetic Disorders of Dietary Excess: Getting to the Heart of the Matter, by Prof. Helen H. Hobbs. AICTE Auditorium, JNU Campus, February 15, 2019.

4.1.5.3 Sports Awards (Delhi University Inter College Athletics Championships)

Delhi University Inter College Athletics (Men & Women) Championships 2018-19 were held at University Pologround on October 24-26, 2018. The following students raised the flag of the college at these events:

- i. Kajal Pandey B.Sc. (H) Biomedical Science I Year - Gold Medal in 20Km Walk, Hence, she was also selected for inter university tournament.
- ii. Devendra B.Sc. (H) Botany III Year - Bronze Medal in Javelin Throw.
- iii. Mayank Aggarwal B.Sc. (Physical Science) III Year got First position in Delhi State Yoga Championship.

4.2. THE STUDENTS' COUNCIL

The following students were elected for Students' Council:

Students' Council Post	Name of the Student	Course
Mayor	Harshvardhan Singh Chundavat	B.Sc. Life Science II year
Deputy Mayor	Yaduvinder	B.Sc.(Hons) Zoology II year
Council Secretary	Sonu	B.Com (H) II year
Council Treasurer	Rakesh kumar	B.Sc.(H) Physics II year
Cultural Secretary	Ashwani Varshney	B.Sc. (H) Computer Science

4.3. CLASS REPRESENTATIVES

Course	Year	Name
B.Sc. (H) Biomedical Science	I	Mansi Arora
	II	Akhila A
	III	Deepak Sahni
B.Sc. (H) Botany	I	Ms. Muskaan Bhatia
	II	Mr. Yash Gupta
	III	Mr. Manoj Kumar
B.Sc. (H) Chemistry	I	Ms. Anjali Wadhwa
B.Com (H)	IA	Mr. Parth Schdeva
	IB	Mr. Vansh Aggarwal
	IIA	Mr. Shivam Sethi

Course	Year	Name
B.Com (H)	IIB	Ms. Akansha Verma
	IIIA	Mr. Jatin Arora
	IIIB	Mr. Shubham
B.Sc. (H) Computer Science	I	Mr. Hritik Raj
	II	Mr. Kishan Sharma
	III	Mr. Prajwal Singh Gangwar
B.Sc. (H) Electronics	I	Mr. Karambir Sharma
	II	Mr. Ashish Kumar
	III	Mr. Kapil Porwal
B.Sc. (H) Mathematics	I	Mr. Anmol
	II	Mr. Nilesh Singh
	III	Mr. Neeraj Varshney
B.Sc. (H) Physics	I	Mr. Mohammed Nazim
	II	Mr. Rajendra Prasad
	III	Mr. Prem Shankar Jha
B.Sc. (H) Zoology	I	Mr. Ankit
	II	Ms. Deepali Singh
	III	Ms. Tanya Sharma
B.Sc. Life Science	I	Ms. Shreya Saxena
	II	Mr. Shubhendra Kumar
	III	Mr. Mayank Bajaj
B.Sc. Physical Science with Chemistry	I	Mr. Gaurav Dwivedi
	II	Mr. Divyansh. V. Singh
	III	Mr. Mahip Mayank
B.Sc. Physical Science with Electronics	I	Mr. Akash Kumar
	II	Mr. Sumit Karandev
	III	Mr. Praveen Kumar
B.Sc. Physical Science with Computer Science	I	Mr. Yash Verma
	II	Mr. Dinesh Kain
	III	Mr. Ravi Yadav

4.4. RESULT ANALYSIS

University Guidelines

The examination scheme of Delhi University 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.
$$SGPA (S_i) = \sum (C_i * G_i) / \sum C_i$$
 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.
$$CGPA = \sum (C_i * S_i) / \sum C_i$$
 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 Delhi University follows a 10-point grading system with the following letter grades as given below:

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	671	613	525
No. of Students Passed	665	608	522
Pass Percentage	99.11 %	99.18 %	99.43 %

Performance Analysis - Department-wise

Comparative Pass% of various Departments in 2018:

	Pass %		
Name of Department	I Year	II Year	III Year
Biomedical Science	97.87	100	100
Botany	100	100	100
Chemistry	100	97.67	100
Commerce	100	100	98.99
Computer Science	93.88	100	100
Electronics	97.83	100	100
Mathematics	100	97.96	100
Physics	100	97.67	96.77
Zoology	100	100	100
Physical Science	99.28	98.37	100
Life Science	100	100	97.83

SEMESTER WISE RESULT ANALYSIS

Department-wise Percentage of Students obtaining the desired SGPA (CBCS I Sem, 2017-18):

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	P.S.	LS
SGPA											
9-10	8.51	4.76	4.26	0.00	8.16	6.52	7.55	10.42	6.82	2.17	0.00
8-9	25.53	21.43	17.02	13.13	36.73	21.74	37.74	39.58	40.91	14.49	13.79

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	P.S.	LS
SGPA											
7-8	23.40	35.71	31.91	36.36	12.24	15.22	18.87	29.17	20.45	30.43	37.93
6-7	14.89	14.29	29.79	30.30	22.45	32.61	15.09	14.58	13.64	31.16	22.41

**Department-wise percentage of Students obtaining the desired SGPA
(CBCS II Sem, 2017-18):**

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	Phy. Sc.	LS
SGPA											
9-10	4.26	4.76	12.77	0.00	0.00	6.52	16.98	14.58	9.09	0.72	0.00
8-9	23.40	16.67	19.15	5.05	16.33	23.91	24.53	31.25	40.91	7.97	5.17
7-8	21.28	23.81	25.53	13.13	44.90	19.57	15.09	22.92	22.73	21.74	25.86
6-7	25.53	26.19	25.53	32.32	36.73	21.74	18.87	16.67	6.82	31.88	32.76

**Department-wise Percentage of Students obtaining the desired CGPA
(CBCS I Year, 2017-18):**

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	Phy.Sc.	LS
SGPA											
9-10	4.26	4.76	6.38	0.00	6.12	6.52	15.09	10.42	4.55	0.00	0.00
8-9	25.53	14.29	19.15	5.05	18.37	19.57	28.30	37.50	43.18	8.70	3.45
7-8	23.40	33.33	31.91	23.23	38.78	17.39	16.98	18.75	22.73	27.54	37.93
6-7	21.28	19.05	21.28	40.40	14.29	32.61	13.21	25.00	9.09	33.33	29.31

Department-wise Percentage of Students obtaining the desired SGPA (CBCS III Sem, 2017-18)

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	PMCS	LS
SGPA											
9-10	0.00	7.89	4.65	0.00	13.95	0.00	0.00	4.65	4.44	4.88	1.72
8-9	27.78	18.42	11.63	14.58	18.60	23.08	6.12	23.26	35.56	9.76	8.62
7-8	16.67	36.84	32.56	33.33	30.23	15.38	26.53	34.88	20.00	28.46	34.48
6-7	27.78	21.05	16.28	35.42	4.65	35.90	20.41	16.28	17.78	22.76	25.86

Department-wise percentage of Students obtaining the desired SGPA (CBCS IV Sem, 2017-18):

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	Phy. Sc.	LS
SGPA											
9-10	11.11	10.53	16.28	0.00	9.30	2.56	0.00	4.65	6.67	6.50	6.90
8-9	36.11	26.32	25.58	9.38	23.26	7.69	24.49	13.95	22.22	13.82	20.69
7-8	19.44	31.58	23.26	36.46	32.56	20.51	30.61	20.93	35.56	23.58	39.66
6-7	13.89	7.89	13.95	34.38	9.30	15.38	24.49	37.21	17.78	30.89	20.69

Department-wise Percentage of Students obtaining the desired CGPA (CBCS II Year, 2017-18):

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	Phy. Sc.	LS
SGPA											
9-10	0.00	7.89	4.65	0.00	9.30	0.00	0.00	2.33	6.67	5.69	1.72
8-9	30.56	23.68	18.60	11.46	32.56	12.82	8.16	20.93	26.67	8.13	15.52
7-8	27.78	36.84	32.56	32.29	23.26	20.51	34.69	25.58	26.67	28.46	39.66
6-7	22.22	15.79	13.95	40.63	9.30	20.51	24.49	32.56	20.00	29.27	24.14

Department-wise Percentage of Students obtaining the desired SGPA (CBCS V Sem, 2017-18):

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	Phy. Sc.	LS
SGPA											
9-10	0.00	12.50	11.11	2.02	7.32	0.00	2.86	9.68	5.00	5.21	0.00
8-9	29.41	17.50	11.11	14.14	24.39	7.41	11.43	6.45	30.00	15.63	4.35
7-8	29.41	32.50	41.67	37.37	14.63	25.93	31.43	19.35	30.00	29.17	36.96
6-7	29.41	15.00	13.89	32.32	17.07	29.63	14.29	3.23	17.50	27.08	28.26

Department-wise percentage of Students obtaining the desired SGPA (CBCS VI Sem, 2017-18):

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	Phy.Sc.	LS
SGPA											
9-10	0.00	15.00	8.33	0.00	2.44	0.00	0.00	0.00	2.50	3.13	0.00
8-9	20.59	27.50	22.22	13.13	21.95	7.41	22.86	6.45	25.00	10.42	13.04
7-8	29.41	27.50	30.56	39.39	17.07	22.22	37.14	9.68	22.50	27.08	36.96
6-7	32.35	20.00	19.44	33.33	19.51	14.81	14.29	12.90	30.00	35.42	26.09

Department-wise Percentage of Students obtaining the desired CGPA (CBCS III Year, 2017-18)

DEPT.	BMS	BOTANY	CHEMISTRY	COMMERCE	CS	ELECTRONICS	MATHS	PHYSICS	ZOOLOGY	Phy. Sc.	LS
SGPA											
9-10	0.00	10.00	5.56	0.00	7.32	0.00	0.00	0.00	2.50	3.13	0.00
8-9	20.59	25.00	13.89	10.10	17.07	7.41	14.29	12.90	22.50	11.46	4.35
7-8	29.41	32.50	44.44	37.37	26.83	18.52	34.29	12.90	30.00	31.25	43.48
6-7	35.29	15.00	13.89	36.36	12.20	25.93	20.00	19.35	25.00	30.21	23.91

5. ACHIEVEMENTS OF FACULTY

5.1. निष्ठा: ANDC SERVICE AWARD

College has instituted a service award निष्ठा: ANDC Service Award to felicitate the college employees for completing given years of service from 2017-18. 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 twenty five years of regular service at Acharya Narendra Dev College and Principal completing ten years at ANDC 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.

Ms. Namrata Arora (Officiating Librarian) is eligible for this award in 2018-19.

5.2. ACHIEVEMENTS OF DR. SAVITHRI SINGH (EX-PRINCIPAL, ACHARYA NARENDRA DEV COLLEGE, UNIVERSITY OF DELHI, NOVEMBER 2005 – NOVEMBER 2018) (SUPERANNUATION)

The Governing Body placed on record the appreciation for the Principal, Dr. Savithri Singh who superannuated on November 30, 2018 after serving the college for more than thirteen years. The Governing Body appreciated her vision, leadership, contribution in Open education, initiatives and new experiments in undergraduate education and pedagogy undertaken at ANDC helping the college scale new heights. The Governing Body recognized the roadmap set-up by her to achieve higher through the twin ideology of the college of going 'Beyond the Classroom' and 'Preparing for the Future'.

Her major achievements for the year 2018-19 (till November):

- On the occasion of the Women Economic Forum (WEF) 2018, Dr. Savithri Singh was conferred with the WEF 18 award "Exceptional Women of Excellence." This award is conferred on eminent women and leaders in all walks of life who through their pioneering example been a role model of excellence for others to follow. As a dedicated educationist, your leadership is impacting young minds who are the pillars of our future." WEF 18 was held in New Delhi (April 26 - May 1, 2018) with the over 2000 women and men from 150 countries on the theme: "The Economics of Goodness: Empowering Potential, Engineering Change".

- Affiliate, Creative Commons (India)
- Member Advisory Group for ROER4D (Research on Open Educational Resources for Development) project, funded by the International Development Research Centre (IDRC), Canada involving 11 OER Adoption studies and 8 OER impact studies, all located in the global South (Specifically guiding three research projects in Malaysia, Columbia and India) since 2011.
- Core group member on the Quality Advanced Multimedia Learning Materials of the Commonwealth of Learning, Vancouver, Canada.
- Advisor on the following International projects of the ROER4D, South Africa:
 - a. Collaborative co-creation of OER by teacher educators and teachers in India: A participatory action research study
 - b. Co-creation of OER by teachers and teacher educators in Colombia
 - c. OER integration for course development in India and Malaysia
 - d. Planning Committee for Planning Southern Research on Open Educational Resources (OERs) project under the International Development Research Center (IDRC), Wawasan Open University (WOU), Penang, Malaysia.
- Vice-Chairperson of the Wiki Educator International Community Council.
- Attended UNESCO Flagship ICT in Education Conference in France and Creative Commons Global Summit 2018 in Canada, March 27 – April 17, 2018.
- Co-Investigator of DST (Indo-Slovenia joint project): Exposure-Response Assessment of Ambient Air Pollution (AAP) and Hg contamination in Affected Cities of India and Slovenia: A Comparative Study; 2015-2018. (Funding – INR 16.11 Lakh).
- Member, National Resource Group (NRG) for Rashtriya Madhyamik Shiksha Abhiyan (RMSA), Ministry of Human Resource Development, Government of India (2011-till date).
- Member, Executive Council Committee, 2017 to November 2018.
- Member, State Project Directorate for RUSA, Delhi Government
- Chairperson, Committee for “Furniture and IT Procurement” for twelve 100% funded colleges, Delhi Government.
- Chairperson, Committee for “Procurement of CCTV Cameras” for twelve 100% funded colleges, Delhi Government.

5.3. CONTRIBUTION OF FACULTY TO SCHOOL/COLLEGE EDUCATION

5.3.1. Books/Chapters (in Books) Published

Faculty	Title	Publication	Year
Dr. Sarita Kumar (Zoology)	Fundamental of Environmental Studies.	Sultan Chand and Sons. ISBN:9789-3879-0-7072	2018
	Visualised Science Biology (For class X: conforming to the latest CBSE curriculum)	Sultan Chand & Sons, New Delhi, ISBN: 978 93 8790 781 2	2019
	Visualised Science Biology (For class IX: conforming to the latest CBSE curriculum)	Sultan Chand & Sons, New Delhi, ISBN: 978 93 8790 792	2019
Mr. Manoj Kumar Garg (English)	Business Communication	Kitab Mahal Publishers, New Delhi, ISBN: 978-93-87253-30-8	2018
	General English	Kitab Mahal Publishers, New Delhi, ISBN: 978-93-87253-29-2	2018
	Easy English Grammer	Kitab Mahal Publishers, New Delhi, ISBN: 978-93-87253-46-9	2019
	Essential Business Communication	Kitab Mahal Publishers, New Delhi, ISBN: 978-93-87253-49-0	2019
	English Language	Kitab Mahal Publishers, New Delhi, ISBN: 978-93-87253-50-6	2019
Dr. Geetika Kalra (Botany)	Five chapters in a book entitled Plant Physiology, Development and Metabolism by S.C. Bhatla and Manju A. Lal	Springer, Singapore	2018
Dr. Rashmi Sharma (Botany)	Book Chapter: Role of Acetylcholine System in Allelopathy of Plants in Akula Ramakrishna &	CRC Press, Florida.	2018

Faculty	Title	Publication	Year
	Victoria V Roshchina (Eds.) Neurotransmitters in Plants Perspectives and Applications (pp243-270) Rashmi Sharma and Rajendra Gupta.		

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

Faculty	e-Chapter
Dr. Urmi Bajpai (Biomedical Science)	Have developed a web portal for “International Bacteriophage Research Consortium (IBRC)” in collaboration with Open Health System Laboratory (OHSL), USA, which went live in October 2018.
Dr. Urmi Bajpai (Biomedical Science)	Documentary-Drama film made on “Bacteriophages as a credible option in treating drug-resistant infections” to create awareness on antimicrobial resistance (AMR) and Phage Therapy. May 2018 https://youtu.be/lhPPJJZ6SUg
Dr. Sweety Shrimali (Zoology)	Postgraduate level e-content for ‘e-PG <i>Pathshala</i> ’ an initiative by MHRD, under its National Mission on Education through ICT (NME-ICT): Module-11, Antigen Processing and Presentation to T-lymphocytes, Antigen Presenting Cells and Role of CD1 in Antigen Presentation (Paper No.- 10- Immunology, Subject- Zoology, URL- https://epgp.inflibnet.ac.in/ahl.php?csrno=35).

5.3.3. Enriching School/College Education

Contribution	Faculty Involved (Department)	Duration
Review of textbook of Information & Communication Technology (ICT) for class IX in Central Institute of Educational Technology (CIET) at NCERT	Dr. Harita Ahuja (Computer Science)	June 4-8, 2018

Contribution	Faculty Involved (Department)	Duration
Development of textbook of Computer Science (CS) and Informatics Practices (IP) for Higher Secondary Stage (class XI and XII) by Department of Education in Science & Mathematics (DESM) at NCERT	Dr. Harita Ahuja (Computer Science)	June 12-14, 2018 July 12-14 & 16, 2018 October 24, 2018 January 17-18, 2019 February 1-2, 2019
Development of Syllabus & textbook of Information & Communication Technology (ICT) for class X in Central Institute of Educational Technology (CIET) at NCERT		January 23-24, 2019
Content creation and Review: Global Edition of Campbell Biology, Concepts and Connections, 9th Edition.	Dr. Sarita Kumar (Zoology)	2018
Developed ' Shabdawali ' on Environment terms for 'Vishwakosh' – a project of MHRD, Govt. of Delhi		2018
Subject expert in the program 'Development of Training Modules in Biology, for Teachers at Higher Secondary Stage, in Online Format' conducted by NCERT		July 30-31, 2018 January 7-11, 2019 January 14-18, 2019 February 25 - March 1, 2019
Subject expert in the program 'Development of Question Bank for Online Course in Teaching of Science for Upper Primary Teachers' conducted by NCERT		January 24-25, 2019 January 28-30, 2019 February 11-15, 2019
Subject expert in the program 'Mapping of QR Codes in Class VI/X Science Text book with e-resources' conducted by NCERT		March 6-7, 2019 March 11-13, 2019

Contribution	Faculty Involved (Department)	Duration
Resource person in the workshop titled “Development of Modules of Training Package in Chemistry for Teachers Teaching at Higher Secondary Stage in Online Format”, organized by Department of Education in Science and mathematics, NIE, NCERT, New Delhi	Dr. Pooja Bhagat (Chemistry)	August 27- 31, 2018
A resource person for workshop on ‘Development of guidelines for mentoring of schools by Higher Educational Institutions (HEIs) under Rashtriya Avishkar Abhiyan (RAA)’, organised by DESM, NCERT, New Delhi	Dr. Pankaj Khanna (Chemistry)	December 17-21, 2018
Resource Person in a five-day workshop on “Development of Tactile Kit in Science at Upper Primary stage”, organized by Department of Education in Science and Mathematics, NIE Campus, NCERT New Delhi	Dr. Ravneet Kaur Ms. Gauri Ghai (Electronics)	September 10-14, 2018 February 11-15, 2019
Resource Person in a five-day workshop on “A Study of Utilization of Science Laboratories in Learning Science in Higher Secondary Schools of NCR” organized by Department of Education in Science and Mathematics, NIE Campus, NCERT New Delhi	Dr. Ravneet Kaur (Electronics)	July 30-August 03, 2018
Resource Person in a five-day workshop on “Development of Audio-Video Resource on Experiments of Chemistry at Higher Secondary Stage (Class XI)” organized by Department of Education in Science and Mathematics, NIE Campus, NCERT New Delhi		February 27-March 1, 2019

5.4. CONFERENCES, WORKSHOPS, TRAINING PROGRAMMES ORGANIZED

Faculty (Department)	Details
Dr. Amit Garg (Electronics)	Convener of two days SPIE Induction Workshop-2018 on September 25-26, 2018 at Acharya Narendra Dev College
Dr. Sarita Kumar (Zoology)	Organizing Secretariat of the National Symposium “Green Technology for Environmental Sustainability” held on September 25, 2018 at Deshbandhu College, Kalkaji One day “CUBE meet” ANDC, November 4, 2018 at Acharya Narendra Dev College
Dr. Ravi Toteja, Dr. Seema Makhija (Zoology)	Joint Secretaries in organizing committee of “The International Symposium on Ciliate Biology 2018” (ISCB 2018), along with Maitreyi College and SGTB Khalsa College, University of Delhi, on April 04-06, 2018 at India Habitat Centre in partnership with International Research Coordination Network for Biodiversity of Ciliates (IRCN-BC), an affiliate society of International Society of Protistologists (ISOP)
Dr. Gagan Dhawan (Biomedical Science)	Coordinator, National Symposium on Contemporary Environmental Concerns-2018 on March 15-17, 2018 at Acharya Narendra Dev College Convener and Resource Person in the workshop on “Learning R programming Skills and Applications to Proteomics” held on March 15-16, 2019 organized by ANDC, University of Delhi in association with CSIR-IGIB, New Delhi
Dr. Harita Ahuja, Dr. Sunita Narang (Computer Science)	Organized Workshop on Awareness on Digital India Initiative on September 18, 2018 at Acharya Narendra Dev College Organized Workshop on Awareness on FOSS & LINUX on August 28- September 4, 2018 at Acharya Narendra Dev College
Dr. Charu Khosla Gupta (Botany) Dr. Seema Gupta Dr. Pooja Bhagat (Chemistry) Dr. Arijit Chowdhuri (Physics)	Organizing Secretary, in the National Symposium on Contemporary Environmental Concerns 2018, March 15-17, 2018

Faculty (Department)	Details
Dr. Seema Gupta (Chemistry)	<p>Organized Workshop on Legal Awareness Program on E-Waste Management, August 10, 2018 at Acharya Narendra Dev College</p> <p>Organized Workshop on Teachers as Mentors, October 25, 2018 at Acharya Narendra Dev College</p> <p>Organized Butterfly Campus Count, September 17, 2018 at Acharya Narendra Dev College</p> <p>Organized seminar entitled ‘Challenges in Safe Disposal of Chemical Waste in Academia & Research Laboratories’ on February 23rd, 2019 at Seminar Hall, Department of Chemistry, University of Delhi.</p> <p>Resource person in the workshop titled “A study of Syllabi of Chemistry at Higher Secondary Stage” organized by Department of Education in Science and Mathematics (NCERT) March 18-20, 2019.</p>

5.5. AWARDS /HONOURS

Awardees' Name (Department)	Name of the Award/ Honour	Awarded/ Honoured by	Awarded on Date
Dr. Urmi Bajpai (Biomedical Science)	Indian National Science Academy (INSA) teacher award 2018	Indian National Science Academy (INSA)	December 28, 2018
Dr. Charu Khosla Gupta (Botany)	Selected for INSA Bilateral Exchange Programme-2019 to Slovenia for two weeks	INSA Bilateral Exchange Programme-2019	2019
Mr Satyapal Singh (Sports)	Cash Award of INR 6 Lakh from Delhi Government	Government of National Capital Territory of Delhi	December 21, 2018
Dr. Seema Gupta	Best college lecturer award by DHE (Directorate of Higher Education) (an award of INR 1,00,000/)	Government of National Capital Territory of Delhi	2017-18

Awardees' Name (Department)	Name of the Award/ Honour	Awarded/ Honoured by	Awarded on Date
Dr. Seema Makhija	Best college lecturer award by DHE (Directorate of Higher Education) (an award of INR 1,00,000/-)	Government of National Capital Territory of Delhi	March 13, 2019

5.6. INVITED TALKS

Faculty (Department)	Details
Dr. Urmi Bajpai (Biomedical Science)	<p>Invited talk “Phage Therapy for drug-resistant infections” on the occasion of World Immunology Day at University College of Medical Sciences (UCMS), University of Delhi and GTB hospital, on May 2, 2018</p> <p>Invited talk “Bacteriophages as credible alternative to antibiotics: the prospects and challenges” at Institute of Microbial Technology (IMTECH), Chandigarh on December 5, 2018</p> <p>Guest Speaker for the 20th Annual fest of Department of Biosciences and Bioengineering, IIT Bombay on January 12-13, 2019</p> <p>Special Talk in the Department of Biochemistry, South Campus, Delhi University on Title: Antimicrobial Resistance & the Prospects and Challenges of Bacteriophage Therapy on January 16, 2019.</p> <p>Invited delegate in the Women Scientists and Entrepreneurs Conclave (WSE) on October 7-8, 2018 as part of India International Science Festival (IISF) 2018 held in Lucknow.</p> <p>Invited talk by Medizone Aesthetics company on “Phages in medicine: Future is here” to a group of eminent doctors on March 3, 2019 at the Hyatt Regency Mumbai.</p> <p>Invited Talk “Finding Anti-mycobacterial Solutions In Repurposed Drugs, Bacteriophages And Endolysins” At The Department Biotechnology, Research Group Laboratory Of Applied Biotechnology, Faculty Of Bioscience Engineering, Ghent University, Belgium 25 March, 2019</p>

Faculty (Department)	Details
Dr. Sharanjit Kaur (Computer Science)	<p>Invited speaker on 'Python Programming' in In-service course for PGTs (CS) of Kendriya Vidyalaya at KVS-no. 2, Delhi Cantt on December 24, 2018.</p> <p>Delivered lectures in FDP on “Network Science: Foundation of Social Network Analysis” on December 4-6, 2018 organized by Teaching Learning Centre of Ramanujan College & Department of Computer Science, (University of Delhi) (December 3-8, 2018).</p> <p>Taught 3-days course on "Network Science: Foundation of Social Network Analysis" during period December 13-15, 2018 at Epitech University, PARIS .</p> <p>Speaker in Workshop on "R Programming" conducted by Department of Computer Science, (University of Delhi) on February 12, 2018</p>
Dr. Seema Makhija (Zoology)	Resource person for conducting pre-entrance classes for PG admissions 2018, for students belonging to weaker sections of the society and economically backward minority communities from June 1 to June 15, 2018, in Department of Zoology.
Dr. Gagan Dhawan (Biomedical Science)	Invited to deliver a lecture on February 26, 2019 at Amity Institute of Biotechnology, Amity University, Gurgaon

5.7. SEMINARS, SYMPOSIA, WORKSHOPS, TRAINING PROGRAMS PARTICIPATED/ ATTENDED

Faculty (Department)	Details
Dr. Urmi Bajpai (Biomedical Science)	<p>Attended “India Alliance” three day event: Decade of discovery: Enabling Biomedical Research In India, November 12-14, 2018 at Vigyan Bhawan and India Habitat Centre, New Delhi</p> <p>Attended Symposia at the 84th Anniversary General Meeting of the Indian National Science Academy (INSA) to be held during December 26-28, 2018 at Physical Research Laboratory (PRL), Ahmedabad.</p>

Faculty (Department)	Details
Dr. Gagan Dhawan (Biomedical Science)	MHRD-GIAN Course on RNA Metabolism and Neurodegenerative Diseases held from April 2-7, 2018 at University of Delhi. 6th World Congress on Nanomedical Sciences, January 7-9, 2019, Vigyan Bhawan New Delhi.
Dr. Geetika Kalra (Botany)	Attended STEM Teacher Training Workshop on Research-Based Pedagogical Tools (Level1) held from September 28-October 1, 2018 at Jaipur, Rajasthan
Dr. Amit Garg (Electronics)	Attended 36th Edition of Bridge 2018 conference at New Delhi , FOSTERING INDIA FOR INDUSTRY 4.0, ICT Academy on December 12, 2018 Attended workshop on Expenditure, Advance and Transfer (EAT) module of Public Financial Management System (PFMS), Institute of Government Accounts and Finance (INGAF), Old JNU Campus, New Delhi on December 11, 2018 TiE Global Summit III, Entrepreneurship: Driving Employment, Driving Growth, New Delhi on November 29, 2018. Attended ICT academy Coordinator Meet -2017, The Park Hotel on January 11, 2018
Dr. Sandeep Kumar Goel (Commerce)	Seminar on The Power & Purpose of Accreditation Council for Business Schools and Programs (ACBSP), USA Global Accreditation, Indian Commerce Association, Delhi-NCR Chapter, in collaboration with Sri Guru Gobind Singh College of Commerce, University of Delhi and Delhi School of Professional Studies & Research, GGSIP University, Delhi, India, August 28, 2018. Training for Health & Wellness Coordinator, Association of Food Scientists & Technologists (India) in collaboration with Hindustan Unilever Limited, Lakshmibai College, University of Delhi, September 22, 2018. Attended 4th Biennial Convention, Vimarsh 2019 on Transforming India's Business Landscape, Role of Disruptive Innovations and Entrepreneurship at Sri Guru Gobind Singh College of Commerce, in association with Department of Commerce, Delhi School of Economics and PHD Chamber

Faculty (Department)	Details
	of Commerce and Industry, Patel Chest Golden Jubilee Auditorium, University of Delhi, Delhi, February 26, 2019
Dr. Pooja Bhagat (Chemistry)	Attended a seminar on “ Challenges in Safe Disposal of Chemical Waste in Academia & Research Laboratories” conducted by Department of Chemistry, University of Delhi, Delhi on February 23, 2019
Dr. Seema Gupta (Chemistry)	Attended Conference entitled ICT Academy Bridge 2018 - New Delhi Edition on December 12, 2018 at Shangri-La’s Eros Hotel New Delhi
Dr. Neeti Misra (Chemistry)	<p>Attended a workshop on “Teachers as Mentors”, organised by IQAC, Acharya Narendra Dev College, on October 25, 2018</p> <p>Attended a meeting to discuss DSE syllabus of B.Sc. (Honours) Chemistry, organised by Department of Chemistry, University of Delhi on September 13, 2018</p> <p>Participated in a one day workshop for Review and Curation of content for NROER and DISKSHA portal, organized by CIET, NCERT, on June 20, 2018</p>
Dr. Manisha Jain (Chemistry)	Participated in a Workshop on “Sexual Harassment of Women at Workplace” (Prevention, Prohibition and Redressal) Act, 2013, organized by Internal Complaints Committee, Jawaharlal Nehru University , Delhi on May 1– 2, 2018
Dr. Dinesh Kumar Arya (Chemistry)	Attended International Conference on Recent Advances at Interfaces of Physical and Life Science, RAIPLS-2019 by Department of Chemistry, University of Rajasthan, Jaipur on January 28-30, 2019
Dr. Pankaj Khanna (Chemistry)	<p>One Day Workshop on Intellectual Property Rights (IPR) organized by and held at Deen Dayal Upadhyaya College on August 28, 2018.</p> <p>Research Based Pedagogy Tools workshop (RBPT-Level 2) for undergraduate science teachers organised by and held at IISER Pune, January 17-19, 2019</p>

Faculty (Department)	Details
Dr. Sarita Kumar (Zoology)	<p>Delhi meeting to launch Creative Commons India, Acharya Narendra Dev College, September 1, 2018.</p> <p>National Symposium ‘Green Technology for Environmental Sustainability’, Deshbandhu College, Kalkaji, September 25, 2018.</p> <p>Attended CUBE Clear Workshop, conducted by Homi Bhabha Centre for Science Education, TIFR, Mumbai, Feb 22-24, 2019</p>
Dr. Rashmi Sharma (Botany)	<p>Attended a 3-day long level-I workshop as Trainer on RBPT based regional teachers training program organised by IISER Pune and Sri Shivaji Science College, Shivaji Nagar, Amravati, Maharashtra; June 26-28, 2018.</p> <p>Attended a 4-day long level-I workshop as invited observer and volunteer on RBPT based teachers training program organised by IISER Pune at Kolkatta, West Bengal; September 23-26, 2018.</p> <p>Attended a 4-day level-III workshop on RBPT based teachers training program organised by IISER Pune at Pune, Maharashtra; January 20-23, 2019.</p>
Dr. Ravi Toteja, Dr. Seema Makhija, Dr. Aparna Sharma, Dr. Sweety Shrimali, Dr. Rahul Dev, Mr Sanjay Kumar (Zoology)	<p>Participated in ‘International Symposium on Ciliate Biology 2018’, held at India Habitat Centre, Delhi in April 2018, organized by Acharya Narendra Dev College.</p>
Dr. Sweety Shrimali (Zoology)	<p>Participated in “CUBE (Collaboratively Understanding Biology Education) Summer Workshop” held in April 2018 at the CUBE lab of Homi Bhabha Centre for Science Education, TIFR, Mumbai</p>
Ms. Sneha Sagar (Zoology)	<p>Participated in 4th National Symposium on Environment: Green Technology for Environmental Sustainability held at Deshbandhu College, University of Delhi, September 25, 2018</p> <p>Participated in National conference on ‘Urban environmental Sustainability’ organised by Kalindi college, University of Delhi and MGICC, February 7-8, 2019</p>

5.8. FACULTY AS EDITORS/ REVIEWERS/ ADVISORY

Faculty (Department)	Name of Journal/Committee
Dr. Ravi Toteja	Reviewer of Cellular and Molecular Life Sciences
Dr. Amit Garg (Electronics)	Reviewer of Journal of Material Science, Springer Reviewer of Optics and Lasers in Engineering, Elsevier Inc., USA
Dr. Urmi Bajpai (Biomedical Science)	Reviewer of : Biochemical Society Transactions
Dr. Gagan Dhawan (Biomedical Science)	Reviewer of Nature Scientific Reports Reviewer of Frontech Biosciences (Greece) Research Advisory Committee of a Ph.D student (Ms. Sneha Rai) registered at Division of Biotechnology, NSIT, Delhi Research Advisory Committee of a Ph.D student (Ms. Mitali) registered at ACBR, University of Delhi
Dr. Sunita Jetly (Biomedical Science)	Reviewer with CEC for various UGC directed Video Lectures
Dr. Satendra Singh (Biomedical Science)	Reviewer in the South African Journal of Botany
Dr. Namita Singh (Biomedical Science)	Editorial Reviewer in the Journal of Herbal Medicine
Dr. Manisha Jain (Chemistry)	Reviewer of Training Modules developed by NCERT for Chemistry Teachers teaching at Senior secondary level in a workshop organized by DESM, NCERT, Delhi from August 27-31, 2018
Dr. Sarita Kumar (Zoology)	Academic Editor of 'Journal of Advances in Medicine and Medical Research' (previously called British Journal of Medicine and Medical Research) (India, USA and UK) Associate Editor of 'International Journal of Nutrition and Health Sciences' Member of Editorial Board of: Vector Biology Journal (USA) Member of Editorial Board of: The Open Access Journal of Science and Technology (UK) Member of Editorial Board of: Journal of Applied and Natural Sciences (Haridwar)

Faculty (Department)	Name of Journal/Committee
Dr. Sarita Kumar (Zoology)	<p>Member of Editorial Board of:Asian Pacific Journal of Tropical Biomedicine (China)</p> <p>Reviewer in the International Journals – BMC Research Notes (England)</p> <p>Reviewer in the BMC Complementary and Alternative Medicine (England)</p> <p>Reviewer in the African Journal of Biotechnology (Nigeria)</p> <p>Reviewer in the Journal of Medicinal Plant Research (Nigeria)</p> <p>Reviewer in the Journal of Mosquito Research (Canada)</p> <p>Reviewer in the Asian Pacific Journal of Tropical Biomedicine (China)</p> <p>Reviewer in the International Journal of Pharmacy and Pharmaceutical Sciences (Madhya Pradesh)</p> <p>Reviewer in the Indian Journal of Medical Research (New Delhi)</p>

5.9. OTHER ACHIEVEMENTS

Faculty (Department)	Achievement
Dr. Ravi Toteja (Acting Principal)	<p>Member secretary of IBSC (Institutional Biosafety Committee) (Since 2018)</p> <p>Life Member, Indian Society of Parasitology (Since 1999)</p> <p>Life Member, Association of Teachers in Biological Sciences (Since 2008)</p> <p>Life Member of INSCR (Since 2017)</p>
Dr. Urmi Bajpai (Biomedical Science)	<p>EMBL Travel Grant, awarded by European Molecular Biology Laboratory (EMBL), for Oral presentation on July 13, 2018 during EMBO workshop on “Viruses of Microbes” July 9-13, 2018, at the University of Wroclaw, Poland.</p> <p>Awarded travel grant by Open Source Pharma Foundation (OSPF) to participate and present the “Anti-mycobacterial drug discovery” research at 3rd Global Open Source Pharma Conference Science, License, Community, organized by Centre for Research and Interdisciplinarity (CRI: affiliate of the Paris Descartes University) in Paris. March 21-23, 2019</p>

Faculty (Department)	Achievement
	<p>Deputy Dean, Research (on additional basis) at the Research Council, University of Delhi. July 2017-2018</p> <p>Member, Board of studies (BoS), Central University of Haryana, for curriculum design, revision/restructure</p> <p>Coordinated constitution of “Institutional Biosafety Committee (IBSC), in the college with approval from Department of Biotechnology, Gol. First meeting held on September 7, 2018</p>
Dr. Gagan Dhawan (Biomedical Science)	<p>Member (Co-convener) of the various subject-wise committees constituted by ACBR, University of Delhi for restructuring of choice-based credit system syllabus (2018-19) for B.Sc.(H) Biomedical Science course at University of Delhi.</p> <p>Appointed as judge for Scientific Writing Competition organized by School of Computational and Integrative Sciences, JNU, New Delhi concurrently with InCoB2018 under the aegis of ISCB SC-RSG-India (September 26-28, 2019).</p> <p>Best Poster Award at Annual Conference-6th World Congress on Nanomedical Sciences (ISNSKON 2018) at Vigyan Bhawan, New Delhi, January 7-9, 2019. Poster title: ‘Synthesis of Silver Nanoparticles Using Terminalia Bellerica: Physicochemical Characterization And Their Anti-biofilm Evaluation’.</p>
Dr. Sunita Jetly (Biomedical Science)	<p>Member (Co-convener) of the various subject-wise committees constituted by ACBR, University of Delhi for restructuring of choice-based credit system syllabus (2018-19) for B.Sc.(H) Biomedical Science course at University of Delhi.</p> <p>Member of “Institutional Biosafety Committee (IBSC), in the college with approval from Department of Biotechnology, Gol. First meeting held on 7 September, 2018</p>
Dr. Rajesh Chaudhary (Biomedical Science)	<p>Participated as Member of Delhi Butterfly Count Team organized by BNHS in September 2018.</p> <p>Statements were quoted on various news papers:</p> <ol style="list-style-type: none"> 1. Butterflies species up from 69 to 75: Experts, Hindustan Times, 1st October 2018.

Faculty (Department)	Achievement
	<p>2. नवभारत टाइम्स Updated:Oct 9, 2018.</p> <p>3. Hindustan Times August 27th 2018.</p>
Dr. Rajesh Chaudhary (Biomedical Science)	Published “Butterflies: The Fluttering Gems” a photographic compilation of butterflies seen in ANDC Campus. It is based on the observational study conducted at ANDC Campus by Dr. Rajesh Chaudhary and Mr Vinesh Kumar of Biomedical Science in which more than 40 species of butterflies were observed over the year. Also, maintaining ‘The Biodiversity Patch’ in the backyard of the College (Near Botany department) to provide food and host plants for Butterflies and other insects
Dr. Sandeep Kumar Goel (Commerce)	<p>Founder Director, ANDC inStart Foundation, Section 8 Company</p> <p>Executive Committee Member, Indian Accounting Association, Delhi Chapter</p> <p>Executive Committee Member, Indian Commerce Association, Delhi Chapter</p> <p>Member, Faculty of Commerce & Business Studies, Department of Commerce, Delhi School of Economics, University of Delhi</p> <p>Expert Committee Member, IGNOU, Fundamentals of Financial Management, B.Com. Programme CBCS</p>
Dr. Amit Garg (Electronics)	<p>Chief Guest at Bal Bharati Public School(BBPS), Rohini for inauguration of Atal Tinkering Lab(ATL) , December 21, 2018</p> <p>Special Guest at Apeejay School, Pitampura for inauguration of Atal Tinkering Lab(ATL) , October 23, 2018</p> <p>On Selection panel for admission to Post Graduate Diploma in Cyber Security and Law (PGDCSL), 2018-19 at Shaheed Sukhdev College of Business Studies, Rohini</p> <p>Nodal Officer for State for Online CLF portal under RUSA, Directorate of Higher Education, GNCTD</p> <p>Coordinator, Rashtriya Uchta Shiksha Abhiyan (RUSA), Acharya Narendra Dev College</p>

Faculty (Department)	Achievement
	<p>Member, Inspection Committee for affiliation of Engineering Colleges under GGSIPU, Delhi</p> <p>Member, Society of Photo-Optical Instrumentation Engineers (SPIE), USA</p> <p>Member, Optical Society of India</p> <p>Member, Department Research Committee, Department of Electronic Science, University of Delhi South Campus for two years w.e.f 03.01.2019</p> <p>Member, Committee of Courses, Department of Electronic Science, University of Delhi, South Campus for a period of two years w.e.f 23.02.2019</p>
Dr. Manisha Jain (Chemistry)	Subject Expert to conduct Interviews for selection of chemistry PGTs in Air Force Bal Bharti School, Lodhi Road on February 22, 2019
Dr. Arijit Chowdhuri (Physics)	<p>Life member of Indian Association of Physics Teachers (IAPT, India).</p> <p>Life member of PSSI (Plasma Science Society of India).</p>
Dr. Subhash Kumar (Physics)	Life member of PSSI (Plasma Science Society of India).
Dr. Rachna Joshi (Physics)	Life Member, Indian Association of Physics Teachers (IAPT).
Mr Pawan Kumar (Physics)	Life member of PSSI (Plasma Science Society of India).
Dr. Sarita Kumar (Zoology)	<p>Judge in the oral session and Chaired an oral session during National Symposium Green Technology for Environmental Sustainability at Deshbandhu College, Kalkaji. September 25, 2018.</p> <p>Member, Committee of Courses, Department of Zoology, University of Delhi.</p> <p>Life member of Indian Science Congress, Delhi Chapter</p>

Faculty (Department)	Achievement
	<p>Life member of Association of Teachers in Biological Sciences (ATBS)</p> <p>Life member of National Academy of Vector Borne Diseases, Bhubaneswar</p> <p>Life member of Indian Society of Parasitology, Lucknow</p> <p>Member of Scientific Advisory Board, Virginia, USA</p>
Dr. Monisha Khanna Kapur (Zoology)	<p>Life Member, AMI (Association of Microbiologists of India)</p> <p>Life Member, Journal of Microbial World</p> <p>Life Member of INSCR</p> <p>Life Member, Association of Teachers in Biological Sciences.</p>
Dr. Seema Makhija (Zoology)	<p>Life Member of INSCR.</p> <p>Life Member, Association of Teachers in Biological Sciences</p> <p>Life Member of International society of Protistologists</p> <p>Co-convenor Orientation Day (annual Events)</p> <p>Member of M. Phil. Committee of the Department of Zoology, University of Delhi.</p> <p>Member of IBSC (Institutional Biosafety Committee)</p>

5.10. PH.D THESIS SUBMITTED BY/AWARDED TO THE FACULTY

Faculty (Department)	Thesis Title and Year
Sunita Jetly (Biomedical Science)	<p>Awarded Ph.D on November 12, 2018 from University of Delhi</p> <p>Thesis title: Development of Beacon based Diagnostic Assay for Detection of BCR-ABL1 Translocation and Study of Mitochondrial DNA variations and ROS levels in Chronic Myeloid Leukemia Patients</p>
Mr Manoj Kumar Garg (English)	<p>Ph.D Thesis submitted to the University of Delhi on May 17, 2018. Thesis title: A study of social and cultural discrimination in the testimonies of select Indian women writers.</p>

5.11. FACULTY JOINED/REGISTERED FOR PH.D PROGRAMME

Name/Department	University	Registration Details
Mr Vishal Dhingra (Electronics)	Department of Electronic Science, University of Delhi	Since December, 2014
Mr Gaurav Shrama	Department of Mathematics, University of Rajasthan, Jaipur	Joined in August, 2018

5.12. FACULTY DEVELOPMENT PROGRAMME (FDP), REFRESHER COURSE (RC) ATTENDED BY FACULTY

Name of the Course	Faculty	Organised by	Duration
RC in Life Science	Dr. Rajesh Chaudhary (Biomedical Science)	CPDHE, University of Delhi, Delhi	July 17-August 6, 2018
FDP on Java fundamentals and Programming	Dr. Harita Ahuja (Computer Science)	Oracle Academy	July 30-August 3, 2018
FDP on Shifted Goalposts in New NAAC: A Challenge for Today's IQAC	Dr. Seema Gupta (Chemistry)	Sri Guru Nanak Dev Khalsa College, University of Delhi	September 10, 2018
6th RC in Basic Sciences (Interdisciplinary)	Dr. Pankaj Khanna (Chemistry) Dr. Ravneet Kaur (Electronics) Dr. Udaibir Singh (Electronics)	UGC-HRDC, Jamia Millia Islamia	September 26-October 17, 2018.
RC in Climate Change and Environmental Studies (Interdisciplinary)	Dr. Dinesh Kumar Arya (Chemistry)	UGC, HRDC, University of Rajasthan, Jaipur	October 8-27, 2018
FDP on Sustainable Development	Dr. Sarita Agarwal (Mathematics)	Atma ram sanatan Dharam college, University of Delhi	October 15-22, 2018

Name of the Course	Faculty	Organised by	Duration
FDP on Teachers as Mentors, Internal Quality Assurance Cell	Dr. Sandeep Kumar Goel (Commerce) Dr. Ravneet Kaur (Electronics) Dr. Harita Ahuja (Computer Science)	Acharya Narendra Dev College, University of Delhi, New Delhi in collaboration with Zyego	October 25, 2018
FDP on e-Learning, Pedagogy, and ICT tools in Higher Education	Dr. Dinesh Kumar Arya (Chemistry)	Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi	November 26-December 7, 2018
Orientation Programme (OR-95)	Dr. Sarita Agarwal (Mathematics)	CPDHE(UGC-HRDC), University of Delhi	November 27-December 24, 2018
FDP on Network Science : Foundation of Social Network Analysis	Dr. Harita Ahuja (Computer Science)	Teaching Learning Center, Ramanujan College, DU	December 3-8, 2018
FDP on University Functioning and Blended Learning	Dr. Geetu Gambhir (Chemistry) Dr. Rashmi Sharma (Botany)	Guru Angad Dev Teaching Learning Centre of MHRD, Govt. of India under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) SGTB Khalsa College, University of Delhi	December 08-20, 2018

Name of the Course	Faculty	Organised by	Duration
FDP on Advancements in integrated Sciences: Learning & Adaptation for Effective Teaching and Research	Dr. Pankaj Khanna (Chemistry)	Shyam Lal College, in association with IGIB and UGC-HRDC, Jamia Millia Islamia	December 10-16, 2018
FDP on “Bhasha, Sahitya, Media aur Paryavaran”	Dr. Shalu Mahajan (Commerce)	Mahatma Hansraj Faculty Development Centre (MHRFDC)	December 10 – 23, 2018
FDP on Data Analysis using Software Packages organized by from	Dr. Udaibir Singh (Electronics)	Hindu College, DU in collaboration with Teaching Learning Centre, Ramanujan College, University of Delhi	December 12-24, 2018

5.13. FACULTY ON LEAVE

Name	Type of leave
Dr. Urmi Bajpai (Biomedical Science)	Sabbatical Leave from July 25, 2018 to June 24, 2019.
Mr Gaurav Sharma (Mathematics)	Sabbatical Leave from August 23, 2018 to August 22, 2019
Dr. Seema Gupta (Chemistry)	Sabbatical Leave from February 4, 2019 to December 31, 2019
Dr. Monisha Khanna (Zoology)	Maternity Leave from September 10, 2018 to March 8, 2019 Child Care Leave from March 9, 2019 to May 22, 2019
Dr. Sona P Kumar (Electronics)	Extraordinary Leave for a period of one year w.e.f. April 9, 2016 (extended upto April 8, 2019).
Mr. Vishal Dhingra (Electronics)	Relieved for Study Leave w.e.f. July 20, 2017 (period of two years) for pursuing Ph.D. programme.

Name	Type of leave
Dr. Shalu Sachdeva (Chemistry)	Child Care Leave from January 2, 2019 to March 15, 2019
Dr. Rashmi Thukral (Chemistry)	Child Care Leave from January 2, 2019 to January 31, 2019
Dr. Sunita Jetly (Biomedical Science)	Child Care Leave from February 4, 2019 to March 1, 2019
Dr. Sunita Hooda (Chemistry)	Child Care Leave from July 25, 2018 to November 21, 2018 and January 2, 2019 to April 25, 2019
Dr. Surinder Kaur (Commerce)	Child Care Leave from January 2, 2019 to April 30, 2019
Dr. Anita Narang (Botany)	Child Care Leave from July 25, 2018 to December 14, 2018 and January 2, 2019 to May 20, 2019
Ms. Rupali Pabreja (Commerce)	Child Care Leave from July 25, 2018 to December 14, 2018 and January 2, 2019 to May 25, 2019
Dr. Vibha Gaur (Computer Science)	Child Care Leave from July 25, 2018 to November 29, 2018 and January 2, 2019 to April 30, 2019
Dr. Preeti Marwaha (Computer Science)	Child Care Leave from February 5, 2019 to March 28, 2019

5.14. RESEARCH PUBLICATIONS BY FACULTY IN PEER REVIEWED JOURNALS, NATIONAL AND INTERNATIONAL CONFERENCES AND SEMINARS

ANNEXURE-I

5.15. TRAINING/WORKSHOPS ATTENDED/OTHER ACHIEVEMENTS BY NON-TEACHING STAFF

Name	Programme/Achievement	Dates
Ms. Namrata Arora (Officiating Librarian)	Participated in a workshop on Digitization and Conservation at Janki Devi Memorial College, University of Delhi	June 15, 2018
Mr Satinder (Library)	Attended a Computer training programme organized by Delhi University Library System at Central Library, University of Delhi	January 3-17, 2019

5.16. SCALE UPGRADATION OF NON-TEACHING STAFF

1. Ms. Namrata Arora has been granted Librarian scale with effect from 13.11.2018.
2. The following non-teaching staff was given scale upgradation (MACP2) during 2018-19:

Mr. Vikas Singh

Mr. Rajpal Singh

Mr. Ajay Kumar Gupta

Mr. Vikas Sharma

Mr. Devender Singh

Mr. Rajveer Singh

Physics

Chemistry

Biomedical Science

Zoology

Chemistry

Botany

6. COLLEGE ACTIVITIES

6.1. INTERNAL QUALITY ASSURANCE CELL (IQAC)

Co-ordinator: Dr. Seema Gupta (Department of Chemistry)

- Three day National Symposium on ‘Contemporary Environmental Concerns 2018’ was organized from March 15-17, 2018 at the College premises. The list of guest speakers included Dr. R Gopichandran (Director, Vigyan Parisar), Dr. B C Sabata (Department of Environment, Govt. of NCT of Delhi), Dr. Govind Singh (Associate Professor, IP College, University of Delhi), Vijay Dasmana, (Ecologist and Conservationist), Dr. Anjali Sharma (ARSD College, University of Delhi), Mr Aananda Banerjee (Senior journalist, ‘Livemint’ magazine), Mr Augustine Veliath (Founder director of Asian center for Environment Education) Ms Lydia Powell (Senior fellow of Observer Research foundation) and Dr. Praveen Saxena, (Ex advisor to Ministry of MSME).
- The IQAC has initiated the process to collect the information on student progression in a consistent manner. The security refund form, which the students fill while leaving college have been modified and the students fill in the information about the academic institutes/ jobs/ business planned to join.
- A workshop entitled ‘Teachers as Mentors’ to discuss about ‘What is mentoring’, Qualities of a good mentor and ‘Mentor sensitization’ was held on October 25, 2018. Mr. Arindam Sen, ALS Wellness Network Pvt Ltd. (Zyego Co.) and Ms. Tanni, College Counselor were the resource persons, who discussed issues which hinder persons professional and personal development and emotional well being was held during the workshop.
- As per the recommendations of IQAC, the College started the job oriented course ‘quality control (QC) chemist’ of NAQF level 5. This program is aimed at training candidates for the job of a “Quality Control Chemist”, in the “Life Sciences” Sector/ Industry. Eleven students from B.Sc.(H) Chemistry, B.Sc.(H) Biomedical Sciences and B.Sc. Life Sciences completed their course work and did one month internship at various pharmaceutical companies viz., Belco Pharma, Unichem Laboratories, Federation of Pharma Entrepreneurs, Jubilant Chemsys Limited. All have been successfully awarded the certificate from NSDC.

6.2. ACTIVITIES OF STAFF COUNCIL COMMITTEES

6.2.1. Annual Academic Events Committee

6.2.1.1. Annual Day Celebrations 2018

Convenor: Dr. Charu Gupta (Department of Botany)

- The annual day of the college was organized on March 22, 2018. Dr. D M Salunke, Director, ICGEB, New Delhi was the Chief Guest on this occasion.
- The programme began with the ceremonial lighting of lamp followed by Invocation of Goddess Saraswati and BIHU dance by members of the North Eastern Cell of ANDC.
- Principal Dr. Savithri Singh presented the Annual Report highlighting the major achievements of the Staff and the Students. This was followed by an address by Dr. Salunke who spoke to the students about fascination of doing Science.
- The editors in chiefs of the College magazine, Shrutika and Manish, presented “Insight 2018” to the chief guest for release.
- Meritorious Students were awarded for their accomplishments.
- The college constituted a Service Award by the name *NISHTHA* in 2018: ANDC service award to felicitate college employees for completing twenty five years of regular service to college and Principal completing 10 years. The award consisted of a specially designed plaque, shawl and a certificate. Seven faculty members and the principal were decorated with Nishtha service award.
- The formal programme was wound up by a vote of thanks by Dr. Charu K Gupta, followed by a visit to the Theatre gallery.

6.2.1.2. Orientation Day

Convenors: Dr. Vatsala Kohli (Department of Mathematics), Dr. Seema Makhija (Department of Zoology)

Keeping its tradition, the College organized the Orientation Programme from from July 20-24, 2018 for the freshly admitted students to familiarize them with the College campus and make them interact with their teachers and classmates. The programme was held in two phases – College-specific and Department-specific.

- The College-specific Orientation Programme during July 20, 21 and 23, 2018 was clustered into the six sessions, i.e; College Orientation, Entrepreneurship & NSS and Research, Theatre and ECPDT, Talent Hunt, Counselling, ERP.
- Each session was of 3 hours and all the sessions were conducted parallelly, twice a day. Accordingly, the students were divided into six groups and each group

attended any two sessions in a day, completing all six sessions in three days.

- Each student's group was assigned a name based on the college initiatives, selected keeping in view the diverse areas. The initiatives selected were; *DHWANI*, *SASHAKT*, *EXPLORE*, *SAKSHAM*, *ELITE* and *inSTART*.
- The College Orientation started with the welcome address by the Principal. A detailed presentation was held to acquaint each student with the academic culture of the College, co-curricular and extra-curricular activities, attendance rules, internal assessment criteria, add-on courses, skill development through research and entrepreneurship, grievance cell, students' council and choice-based credit system, etc.
- In other sessions, convenors of each college committee interacted with the students and informed them about the initiative and activities held every year.
- On July 24, 2018 in Department-specific orientations, students interacted with their course teachers and seniors after which detailed and course specific information was provided to the students.

6.2.2. Annual Cultural Events Committee

Annual Cultural Fest: Leiothrixx 2019

Convenor: Dr. Seema Gupta (Mathematics)

- The College organized its annual cultural festival Leiothrixx 2019 on February 28 and March 1, 2019. Professor S.M. Anwar Alam, Chairperson, Governing body of the College was the Chief Guest on the occasion.
- A total of 26 events witnessed participation from 338 teams with more than 1000 students from various colleges from all around Delhi and NCR.
- Events included Marvel Quiz, Cosmodrop (DJ battle), Croquis (Sketching), Laughing Club, Genre Quiz, Bidding IPL, Hunt the view (Photography shoot), Beat Busters, Mono act, Spell bound (Spell bee), Battle of Bands, Dwand (Debate), Ad-Mad, Gully Cricket, Pitch Perfect (Singing), Carromania, Sangam (Debate), Kalakriti (Graffiti), Mr. and Ms. Leiothrixx, Catch the beat (Dance), Sahir (Street Play), Ankahe Alfaaz Mushaira, Kavi Sammelan, Hip Hop dance, Mode 'o' cine (Fashion Show), and Taal mel (singing)
- On Day 1, Ravator, a famous disc jockey carried out a splendid DJ night, which enthralled the gathered audience.
- On Day 2, B Parak a famous Punjabi singer and music director stole the show with captivating stage performance by singing some of his famous numbers.

6.2.3. National Service Scheme (NSS)

Convenor: Dr. Manisha Jain (Department of Chemistry),

Co-convenor: Dr. Pooja Bhagat (Department of Chemistry)

- NSS unit of ANDC started its academic year with the International Yoga Day celebration on June 21, 2018 with participation from Thirty NSS volunteers.
- Many NSS Volunteers provided huge assistance to the Administration in coordinating the undergraduate admission process from June 18 to July 19, 2018 and in organizing the Orientation programme 'Breaking Barriers' for first year students from July 20 to July 24, 2018.
- Ten NSS volunteers of ANDC successfully completed Swachh Bharat Summer internship programme 2018, launched by the Ministry of Human Resource Development in association with the Ministry of Drinking Water and Sanitation.
- NSS unit observed *Swachhta Pakhwara* for August 01-15, 2018. A total of 177 NSS volunteers contributed total of 919 working hours in the whole fortnight on *Swachh Parivesh* in Giri Nagar. Also NSS observed 'Swachhta Pakhwara' in the fortnight of September 01, 2018- September 15, 2018 as directed by Ministry of HRD through University of Delhi.
- NSS unit of the ANDC organized cleanliness awareness campaigns in the adopted villages on weekends. NSS Volunteers visited adopted villages, Zamrudpur, Govindpuri, Khanpur and Kotla. The Dramatics Society, 'Dhwani' organized *Nukkad Natak* entitled '*Hawabaazi*' in the areas near the college and villages adopted by NSS unit of ANDC on September 09, 2018.
- NSS unit celebrated Hindi Diwas on September 14, 2018 by organizing:
 - a. Creative Writing Competition,
 - b. Conventional Debate with Debating Society 'Tark': Eight teams participated in the conventional debate & prizes were declared; Devyansh Singh, B.Sc. Phys. Sc. (Chem) II year and Nikhil Dudeja, B.Sc. (H) Chemistry II year (1st Prize), Ishita Singh, B.Sc. Phys. Sc. (Chem) I year and Vidushi Saxena, B.Sc. (H) Zoo I year (2nd Prize) and Abhishek Shukla, B.Sc. (H) Computer Science, II year, and Mukund Nagpure, B.Sc. (H) Zoo I year (Appreciation)
 - c. Poetry Recitation Competition: Out of 25 participants, three best recitations were awarded; Vidushi, B.Sc. (H) Zoology I year -First Prize, Geetika Pathak, B.Com (H) III year-Second Prize, Nabarum -Third Prize
 - d. Quiz competition
- A Voter's registration Camp - Special Summary Revision of Photo Electoral Rolls Intensive Nature -2019, was held at Acharya Narendra Dev College, on September

27 and 28, 2018 as directed by Chief Electoral Officer, Delhi through DU NSS Centre. In this camp all Delhi based students who will turn eighteen on or before January 1, 2019, were provided with registration forms to apply for Voter's Identity cards.

- NSS organized first blood donation camp on Aug 18, 2018, for adopted Thalassemic patients and second with GTB Hospital Blood Bank on September 28, 2018. Around 170 volunteers (students, faculty, non-teaching staff) donated blood for the same.
- Twelve volunteers represented ANDC NSS unit in the Prakaram Parv (mark of respect and tribute to Indian Armed Forces) celebrations held at India Gate on September 29 and 30, 2018.
- Seventeen NSS Volunteers of ANDC participated in CPR (Cardio Pulmonary Resuscitation) Training at Talkatora Stadium, Delhi - an Event organised by Ministry of Youth Affairs and Sports and Heart Care Foundation of India on October 23, 2018.
- Diwali Mela 'Sahyog' was organized on Friday, October 26, 2018 in college front lawns. This year 14 NGO's working for the differently abled persons, underprivileged people and orphans participated in the event. A total sale of Rs. 70,000/- was observed and cultural programs by various college societies marked the event.
- On October 31, 2018, a 'Run for Unity' was organized in the college campus for Unity Day, in which 60 volunteers participated and took a unity oath.
- During the Vigilance Awareness Week (29 Oct – 03 Nov 2018), NSS Volunteers organized a Discussion Session on 'Eradicating Corruption: Build a New India' on November 01, 2018.
- Voter's Day on January 25, 2019 was marked with Voter's pledge was taken by ANDC Students being guided by Acting Principal Dr. Ravi Toteja.
- Two NSS Volunteers of ANDC separately attended One week National Integration Camps organized by ministry of Youth Affairs and Sports at Jamia Milia Islamia Delhi from December 23- 29, 2018 and at District Institution of Education and Training at Mandi, Himachal Pradesh from February 12-18, 2019.
- Ten NSS Volunteers participated in 'Walkathon on Road Safety' organized by Delhi Police, Traffic-SR & RSC, on February 04, 2019 at India Gate. Also a two hours interactive session 'Expressia' was organized in collaboration with India Road Safety Campaign (IRSC) and Delhi Police on February 08, 2019 at ANDC. ASI Hoshiar Singh and Parimal Bhati from Delhi Police and Ms. Saloni from IRSC interacted with students about the theme, Competitive activities like essay writing, slogan writing and poster competition were also organized.

6.2.4. 'Paritantra', Eco Club

Convenor: Dr. Seema Gupta (Department of Chemistry)

- The College has strictly prohibited the use of non-biodegradable disposables in the College Campus on recommendations of the Eco-Club. Professor S. M. Anwar Alam (Chairperson of the Governing body of the college) initiated it by giving steel glass and spoon to some of the Eco-Club volunteers September 5, 2018.
- A monsoon tree plantation and sapling distribution drives were organized on September 5, 2018. Professor S. M. Anwar Alam (Chairperson of the Governing body of the college), Professor Sudeshna Mazumdar-Leighton (Secretary, Garden Committee, University of Delhi) and Dr. B. C. Sabata (Senior Scientist officer, Ministry of Environment, Government of NCT of Delhi) were the chief guests of the occasion. About 200 saplings of Euphorbia sp., Ocimum sp., Tinospora cordifolia, Withania somnifera, Lemon grass, etc. were distributed to the staff members and students.
- Eco-Club 'Paritantra' organized a rally and street play on October 26, 2018 to promote a safe and eco- friendly Diwali amongst College students and neighboring areas.
- The Eco-Club student volunteers made the dustbins from waste materials for their respective departments to collect waste papers. The papers collected in these dustbins and paper from used files was sent for recycling through Green-O-Tech India on January 15, 2019.
- The Eco-Club volunteers participated in Environment Awareness Campaign involving Eco club schools and colleges on 23rd October 2018 during 25th Perfect Health Mela 2018 at Talkatora Indoor Stadium New Delhi. Eleven students presented Nukkad-Natak 'Hawabazzi' along with Dhvani (ANDC Theatre Society) and 15 eco-club volunteers performed Skit 'Haye Raam Yeh Kya Ho Gya' along with Myra (ANDC Dance Society) to spread the awareness.
- The Eco Club along with Dhvani (Theatre Society) won the first prize with Rs. 25000/- in an inter-College street play competition held on September 2, 2018 at DLF Saket organized by Swasthgram NGO on the theme of curbing air pollution and second prize in a Street Play competition of Eco-Clubs of Delhi Schools and Colleges during 25th Perfect Health Mela 2018 at Talkatora Indoor Stadium New Delhi held on October 23, 2018.
- The Eco Club along with Myra (Dance Society) won the first prize in a Skit competition of Eco-Clubs of Delhi Schools and Colleges during 25th Perfect Health Mela 2018 at Talkatora Indoor Stadium New Delhi held on October 23, 2018.

- The Eco-Club '*paritantra*' organized Legal Awareness Program on E-Waste Management on August 10, 2018.
- The workshop on 'Butterfly Campus Count' was organized on September 17, 2018 in the College in association with Bombay Natural History Society, Conservation Education Centre-Delhi with support of Department of Forests and Wildlife GNCT of Delhi in collaboration with Butterfly Research Centre of Bhimtal, Ninox and The Delight Factory during 'Delhi Butterfly Month 2018'.
- The Eco-club also organized an intra-College competition '*Akhbaar-e-libas*' on October 26, 2018 in which the students designed dress made from newspapers.
- Dr. Gagan Dhawan and Dr. Satendra Singh attended the World Ozone Day event organized by the Department of Environment celebrating on September 17, 2018 at Main Auditorium, Delhi secretariat.
- Indian Institute of Ecology and Environment, New Delhi awarded 'Plastic Free College of the Year Award' on the National Environment Convention-2018 to Eco-Club of ANDC.

6.2.5. Sashakt

Convenor: Dr. Geetika Kalra (Department of Botany)

- The Sashakt team welcomed the new batch of students and coordinated sessions sessions by inviting experts during three-day orientation programme for our first year students. The sessions were conducted by Ms. Koyel who is working with NGO 'Nazaria' who are working on gender sensitivity and awareness on sexual harassment.
- Sashakt Society organized an interactive session by developers of SANFE (an IIT Delhi venture) on Gender Sensitization and promoting women health care and hygiene on September 10, 2018.
- Sashakt Committee organized an interactive talk on "Empower HERstory", on October 29, 2018. Ms. Anju Kumari, an experienced corporate professional, motivational speaker and life skills trainer, delivered the talk.
- The Sashakt Society of ANDC organized a workshop on Women's Legal Rights on January 11, 2019. The workshop was conducted by 'Josh Talks' an NGO which goes by the tagline *#absamjhautanahi*. Ms. Somya Singhal, Campaign Manager from Josh talks was the speaker.
- Sashakt Committee organized a Self Defense Training workshop in collaboration with Delhi Police from March 5-15, 2019. 46 girls from our college participated with enthusiasm while learning various techniques to defend themselves from perpetual attacks.

- A Sashakt Committee Valedictory Function was organized on the last day of the Self Defense training workshop March 15, 2019. A poster making competition was organized to mark the occasion. The competition was followed by a demonstration performed by participants of the Self Defense Training workshop. They were awarded certificates at the end of the function.

6.2.6. Canteen Committee

Convenor: Dr. Sandeep Kumar Goel (Department of Commerce)

- This year, the college gave the canteen contract to M/S Green Bell Catering Services after following the rigorous selection procedure by inviting open tenders on the E Procurement Portal of the Government of India.
- The Canteen Committee along with Eco Club has initiated a drive to stop the use of all disposables (except paper plates) in the canteen.
- The Canteen Convenor, Dr. Sandeep Kumar Goel along with Mr. Brijendra Yadav and two students namely Abhishek Shukla and Ayushi Singh attended a One Day Basic Course in Food Safety and Hygiene Training at Lakshmibai College on September 22, 2018.

6.2.7. Dhwani

Convenor: Dr. Neelgagan Singh (Department of Zoology)

- Organized Orientation Workshop for the new academic batch with theatrical exercises and interactive session. The society performed Annual Street Production, '*Janhit Par Bhari*' for the college audience. Auditions were conducted for the new batch followed by workshop for theatrical skill development.
- On September 2, 2018, street play '*Hawabaazi*' was performed in the street play competition organised by *Swasthgram*, and won cash prize of Rs. 25000.
- *Dhwani* staged plays at PULSE (AIIMS) and Rendezvous (IIT Delhi). At Rendezvous, both street and stage plays were performed with stage play getting selected in the top 5.
- Street play '*Hawabaazi*' was performed at the MTNL Perfect Health Mela, an event organized by the Delhi Government where it bagged the II position
- Staged a play at MoodIndigo, the cultural fest of IIT Bombay (December 25, 2018-January 1, 2019).
- Performed Stage and Street plays at various colleges of the University of Delhi.

Annual Theatre Production (January 29-30, 2019):

- Each year *Dhwani* organises its Annual Theatre Production, performed at Shri Ram Centre for Performing Arts, Mandi House. This year '*Leela*' a satire on the

social norms and conditions based on the work of Bhisham Sahni's '*Muaawze*' and Rewti Sharan Sharma's '*Parmatma*' was staged. The play is directed by one of the prominent theatre personality Mr. Ajay Manchanda.

6.2.8. North East Cell

Convenor: Dr. Subhash Kumar (Department of Physics)

This year the NE cell, under the aegis of '*Ek Bharat Shrestha Bharat*' of the MHRD, Govt. of India organised events in the college which provided the college an unique opportunity to the college community to know and assimilate the rich cultural tapestry of the states of the North East of India.

- On February 28, 2019 the NE cell presented a Manipuri fusion group dance titled 'Rasleela' which vividly depicted an alternative narrative of the Krishna tradition. This presentation was a component of the inaugural function of the Annual College Fest-2019.
- During Annual College Fest-2019 the NE cell also set up a food stall (March 1, 2019) completely managed by the students exclusively for the cuisines of the north-east region of India.
- The North East cell is also planning to organise a literary fest in the college.

6.2.9. Library Committee

Convenor: Dr. Sarita Kumar (Department of Zoology)

Librarian: Ms. Namrata Arora

- No. of books added this year: approx 950
- Library has organized two days Annual Book Exhibition on September 10-11, 2018 in the library for the faculty & students. As usual renowned Publishers & Book Sellers like Prentice Hall of India, Unilib Book Dist. Pvt.Ltd., Asian Book Centre, Narosa Publishing House, N.R.Book Distributor, Pearson Education, Cambridge University Press, Oxford University Press, New Age, Panima Educational Agency, S.Chand & Co., Techniz Books International, Wiley India, Scitech Publications Pvt.Ltd., Prestige Publishers & Saurabh Books International participated in the exhibition & displayed their books in the library.

6.2.10. TARK: The Debating Society

Convenor: Mr. Manoj Kumar Garg (Department of English)

TARK, the Debating Society of ANDC had a remarkable year, in terms of prize won and events organised. The society won 23 prizes in various inter-college events at individual or team level.

The Society conducted auditions on August 10-11, 2018 for which 317 students registered. Regular workshops and sessions were conducted during the year to give the members practice of the various forms of debating.

Intra-college events organised by Tark

- The society organized its annual festival, '*Tarkash*', on March 22, 2018. Under this three events were conducted, turncoat debate, *Boliye Janaab* and Just A Minute (JAM).
- A Debate was organised under the Science Setu Programme on August 30, 2018.
- An intra-college Debate was organised on the occasion of Hindi Diwas, in collaboration with NSS of ANDC, on September 14, 2018.
- On September 20, 2018, TARK organised "*Aagman*", the Annual Freshers' Debate that constituted a turncoat debate, an extempore debate and a conventional debate.
- On January 11, 2019, TARK organised a speech competition in collaboration with '*Desh Ki Baat*'

Workshops/Talks Organised

- Workshop on parliamentary debate on October 4, 2018 by Mr. Aadarsh Shukla, the renowned journalist of AAJTAK
- Workshop on January 7, 2019 on Model United Nations (MUN) by Mr. Shubhit Gulati, the famous food blogger and expert MUNer
- Motivational talk by Ms. Ira Singhal (UPSC CSE 1st rank holder) on January 24, 2019.

Prizes won at Inter-college Events

1. Nikhil Dudeja of B.Sc. (H) Chemistry II Year got the first prize at a debate competition organised by Jamia Millia Islamia on April 3-4, 2018.
2. Kshitij Jaiswal of B.Sc. (H) Mathematics III Year got the first prize at the poetry competition organised at Kamla Nehru College. A Tark team comprising of Vidushi Saxena of B.Sc. (H) Zoology I Year, Yukta Kandpal of B.Sc. (H) Physics I Year, and Kshitij Jaiswal lifted the running trophy.
3. At the annual fest of AIIMS Delhi, on September 17-18, 2018, TARK members performed brilliantly. Eshita Singh of B.Sc. Physical Sciences with Chemistry I Year was declared the winner in Hindi point counterpoint. Ishan Ahmed of B.Sc. (H) Computer Science II Year and Amit Raj of B.Com. (H) II Year got the second and third prize respectively in the extempore debate organised during the same event.
4. On September 24, 2018, Sibaram Sadangi and Vikas Shukla of B.Sc. (H) Biomedical Science III Year won the second prize in a debating competition held by the

Regional Centre for Biotechnology. Vikas also won the prize of best speaker for the motion.

5. Vibhu Singh of B.Sc. (H) Computer Science I Year and Mukund Nagpure of B.Sc. (H) Zoology I Year won the third prize in the conventional debate held at Hindu College on October 9, 2018.
6. Vineet Krishna Srivastava of B.Sc. (H) Computer Science III Year won the third prize in the extempore debate organized at Kalindi College on October 9, 2018.
7. Amrit Dutta of B.Sc. (H) Physics I Year won the second prize at the essay writing competition organised at Shyam Lal College on October 11, 2018.
8. Rohit Gokhle of B.Sc. (H) Biomedical Science I Year received the third prize worth Rs. 6000 in a competition organised at the International Management Institute, New Delhi.
9. On October 12, 2018, in a quiz competition, held at Rajguru College, Devesh Rawat of B.Sc. Life Sciences I Year won the first prize.
10. On January 10, 2019, Siddharth Mehdiratta of B.Sc. (H) Biomedical Science I Year won the first prize in JAM organised by MSIT.
11. Divyansh Vijay Singh of B.Sc. Physical Sciences with Chemistry II Year won the prize of best interjector in a conventional debate, organised by Keshav Mahavidyalaya, on January 21, 2019.
12. Vijay Pratap Singh Rajawat got the III Prize in 'Anugunj Sahityautsav' at Ramjas College on January 28, 2019.
13. On February 11, 2019, Siddharth Mehdiratta of B.Sc. (H) Biomedical Science I Year got the first prize after clearing a series of debating rounds at Kirori Mal College.
14. Kumud Kaul of B.Sc. (H) Biomedical Science I Year won the second prize in the speech competition at SRCC on February 15, 2019.
15. Mansi Arora of B.Sc. (H) Biomedical Science I Year got a cash prize in slam poetry at Sri Venkateswara College.
16. Annie Singh Batra of B.Sc. (H) Biomedical Science I Year won the best interjector prize in a conventional debate competition at GGSIP University on February 22, 2019.
17. Vineet Kumar of B.Sc. (H) Physics I Year got the first prize in Wordsmith organized by Deshbandhu College on February 25, 2019.
18. Siddharth Mehdiratta of B.Sc. (H) Biomedical Science I Year won the second prize in Elocution at Deshbandhu College on February 25, 2019.
19. Annie Singh Batra of B.Sc. (H) Biomedical Science I Year won the second prize in the Declamation at Vivekanand College on February 26, 2019.

6.2.11. Sports Committee

Convenor: Dr. Charu Khosla Gupta (Department of Botany)

- The Sports committee of ANDC started year with election of the sports president and 11 team coordinators that were made among the students. In the 1st semester, **Sports league** was organized. Over 600 students' boys and girls of all the courses took part in different team events including 11 Cricket teams, 10 Football teams, 6 Basketball teams, 11 Volleyball teams and 6 Kabaddi team, Badminton events, Athletics, Chess and Carrom.
- **Winners of the Sports league:** B.Sc. (H) Physics won Badminton Men's Singles and B. Com. (H) were the runner up. B.Sc. (H) Biomedical Science won Badminton Women's singles and B.Sc. (H) Botany were the runner up. B.Sc. (H) Biomedical Science won Badminton men's doubles and B. Com. (H) were the runner up. B.Sc. (H) Botany won Badminton women's doubles and B.Sc. (H) Zoology were the runner up. B.Sc. (H) Physical Science won Badminton Mixed Double and B. Com. (H) were the runner up. B. Com. (H) won Basketball Men's and B.Sc. (H) Electronic were the runner up. B.Sc. (H) Biomedical Science won both the 1st and 2nd position in chess men. B.Sc. Life Science won chess women's and B.Sc. (H) Computer Science were the runner up. B. Com (H) won both 1st and 2nd position in table tennis men's singles. B.Sc. Physical Science won the cricket men's match and B.Sc. (H) Botany were the runner up. B. Com. (H) won the football men's match and B.Sc. (H) Mathematics were the runner up. B.Sc. Physical Science won kabaddi men's match and B.Sc. (H) Physics were the runner up. B.Sc. Physical Science won volleyball men's match and B.Sc. (H) Computer Science were the runner up. B.Sc. (H) Biomedical Science won the volleyball women's match and B.Sc. (H) zoology were the runner up.
- In the 2nd semester, Intra College Sports Tournament -2018-19 was organized on March 11-15, 2019. More than 200 students took part in the tournament.
- **Winners of Intra College Sports Tournament -2018-19:** B. Com (Hons.) won both the 1st and 2nd position in table tennis men's singles. B.Sc. (Hons.) Biomedical Science won badminton women singles and B.Sc. Physical Science were the runner up. B. Com. (Hons.) won both the 1st and 2nd position in badminton men singles. B.Sc. (Hons.) Chemistry won the chess match and B.Sc. (Hons.) Biomedical Science were the runner up. B.Sc. (Hons.) Botany won the volleyball men match and B.Sc. Physical Science were the runner up. B.Sc. (Hons.) Zoology won the volleyball women match and B.Sc. (Hons.) Biomedical Science was the runner up.

- SPORTS DAY was organized with great enthusiasm on March 15, 2019. The chief guest for sports day, Professor Vinay Gupta along with Principal awarded trophies, certificates and T-Shirts to the winners and runner-ups and wished them luck for their future.
- ANDC College Team Participated in Delhi University Inter College Sports Tournament, 2018-19 were Cricket (Men), Football (Men), Volleyball (Men), Volleyball (Women), Basketball (Men), Badminton (Men), Badminton (Women), Athletics (Men & Women), Lawn Tennis (Men), Lawn Tennis (Men) and Chess (Men)
- Best Sports Women-2018-19: - Kajal won the gold at inter college athletics meet and participated in all India University.
- Best Sports Men ANDC-2018-19: - Devender Choudhary won bronze at men's javelin throw at inter college meet and got 3rd place at Delhi state.

6.3. Departmental Activities

Department of Biomedical Science

TIC: Dr. Sunita Jetly

- Organized inaugural lecture of CATHEXIS (under the aegis of DBT STAR College scheme) on October 25, 2018. Professor Rajiv Janardhanan, Director, Amity Institute of Public Health and Professor Priya Ranjan, Amity School of Engineering and Technology, Noida, delivered the lecture - "e-Health: Exploring its potential for Healthcare Delivery".
- Excursion trip was organised for II year students (under EXPLORE scheme) from October 30 to November 2, 2018. The students visited Ranthambore and Jaipur. A total of 34 students and 4 staff members went for the trip.
- The annual function of CATHEXIS was organised (under the aegis of DBT STAR college scheme) on January 31, 2019. Dr. Anurag Agrawal, Director IGIB (CSIR) delivered a talk on "Demystifying myths surrounding human health". Students' activities such as Quiz, Sci-Charades, Treasure Hunt and Fashion show were organized. The departmental magazine BioMeR was also released.
- Organized a one day workshop (under the aegis of DBT STAR college scheme) on "FOLDSCOPE" (February 2, 2019). Coordinator: Dr. Sunita Jetly; Resource person: Dr. Uma Chaudhary, Bhaskaracharya College of Applied Sciences.
- A trip of I Year students was organized to Department of Zoology, DU (under the aegis of DBT STAR college scheme) on March 7, 2019. Students observed *Drosophila* cultures, life cycle stages and mutant flies.

- Organised a two-day workshop (under aegis of DBT STAR college scheme) on “Learning R-programming Skills and Applications to Proteomics” (March 15-16, 2019). Convenor: Dr. Gagan Dhawan.
- A trip of II Year students was organized to Finger Print Department, Crime Branch, Delhi Police, Delhi (under the aegis of DBT STAR college scheme) in March, 2019.
- Organized a talk (under the aegis of DBT STAR College Scheme) on March 29, 2019. Dr. Surender Nimesh from Department of Biotechnology, Central University of Rajasthan, delivered a talk on “*Silver nanoparticles: Biosynthesis and Therapeutic Applications*”.
- Organised one-day workshop (under aegis of DBT STAR college scheme) on “Fraud, Forgery, and Forensics: Examining Handwriting, Fingerprints and Security Documents” (April 3, 2019). Convenors: Dr. Archana Pandey and Dr. Sunita Jetly.

Department of Botany

TIC: Dr. Anupama Shukla

- Field Excursion trip was organised for II year students of B.Sc. (H) Botany and B.Sc. Life Sciences (under EXPLORE scheme) from October 5-9, 2018. The students visited Dalhousie and Khajjiar, Himachal Pradesh. The trip included visit to the Great Himalayan National Park (GHNP), Serloskar Lake trek and Jalori Pass, and Chhoie Waterfall. A total of 65 students and 10 staff members went for the trip.
- Organized Dr. Saumya Saxena Memorial Lecture on March 26, 2019. Dr. Pradeep Kumar Srivastava from Central Drug Research Institute, Lucknow delivered a talk on ‘Bionics and Bionic Engineering: Learning Science from Nature’. He introduced the students to Sciencetons and Sciencetronics.

Department of Chemistry

TIC: Dr. Geetu Gambhir

- A lecture on career counselling and future for Chemistry students was organized on February 8, 2019. Speaker: Mr. Neeraj Kansla.
- The Departmental Society, Abhikriya organised its annual festival, Synergia 2019 (under the aegis of DBT STAR College Scheme) on February 13, 2019. Prof. Dhananjay V. Gadre, NSUT delivered a talk on “*Tinkering for Scientists*”. Prof Gadre is Director of Centre for Electronics Design and Technology (CEDT) and TI Centre for Embedded Product Design (TI-CEPD). Various co-curricular activities like Chemistry Quiz, poster making and chemistry related fun games were also organized.

- Excursion trip was organised for II year students (under EXPLORE scheme) from March 25 to March 29, 2018. The students visited Dharamshala, Himachal Pradesh. A total of 31 students and 4 staff members went for the trip.

Department of Commerce

TIC: Ms Poonam Chauhan

VANIJYA-the Commerce society organized its annual fest – CORPOMAZE 2019 on February 7, 2019. CORPOMAZE, fosters creativity by providing a platform to the students to showcase their commerce and economics related knowledge. The fest included various events like CRICBID, BRANDBOLA, IDEASTORM, KORERO and ADO MEDIA. Prizes worth around 2.7Lakhs were distributed to winners.

Department of Computer Science

TIC: Dr. Harita Ahuja

- Turing society of Department of Computer Science organized a technical talk on 'Turing test to Deep *learning*' (under the aegis of DBT STAR College scheme) on September 19, 2018. Convenor: Dr. Chandra Kanta Samal; Resource Person: (Prof.) Dr. Vasudha Bhatnagar.
- Department of Computer Science in collaboration with ICT Academy and AWS Educate, organised cloud literacy day on October 9, 2018. The event presented various aspects of cloud computing through online lectures. Convenor: Dr. Preeti Marwaha; Resource Person: Mr. Lovkesh, ICT Academy
- Department of Computer Science (under DBT STAR college scheme), organised an educational industrial visit of students of B.Sc.(H) Computer Science I and II year to ASHOKA (Super Computing Facility) and Data Centre-ICAR at Indian Agricultural Statistics Research Institute (IASRI) on October 11, 2018. Students also visited Nanaji Deshmukh phenomic facility centre at Indian Agricultural Research Institute (IARI), Pusa where they got to learn about phenotyping of plants by using automated, high-tech imaging systems, and computing techniques. Coordinators: Dr. Preeti Marwaha, Ms. Anu Praveen.
- The Turing Society of the Department of Computer Science organized a talk/discussion on 'Top Careers in I.T. in 21st Century' in association with the Landmark Institute, Patel Nagar, New Delhi on February 6, 2019. The event was attended by the students of the Computer Science and Electronics Department. The one-hour session covered topics like Product and Service based industry in the IT industry, Career opportunities in Artificial Intelligence, Data Science, Web Development,

Cyber Security etc. Convenor: Dr. Chandra Kanta Samal; Resource Person: Prof. R. Chadha, Landmark Institute.

- The Turing Society of Department of Computer Science (under the aegis of DBT STAR college scheme) organized a technical talk on ‘*Chaos Engineering*’ on February 15, 2019. Convenor: Dr. Chandra Kanta Samal; Resource Person: Mr. Jitender Singh.
- The Turing Society of the Department of Computer Science organized the annual technical festival OVERLOAD++ on February 15, 2019. A number of educational and technical gaming competitions like CODE MASTERS, FIFA17, NFS2k18, Mischief Managed and Mock CID were organized in the fest. Convenor: Dr. Chandra Kanta Samal
- The Department of Computer Science organized a two day workshop on FOSS and LINUX for freshers from August 28 to September 4, 2018

Department of Electronics

TIC: Dr. Ravneet Kaur

- Inaugural lecture of departmental society (under the aegis of DBT STAR Scheme), organized on September 20, 2018. Mr. Rohit Gambhir, was the key speaker of the function. He is an alumnus of our college and currently the Lead in Mobile Application Development at QA Infotech. He delivered an informative talk on “Current trends in Mobile Application Development”.
- Invited talk (under the aegis of DBT STAR Scheme), organized on October 4, 2018. Ms. Anju Kumari was the key speaker of the function. She is a motivational speaker and life skills trainer. She is also the Founder of Crafting Leaders. She delivered an inspiring talk on “Professional conduct with positive attitude”.
- The Electronica Society of Department of Electronics organized its annual departmental festival 'ElectroBlitz', under the aegis of DBT STAR Scheme, on January 31, 2019. Professor Mridula Gupta from Department of Electronic Science, University of Delhi, South Campus delivered a talk on “*Satellite Communication*”. Students also organized various events like Quizoholic, Treasure hunt, Gaming events and Just a minute (Talent hunt).

Department of Mathematics

TIC: Dr. Chaman Singh

- Excursion trip was organised for II year students of B.Sc. (H) Mathematics and B.Sc. Physical Science (Chemistry) (under EXPLORE scheme) from October 13-18, 2018. The students visited Goa. A total of 44 students and 6 staff members went for the trip.

- The Department of Mathematics organised its fest “INFINIX”, 2018 under the Mathematical Society “MATRIX” on November 1, 2018. Professor Ajay Kumar, HOD, Department of Mathematics, University of Delhi delivered a lecture on “Continuity and Uniform Continuity”. Competitive events like Quizztech, MagicSquare, Just-A-Minute were also conducted.
- The Department of Mathematics under its Mathematical Society “MATRIX” organised a talk on the topic “Power of Positive Thinking” by Mr. Sohanpal Yadav on March 13, 2019.

Department of Physics

TIC: Dr. Shalu Dhanda

- Two days hands-on workshop (under the aegis of DBT STAR College scheme) on Arduino Microcontrollers– involving Basic Programming & Applications (April 11-12, 2018). Convenor: Dr. Arijit Chowdhuri; Coordinator: Dr. V. Bhasker Raj.
- Two days workshop (under the aegis of DBT STAR College scheme and in collaboration with Joy of Learning Foundation) on ‘Paradigm shift in Physics Education through hands-on techniques in Optics’ (September 5 & 7, 2018). Undergraduate students of third semester B.Sc. (H) Physics and B.Sc. Physical Sciences were trained on finer nuances of using sensitive instruments and understanding optical phenomena. Coordinators: Dr. Manisha Verma and Dr. Sanjeeta Rani. Convenor: Dr. Arijit Chowdhuri.
- Exploratory cum educational trip (under the EXPLORE scheme of the College) organized for 67 students belonging to B.Sc. (H) Physics and B.Sc. Physical Sciences from October 22 – 26, 2018. The students visited Camp Kanatal and Mussoorie in Uttarakhand.

Department of Zoology

TIC: Dr. Sarita Kumar

- Excursion trip was organised for I and III year students of B.Sc. (H) Zoology as a part of their course curricula for respective papers - ‘*Perspectives of Ecology*’ and ‘*Animal Behaviour and Chronobiology*’ from October 25-29, 2018. A total of 64 students were accompanied by 5 teachers and 5 non-teaching staff members. The students visited Ranthambore National Park and Jaipur, Rajasthan.
- Niche, the Zoological Society of Acharya Narendra Dev College organized its inaugural talk on October 10, 2018 (under the aegis of DBT Star college scheme). Eminent researcher Dr. Shailja Singh, Associate Professor, Special Center for

Molecular Medicine, Jawaharlal Nehru University was invited as the guest speaker. She delivered a talk on ‘*Contemporary Approaches in Antimalarial Drug Discovery*’. She explained the mechanism of *Plasmodium* parasite infection in human beings and the phases/proteins in parasite life cycle that can be used as the target for formulating antimalarial drug. She discussed how natural chemical diversity can be explored by modernized and systematic approaches to develop novel compounds for combating malaria.

- Zoological Society "NICHE" organized annual festival 'SYMBIOX' on February 19, 2019 under the aegis of DBT Star Scheme. Dr. Kamaraju Raghavendra; Deputy Director, National Institute of Malaria Research, Dwarka, delivered a talk on the topic – ‘*Malarial Elimination in India: Role of Vector Control*’. Various fun filled activities such as Quiz, Spell Bee, Pictionary Event - Spell N' Draw, Musical Chair, Lens the Campus, Breakout and Meme O' Clash were organized.

6.4. EMPLOYEES WELFARE INITIATIVE

1. Mr.Vaneet Kumar, S/o. Pritam Chand, Driver who expired on March 31, 2018 was appointed on regular basis as MTS-Laboratory on compassionate grounds.
2. Fee relaxation for Foreign language certificate courses for wards of college non-teaching employees who are pursuing their regular studies from Acharya Narendra Dev College.

6.5. EDUCATION CONCLAVE “EDUCATION DECONSTRUCTED: DIALOGUES WITH EXPERTS

Coordinator: Dr. Ravi Toteja

Members:

- | | |
|--------------------------|---------------------|
| • Dr. Sarita Kumar | • Dr. Urmi Bajpai |
| • Dr. Seema Gupta | • Dr. Seema Makhija |
| • Dr. Sharanjit Kaur | • Dr. Manisha Jain |
| • Dr. Rajesh Chaudhary | • Dr. Subhash Kumar |
| • Dr. Charu Khosla Gupta | • Dr. Sandeep Goel |
| • Dr. Arijit Chowdhuri | • Dr. Chaman Singh |
| • Dr. Amit Garg | • Mr. Sanjay Vohra |

The College organized an Education Conclave “*Education Deconstructed: Dialogue with Experts*” on Friday November 2, 2018 in its premises.

The scope of the conclave was to deliberate among academics and academic administrators the new initiatives with education and pedagogy which ANDC has

adopted. The conclave was attended by a educationists, scientists, researchers and policy makers. Professor Bhusan Patwardhan, Vice-chairman, University Grants Commission (UGC) was the Chief Guest. He delivered the inaugural address. This was followed by two interactive sessions where the participants deliberated on the contemporary challenges in undergraduate education in India, while keeping in context the initiatives at ANDC. Participants also visited various research laboratories and other facilities available to students in the college.

6.6. INTERNATIONAL SYMPOSIUM ON CILIATE BIOLOGY 2018 (ISCB 2018)

Joint Secretaries: Dr. Ravi Toteja and Dr. Seema Makhija

The International Symposium on Ciliate Biology 2018 (ISCB 2018), co-organized by Acharya Narendra Dev College, Maitreyi College and SGTB Khalsa College, University of Delhi, was held on April 4-6, 2018 at India Habitat Centre. The symposium was conducted in partnership with International Research Coordination Network for Biodiversity of Ciliates (IRCN-BC), an affiliate society of International Society of Protistologists (ISOP). Dr. Mahesh Sharma, MoS, Ministry of Environment, Forest and Climate Change, graced the inaugural and Professor Chandrima Shaha, Vice President (Foreign Affairs), Indian Academy of Sciences was the chief guest at the Valedictory. A large contingent of national ciliate biologists was joined by 9 overseas scientists to deliver 20 oral and 57 poster presentations. The specializations varied from biodiversity to ecology, evolution, role of ciliates in the food web of soil and water, their role as bio-indicators of pollution and in bioremediation among other fields. Use of ciliates as excellent eukaryotic unicellular model systems in science teaching and research was well brought out by all presenters. A large participation of under-graduate students was a highlight of the symposium. Their enthusiasm in presenting their work and interactions with senior scientists won everyone's heart. Zoological survey of India (ZSI) came a big way as not only print partners but also in co-organizing a workshop "Tools and Techniques used in Ciliate Studies" which was very enthusiastically attended by over 50 participants. The symposium was financially supported by international agencies – ISOP and IUBS – and by several national governmental agencies including INSA, DBT, DST-SERB, CSIR, ICMR, DRDO, ZSI.

7. DEPARTMENT OF BIOTECHNOLOGY (DBT) STAR COLLEGE SCHEME

DBT has recommended for 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. 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.

The Scheme offers young scholars and faculty at the UG level an opportunity to excel in scientific research. The programme emphasizes on the holistic improvement of science education at the undergraduate level with special emphasis on practical training. The initiative provides support for

- Improving knowledge and skills of teachers in basic and applied sciences.
- Providing specialized infrastructure to students.
- Assuring a sufficient supply of consumables, reagents and chemicals for students.
- Promoting critical thinking and providing substantial hands-on training to design and conduct experiments.
- Increasing access to knowledge banks with strong support of books and journals including e-journal facilities.

Star College Scheme Coordinator	Dr. Ravi Toteja
Departmental Coordinators	
Biomedical Science	Dr. Archana Pandey
Botany	Dr. Rashmi Sharma
Chemistry	Dr. Seema Gupta
Computer Science	Dr. Harita Ahuja
Electronics	Dr. Ravneet Kaur
Physics	Dr. Arijit Chowdhuri
Zoology	Dr. Seema Makhija

7.1. HANDS-ON TRAINING TO STUDENTS

Biomedical Science

S. No.	Programs	Dates	Convenor/s	Participants
1	One day workshop on “FOLDSCOPE”	February 2, 2019	Dr. Sunita Jetly	Undergraduate Students from ANDC
2	Two day workshop on Learning R programming Skills and Applications to Proteomics	March 15-16, 2019	Dr. Gagan Dhawan.	Undergraduate, Post graduate and PhD students from AIIMS, JNU, DU, INMAS, CSIR-IGIB, NSUT, ACBR and ANDC
3	One-day workshop on “Fraud, Forgery, and Forensics: Examining Handwriting, Fingerprints and Security Documents”	April 3, 2019	Dr. Archana Pandey and Dr. Sunita Jetly	Undergraduate students from ANDC and other DU colleges

Botany

S. No.	Programs	Dates	Convenor/s	Participants
1	RBPT based 3 day workshop on ‘Microbial Techniques’	April 4-6, 2018	Dr. Rashmi Sharma	15 students from 5 colleges of DU

Electronics

S. No.	Programs	Dates	Convenor/s	Participants
1	SPIE Chapter (Orientation Day)	July 20-23, 2018	Dr. Amit Garg	I Semester students of various courses
2	Induction Workshop (SPIE)	September 25-26, 2018	Dr. Amit Garg	Undergraduate students of ANDC

Physics

S. No.	Programs	Dates	Convenor/s	Participants
1	2-day workshop on Arduino Microcontrollers	April 11-12, 2018	Dr. Arijit Chowdhuri, Dr. V. Bhasker Raj	Undergraduate students from Miranda house, ANDC & postgraduate students from Jamia Milia Islamia and University of Delhi South Campus

2	3-day workshop on Paradigm shift in Physics Education through hands-on techniques in Optics	September 5-7, 2018	Dr. Arijit Chowdhuri, Dr. Manisha Verma and Dr. Sanjeeta Rani	B.Sc.(H) Physics B.Sc.Physical Sciences
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Zoology

S. No.	Programs	Dates	Convenor/s	Participants
1	One day work shop on ELISA	February 13, 2019	Dr. Ravi Toteja, Dr. Seema Makhija	B.Sc.(H) Zoology B.Sc. Life Sciences

7.2 INVITED TALKS

Biomedical Science

Invited Speaker	Title of Talk	Date	Affiliation
Professor Rajiv Janardhanan and Professor Priya Ranjan	e-Health: Exploring its potential for Healthcare Delivery	October 25, 2018	Amity University, Noida
Dr. Anurag Agrawal	Demystifying myths surrounding human health	January 31, 2019	Director IGIB (CSIR)
Dr. Surender Nimesh	Silver nanoparticles: Biosynthesis and Therapeutic Applications	March 29, 2019	Department of Biotechnology, Central University of Rajasthan

Botany

Invited Speaker	Title of Talk	Date	Affiliation
Prof Suman Kundu	Interesting aspect of research in hemoglobin	October 11, 2018	University of Delhi
Prof S.B. Babbar	DNA Barcoding	October 24, 2018	University of Delhi

Dr. Ganesh Bagler	Computational Gastronomy	February 14, 2019	IIIT, Delhi
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Chemistry

Invited Speaker	Title of Talk	Date	Affiliation
Dhananjay V. Gadre	Tinkering for Scientists	February, 13, 2019	Associate Professor Netaji Subhas University of Technology

Computer Science

Invited Speaker	Title of Talk	Date	Affiliation
Dr. Vasudha Bhatnagar	Technical Talk On Turing Test To Deep Learning	September 19, 2019	University of Delhi
Mr. Jitender Singh	Chaos Engineering	February 15, 2019	

Electronics

Invited Speaker	Title of Talk	Date	Affiliation
Mr. Rohit Gambhir	Current trends in Mobile Application Development	September 20, 2019	Lead in Mobile Application Development at QA Infotech
Ms. Anju Kumari	Professional conduct with positive attit	October 04, 2018	Motivational Speaker
Professor Mridula Gupta	Satellite Communication	January 31, 2019	University of Delhi

Physics

Invited Speaker	Title of Talk	Date	Affiliation
Prof. Hark Hoe Tan	Nanotechnology – Applications in Optoelectronics and Renewable Energy	January 31, 2019	Research School of Physics & Engineering, Australian National University, Canberra, Australia

Invited Speaker	Title of Talk	Date	Affiliation
Professor Vinay Gupta	Functional Materials for Device Applications	March 15, 2019	Dean Examination, University of Delhi
Mr Sujit Kumar	Molydenum DiSulphide (MoS ₂): a promising 2D Material	March 15, 2019	Visiting Scholar at National Device Laboratory, Taiwan and Taiwan Semiconductor Manufacturing Company (TSMC)
Ms. Phalguni Mathur	Multiple-Input and Multiple-Output (MIMO) antennas for 5G and Internet of Things	March 15, 2019	Research scholar at Bharatiar University

Zoology

Invited Speaker	Title of Talk	Date	Affiliation
Dr. Shailja Singh	Contemporary Approaches in Antimalarial Drug Discovery'	October 10, 2018	Associate Professor, Special Center for Molecular Medicine, Jawaharlal Nehru University
Dr. Kamaraju Raghavendra	Malarial Elimination in India: Role of Vector Control'	February 19, 2019	Deputy Director, National Institute of Malaria Research
Mr Vikas Sachdev	Non-Invasive Techniques as Diagnostic Tools	February 13, 2019	Department of Gastroenterology, All India Institute of Medical science

7.3. EDUCATIONAL TRIPS

Biomedical Science

- Excursion trip was organised for II year students (under EXPLORE scheme) from October 30 to November 2, 2018. The students visited Ranthambore and Jaipur. A total of 34 students and 4 staff members went for the trip.

2. A trip of I Year students was organized to Department of Zoology, DU (under the aegis of DBT STAR college scheme) on March 7, 2019. Students observed *Drosophila* cultures, life cycle stages and mutant flies.
3. A trip of II Year students was organized to Finger Print Department, Crime Branch, Delhi Police, Delhi (under the aegis of DBT STAR college scheme) in March, 2019.

Computer Science

An educational industrial visit of students of BSc (H) Computer Science 1st and 3rd semester to ASHOKA (Super Computing Facility) and Data Center-ICAR at Indian Agricultural Statistics Research Institute (IASRI) on October 11, 2018. The trip was organised to introduce students with use of computer technology and specially supercomputers in the field of agriculture. High Performance Computing is becoming critical in agricultural activity, plague control, pesticides design, and pesticides effects. Students also visited Nanaji Deshmukh phenomic facility center at Indian Agricultural Research Institute (IARI), Pusa where they got to learn about phenotyping of plants by using automated, high-tech imaging systems, and computing techniques.

Physics

1. The Department of Physics planned a visit for its students to Inter University Accelerator Centre (IUAC) located at Vasant Kunj in two trips of 10 students each on February 5 & 28, 2019. Formerly known as Nuclear Science Centre, scientists introduced the concept of accelerators and types of accelerators having wide applications in various research fields.
2. Undergraduate students of the Department of Physics were sent to INSA to attend a one-day seminar on the occasion of conferment of Meghnad Saha Medal (2018) Award, The programme had a lecture delivered by Prof. Ashutosh Sharma, Secretary, DST on "Navigating Complexity by Common Sense" and the Release of INSA Publications by Professor K. Vijay Raghavan, Principal Scientific Advisor, Government of India.
3. Undergraduate students of the Physics Department attended the investiture ceremony at Vigyan Bhawan, Maulana Azad Marg, New Delhi wherein Council of Scientific & Industrial Research (CSIR), Govt. of India announced Winners of the most Coveted and Prestigious 'Shanti Swarup Bhatnagar' awards. The awards are given out every year on the Foundation Day of CSIR and are bestowed over Indian scientists by Hon'ble Prime Minister at a special function.
4. Students of Final year B.Sc. (H) Physics were taken to an educational trip to EMDL, Department of Physics & Astrophysics, University of Delhi and introduced frontier areas of research in experimental material science. The students learnt rudiments

of thin film deposition techniques including RF Sputtering, Thermal Evaporation, Sol-gel, Pulsed LASER deposition (PLD) and Molecular Beam Epitaxy (MBE).

5. Students of Final year B.Sc. (H) Physics and B.Sc. Physical Science (Electronics) were taken on an educational trip to Microelectronic Devices Fabrication Laboratory based in University of Delhi, Delhi. Therein the students were given a hands-on feeling of working in an advanced semiconductor fabrication laboratory.

Zoology

1. The Indian International Science Festival which was organised by the Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indra Gandhi Pratishthan, Lucknow; held from October 5-8, 2018.
2. Four students from Acharya Narendra Dev College, University of Delhi, Aakash Kumar (B.Sc. Life Sciences 3rd Year), Aditya Khandelwal (B.Sc. Life Sciences 3rd Year), Manisha Bishnoi (B.Sc. Zoology Hons. 2nd Year, Surbhi Singh (B.Sc. Zoology 2nd year) were given the opportunity to visit the Translational Health Sciences and Technology Institute and work under their scientists for a period of one week from December 20-28, 2018. They worked in the Pediatric Biology Centre (PBC) of THSTI.
3. The students of B.Sc. Life Sciences (Vth Semester), Acharya Narendra Dev College, University of Delhi, who were studying the paper of 'Animal Biotechnology' visited Dr. Shailja Singh's lab on October 30, 2018.

7.4. RESEARCH PROJECTS

Botany

S.No.	Mentors	Title of Project	Students
1	Dr. Rashmi Sharma and Dr. Manisha Jain (Department of Chemistry)	Survey of plants for presence of trypsin modulators	Vikramjeet Singh, Amit Kumar, Diksha Tiwari, Chetna, Alok Yadav B.Sc. (H) Botany II Year
2	Dr. Anupama Shukla and Dr. Manoj K Singh	Isolation, identification and characterisation of fungal isolates for their lignocellulolytic potential	Manohar Bisht, Shubhangini B.Sc. (H) Botany III Year Bhaskar Jyoti, Yash Gupta, Vivek Das B.Sc. (H) Botany II Year

Chemistry

S. No.	Mentors	Title of Project	Students
1	Application of magnetic chitin composites for the removal of toxic metals and organic dyes from industrial effluents	Dr. Sunita Hooda, Dr. Geetu Gambhir (Department of Chemistry) Dr. Sarita Kumar (Zoology)	Ravina Yadav, Heena Malik, Aniket, Mariyam, Monika, Akarsh Pandey Tanya Sharma, Senjuti Sengupta, Partho Proteem Das, Akshit Chauhan

Electronics

S.No.	Mentors	Title of Project	Students
1	Dr. Ravneet Kaur (Electronics) Dr. Udaibir Singh (Electronics) Dr. Anita Narang (Botony) Ms. Gauri Ghai (Electronics)	Plant electro stimulation and data acquisition	Rachit Agrawal, Sumit Vashista B.Sc. (H) Electronics III Year Rohit Saini B.Sc. (H) Electronics II Year Devender Soni, Gagan B.Sc. (H) Electronics I Year Pooja, Nishika, Shivangi Charvee, Anjali B.Sc. (H) Botany II Year
2	Dr. Ravneet Kaur (Electronics) Ms. Gauri Ghai (Electronics)	Assistive Gadgets for Visually Impaired Students a) Light to Sound Converter / Optocoupler b) Color Detector	Abhishek Raiwani, Adarsh Maurya B.Sc. (H) Electronics III Year
3	Dr. Ravneet Kaur (Electronics) Ms. Gauri Ghai (Electronics)	Mine Detection Drone	Chiradeep Das, Ritesh Raj B.Sc. (H) Electronics II Year
4	Dr. Amit Garg (Electronics)	Development of nanostructured thin films	10 Students (5 from B.Sc. (H) Electronics and 5 from B.Sc. (H) Physics)

S.No.	Mentors	Title of Project	Students
5	Dr. Amit Garg (Electronics)	Paradigm shift in material science- 2D materials: familiarity, synthesis and application	5 Students B.Sc. (H) Electronics
6	Dr. Ravneet Kaur (Electronics) Dr. Monika Bhattacharya (Electronics)	Smart Dustbin (Sensobin)	Rahul Chawla, Aditya Raj Singh, Amit Ran B.Sc. (H) Electronics II Year

Physics

S.No.	Mentors	Title of Project	Students
1.	Arijit Chowdhuri (Physics)	Designing a working PROSTHETIC LEG using advanced Arduino® applications	Adarsh Prasad B.Sc. Physical Science (Electronics) – V Sem
2.	Arijit Chowdhuri (Physics) V. Bhasker Raj (Physics) and Charu Khosla Gupta (Botany)	Using optical technique of surface plasmon resonance (SPR) for detection	Chaitanya Raj, Yogesh Shukla and Anshuman Tripathi B.Sc. (H) Physics – V Sem.
3.	Arijit Chowdhuri (Physics) and Charu Khosla Gupta (Botany)	Environmental Monitoring	Manohar Singh Bisht and Medha Jha B.Sc. (H) Botany – V Sem.
4.	Arijit Chowdhuri (Physics), and V. Bhasker Raj (Physics)	Quartz crystal microbalance and environmental science	Akash Gupta and Siddharth Das B.Sc. (H) Physics – V Sem. B.Sc. Physical Science (Electronics) – V Sem.

S.No.	Mentors	Title of Project	Students
5.	Ravi Toteja (Zoology), Seema Makhija (Zoology) and Arijit Chowdhuri (Physics)	Effect of Heavy Metals and Ethidium Bromide on DNA.	Senjuti Sengupta B.Sc. (H) Zoology – III Sem.
6.	Arijit Chowdhuri (Physics), and V. Bhasker Raj (Physics)	Micro-controller for Environmental applications	Sushil Kumar Singh B.Sc. (H) Physics – V Semester
7.	Dr. Arijit Chowdhuri (Physics) and Dr. Sandeep Kumar Goel (Commerce)	Market research on commercial Gas sensors and Electronic Nose in India and abroad	Shubham and Chirag Agarwal B. Com. (H) – V Sem.

Zoology

S.No.	Mentors	Title of Project	Students
1.	Sarita Kumar	Studies on the alteration in the oviposition potential and fertility of insects exposed to various insecticides	Sakshi Saraswat Ayushi Ratauri Sunil Pushpanjali Das Shilpi Singh Kajal Goyal B.Sc. (H) Zoology – IV Sem
2.	Seema Makhija, Ravi Toteja (Zoology) and Pooja Bhagat (Chemistry)	Micro biological analysis of leach ate collected from Okhla dumping site, Delhi	Anmol Deepika Pranjal Sharma B.Sc (H) Zoology – IV Sem

S.No.	Mentors	Title of Project	Students
3.	Dr. Sweety Shrimali Dr. Cherita, Dr. Seema Makhija and Dr. Ravi Toteja	Analysis of water quality for Aquaculture: Dissolved oxygen, ammonia, nitrite, nitrate, pH, conductivity, turbidity, etc.	Sadaf Priyanka Yadav Sumran Radhika Mohit Singh Shyam Manohar B.Sc.Life Science IV Sem

7.5. MINI SYMPOSIUM ON INTERNATIONAL WOMEN'S DAY

Coordinator: Dr. Seema Makhija

This Year College organized a "Mini Symposium on International Women's Day" on March 8, 2019 in Collaboration with CSIR for raising awareness and highlighting women's achievements. N. Kalai Selvi, Director CSIR-Central Electrochemical Research Institute was available on line and interacted with students about Green Energy for Clean India. Dr. Rina Singh, Scientist CSIR-Central Road Research Institute enlightened the gathering about Nanotechnology for Green Environment. Dr. Sheetal Gangdotra, Scientist CSIR-IGIB delivered a talk on Mycobacterium: Learning from the Best. Dr. Pranalee Thorat, Scientist CSIR-NPL very interestingly explained about the history of units of time and frequency.

7.6. PARTICIPATION IN IISF (INDIAN INTERNATIONAL SCIENCE FESTIVAL), 2018 @ LUCKNOW

The Indian International Science Festival which was organised by the Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indra Gandhi Pratishthan, Lucknow; held from October 5-8, 2018. A plethora of scientists, students, artists, experts in different fields and the general public from across the country and abroad participated in this festival. Through this festival, the largest of its kind in the country and in this region, we expect that the message of excitement of science and scientific temper will be spread to the students and will be inspiring the youth. Students of B.Sc. (H) Biomedical Science and B.Sc. (H) Zoology attended the IISF 2018.

8. INTERNAL COMPLAINTS COMMITTEE (ICC)

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

1. Dr. Manisha Jain, Associate Professor (Chemistry Department) – Presiding Officer
2. Dr. Sanjeeta Rani, Associate Professor (Physics Department)
3. Dr. Roopesh Tehri, Associate Professor (Mathematics Department)
4. Professor Vibha Maurya (External Member)
5. Ms Kanika Chaddha, Museum Curator (Botany Department)
6. Mr Rajesh, Laboratory Assistant (Chemistry Department)
7. Abhijeet Nayek, B.Sc. (H) BMS II Year (Students' representative)
8. Rhythm Kaushal, B.Sc. (H) BMS II Year (Students' representative)
9. Priya Kaushal B.Com. (H) III Year (Students' representative)

Status Report of ICC as in March 2019

S.No.	Particulars	Number
1.	No. of Complaints of sexual harassment received in the year	NIL
2.	Number of complaints disposed of during the year	NIL
3.	Number of cases pending for more than 90 days	NA
4.	Number of workshops on awareness programmes against sexual harassment conducted during the year	06
5.	*Workshop cum interactive session on sexual harassment and women's issues	02
6.	Awareness programme on safety and gender equality	03
7.	Methods adopted in Awareness programmes	Talk by eminent persons on women safety and hygiene, self-defense training programme for girl students in coordination with Delhi Police, Poster making competitions on women issues.

*The details of workshops and awareness programme are enlisted under report of Sashakt (Section 6.2.5)

9. ADD-ON COURSES

9.1. EFFECTIVE COMMUNICATION AND PERSONALITY DEVELOPMENT THROUGH THEATRE (ECPDT)

Convenor: Dr. Neelgagan Singh

Acharya Narendra Dev College conducted the tenth batch of Add-on course on “Effective Communication and Personality Development through Theatre”. The course started in the month of August, came to an end on October 23, 2018 with brilliant and enthusiastic performances by students of the course. This year the course had 35 students as participants and several eminent theatre personalities as Resource Persons.

The course is inspired by, and seeks to implement UNICEF and WHO’s internationally recognized vision of life skills based education. The course seeks to hone in students skills such as effective communication, dynamic leadership through problem solving, critical thinking and decision-making, ability to think creatively and act confidently through acting, improvisations, performances and scripting, teamwork and interpersonal relationship skills focusing on relationships with the self, friends and family, and society, and self-management and self-awareness building skills through effective conflict management, negotiations and the ability to cope with stress and manage time effectively.

The culmination function of ECPDT course was organized in the college on October 23, 2018 and was attended by students, their parents, and teachers. Dr. Rajendra Gupta (Independent Researcher, Associate Professor (Retd.) Department of Botany, University of Delhi) was the Chief Guest and Dr. Chitra Gupta was the Guest of Honor for the evening. Rejuvenating games and recreational activities were planned for all participants and were enjoyed by one and all.

An exhibition was organized in which students showcased their creative and imaginative skills. It had activities like associating one's name with a new product and making creative advertisements for marketing of the imaginative product; description of one's self in a few words; sharpening of one's imagination etc.

Students presented their acting and theatre skills. They enacted situations given to them on-the-spot by the audience. A group report was presented by all students of the course in which they gave description of the transformation they have experienced in

themselves after joining the course. Students were awarded certificates for successful completion of the course.

9.2. SKILL DEVELOPMENT – JOB ORIENTED COURSE: QUALITY CONTROL (QC) CHEMIST

Coordinator: Dr. Seema Gupta (Chemistry)

The College started the job oriented course ‘Quality Control (QC) Chemist’ in 2017. This program is aimed at training candidates for the job of a Quality Control (QC) Chemist in the Life Sciences Sector/Industry. A Quality Control Chemist is responsible for conducting qualitative and quantitative analysis to ensure specified quality of the manufactured products. Eleven students from B.Sc. (H) Chemistry, B.Sc. (H) Biomedical Science and B.Sc. Life Science had enrolled in the first batch and all have been successfully awarded the certificate from NSDC. Thirteen students have registered in 2018-19 batch of the course.

10. COLLEGE DEVELOPMENT

10.1. DIGITAL INITIATIVES

Acharya Narendra Dev College continues to support corporate mobile connectivity to the College faculty for the TABLETS to keep up the quality of the teaching-learning process. These tablets were given to facilitate online marking of attendance, uploading of internal assessment assignments, upload and access to e-content, timetable, use of Learning Management System for conducting online examination, result analysis, SMS and meeting notices, online service request etc.

The College continues with the use of Enterprise Resource Planning (ERP) to offer services to stakeholders in digital mode. The College is already offering various services in digital mode. The various services/initiatives offered are:

1. Online fee payment services: Students have been facilitated with online fee payment like student fee, fine, examination fee, workshop registration fee etc. through ERP. All fee and fines are paid online by students through the payment gateway integrated to ERP. This facility has also been extended to ex-students as well as foreign language students.
2. College time-table, online student attendance as well as internal assessment is continued to be taken on ERP. Semester attendance as well as internal assessment is available on students' dashboards.
3. Examination Forms for all the courses are filled by students online.
4. Student's RFID enabled smart identity cards have been converted into pre-paid cards. Library fine can be paid online by all the students. Provisions have been made for payment by students for the services like Canteen, Photostat etc. through these cards.
5. Student's entry to the college is through RFID enabled smart identity cards.
6. Students continue to fill in their choices for various subjects under CBCS like Generic Electives (GE), Skill Enhancement Courses (SEC) and Discipline Specific Electives (DSE) online on ERP.
7. Issue and return of student laptops is maintained online.
8. Students' registration for placement cell is done online.
9. Library is RFID enabled with self issue and return of books by students.
10. All communications are sent to the students through SMS on their registered mobile numbers as well as through email.
11. The students apply for all the scholarships of the college using a single window application system.

12. E-content hosting and online assessment of the students is being done using Learning Management System to improve teaching-learning process.
13. Reports of various committees and societies of the college, Innovation projects, ELITE (College summer projects) etc. is available to all stakeholders on their community portal.
14. Questions papers of previous years' university examination are also available to students online.
15. Students' feedback on infrastructure and other facilities is collected using ERP and the reports are shared with the concerned committees for quality improvement.
16. Procurement has been made through online quotations, e-procurement and GeM.
17. All receipts and payments are being made by the college through e-transfer. Scholarships and award money is directly transferred to students' account under Direct Benefit Transfer (DBT).
18. Prepaid Suvidha cards are used for imprest/advance. These cards can be accessed online through the bank portal.
19. Payment by students for the services like Canteen, Photostat etc. to the respective vendors has been activated through e-wallet like Paytm.
20. All the computational facility in the college is having open source operating system UBUNTU along with Open Office.
21. College campus is fully Wi-Fi enabled with 100 MBPS internet connectivity through OFC.
22. Students have been provided with individual laptop facility.
23. Subscription to infibnet facility for online access of e-books and journals from home is provided to students and staff.
24. College website is based on Drupal, an open source content management system.
25. College has been conducting regular workshops on FOSS and OER since 2007.

10.2. MEASURES TAKEN FOR REJUVENATION OF RESEARCH AND INNOVATION

The college has implemented the decision of the Governing Body by investing Rs. 2 crores from the College Development Fund and use the interest earned to promote research and innovation in the College. The approved guidelines are in place for the use of funds to meet the following objectives:

1. Fund allocated for Rejuvenation of infrastructure and research facilities for Ph.D. students
2. Fellowship for Ph.D. scholars who are not in receipt of any financial assistance from any funding agency during Ph.D. programme upto one year.

3. Grant for travel and boarding/lodging for the Ph.D. and undergraduate students.
4. Innovation/research projects for undergraduate students
5. Academic programme for research scholars
6. Select teachers to be honoured on the Annual Day for their contribution/ accomplishments in research activities in the College.
7. Sanction research grant in the form of 'Seed Grant' of Rs. One lakh to teachers appointed at substantive basis.
8. Select an undergraduate student for an award of Rs. 10,000 and a certificate to be given in appreciation of her/his research work.

Mr Shani Kumar, Ph.D. scholar in the college has been provided the financial assistance towards fellowship @Rs.8000/- p.m. for a period of one year to complete and submit his Ph.D. thesis.

10.3. RESEARCH CONTINGENCY GRANT

The College continues to support the following research and innovation laboratories through a research contingency grant amounting to a maximum of Rs. 15,000/- (per annum):

- i. Material Science Laboratory
- ii. Polymer Research Laboratory
- iii. Environmental Monitoring and Assessment Laboratory
- iv. Sensing Materials & Devices Laboratory
- v. Th!nk Laboratory
- vi. CUBE Laboratory
- vii. OPEN Laboratory
- viii. Ciliate Biology Laboratory
- ix. Anti-mycobacterial Drug Discovery Laboratory
- x. Chemical Biology Laboratory
- xi. Insect Vector & Pests Laboratory
- xii. Microbial Technology Laboratory
- xiii. Chandra Computational Laboratory
- xiv. Mathematics Research Centre Laboratory
- xv. Inorganic Chemistry Laboratory

10.4. DEVELOPMENT ACTIVITIES UNDERTAKEN IN 2018-19:

In 2018-2019, the college received following grants for development activities from Govt. of National Capital Territory of Delhi (GNCTD):

S.No.	Activity	Amount (INR)
1	Annual whitewash/painting & other repairs	26,31,200/-
2	Rainwater harvesting facility	15,25,200/-
3	Replacement of corridor and compound lights by LED lights	8,28,378/-

10.5. FINANCIAL GRANTS RECEIVED

The college received following grants from Directorate of Higher Education, GNCTD in 2018-2019:

S.No.	Scheme	Amount (INR)
1	GIA Salary	24,47,00,000/-
2	GIA other than salary	65,00,000/-

10.6. MEDICAL CONSULTATION AND PSYCHOLOGIST/COUNSELLOR FACILITY

College has provided the services of a medical consultant and Psychologist/Counsellor in the college. Each of them visits the college twice a week. Students as well as staff members have been benefited by this facility.

II. CAREER COUNSELLING AND PLACEMENT CELL

Convenor: Dr. Neeti Misra, Placement officer: Mr Sanjay Vohra

S.No.	Company	Target students	Mode of Selection	Result
1	Concentrix (September 25, 2018)	All final year students	Pre-placement talk followed by interview	Students appeared: 40 Students selected: 37
2	LIBSYS Ltd. (October 4, 2018)	Final year students of B.Sc. (H) Electronics, B.Sc. (H) Computer Science, B.Sc. Physical Science (Computer Science) and B.Com (H)	Pre-placement talk followed by Aptitude and technical test. Interview at company office.	Students appeared: 87 Students selected: Business trainee - 4 Operational trainee - 3
3	Millenium Automation Systems Ltd (January 15, 2019)	Final year students	Pre-placement talk followed by written test.	Initial screening: 11 qualified 03 selected for final interview.
4	Convergys (January 23, 2019)	Final year students (for technical support associates and Customer service)	Pre-placement talk followed by written test.	Students appeared: 10
5	BONANZA (February 12, 2019)	Final year students of B.Com (H)	Interview	Students appeared: 18 14 students selected for further training as financial advisors.

ANNEXURE 1

RESEARCH PUBLICATIONS BY FACULTY, PEER REVIEWED JOURNALS

1. Abraham, J. S; Somasundaram, S; Maurya, S; **Makhija, S**; Gupta, R. & **Toteja, R.** (2019) Techniques and tools for species identification in ciliates: A review. *International Journal of Systematic and Evolutionary Microbiology* DOI 10.1099/ijsem.0.003176.
2. **Bajpai, U; Mehta, A. K**; Eniyan, K; Sinha, A; Ray, A; Viridi, S; Ahmad, S; Shah, A; Arora, D; Marwaha, D; Chauhan, G; Saraswat, P; Bathla, P; Singh R. (2018). Isolation and characterization of bacteriophages from India, with lytic activity against *Mycobacterium tuberculosis*. *Can J Microbiol.* 2018;64:1-9.
3. Chetna; Kumar, S; **Garg, A; Chowdhuri, A**; Jain, A; Kapoor, A. (2018). Structural and optical properties of electrochemically deposited ZnO nanorods by using graphene oxide and ITO as substrate material: A comparative study. *Mater. Res. Express* 5 095024 doi.org/10.1088/2053-1591/aad7a5.
4. Chugh, H., Sood, D., Chandra, I., Tomar, V., **Dhawan G.** & Chandra, R. (2018) "Role of gold and silver nanoparticles in cancer nano-medicine" *Artificial Cells, Nanomedicine, and Biotechnology* (Taylor and Francis Publishers, UK) DOI: 10.1080/21691401.2018.1449118.
5. Dagar, V.S. & **Kumar, S.** (2018) Eamectin Benzoate: Potential larvicide and antifeedant agent against cotton boll worm *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Journal of Applied and Natural Sciences*, 10(2): 564-571.
6. Eniyan, K; Dharavath, S; Vijayan, R; **Bajpai, U**; Gourinath S. (2018). Structure of UDP-N-acetylglucosamine-enolpyruvate reductase (MurB) from *Mycobacterium tuberculosis*. *Biochemica et Biophysica Acta (BBA)- Protein and Proteomics*, 1866 (3), 397-406.
7. **Gupta, C. K**; Singh, J. P; Chopra, P; **Raj, V. B; Chowdhuri, A.** (2018) Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India. *DU Journal of Undergraduate Research and Innovation*, Volume 3, Issue 2, pp 71-81
8. Khanna, L., **Khanna, P.** and Jain, S.C. (2018). A concise synthesis of 2-alkenyl-3-phenyl-4H-chromen-4-ones via novel C-C bond formation using sulfone as potential intermediate. *Ind. J. Chem.*, 57B, 945-954.
9. Kumar, **S; Garg, A; Chowdhuri, A.** (2018). Comparison of water purification properties of Graphene Oxide (GO) Membranes with tuned interlayer spacings. *Mater. Res. Express* 6 015604, doi.org/10.1088/2053-1591/aae416.

10. **Kumar, S.**, Sharma, A. & Warikoo, R. (2018) Potential of *Nardostachys jatamansi* extracts to manage Indian strain of *Aedes aegypti*: A novel approach for vector control. *Vector Biology Journal*, 3(1): 1:5. <https://dx.doi.org/10.4172/2473-4810.1000129>
11. Kumari, A; Abhijeet; Sharma, A; Baliyan, A. K; Kiran; & **Kaur, R.** (2018). Gesture Recognizing Smart System, *DU Journal of Undergraduate Research and Innovation* July Volume 3, Issue 2, pp 01-11.
12. Lal, S; **Hooda, S**; Kumar, A; Kumar, S; Singh, A; Singh, S; Chandra, R; Kumar, V; **Uberoi, V**; **Gambhir, G**; Drashya. (2018). Acrylonitrile copolymer based membrane sensor for selective detection of Pb²⁺ ions in aqueous medium. *International Journal of Advanced Educational Research*, 3 (2), 107-113.
13. Lal, S; Kumar, S; **Hooda, S.** and Kumar, P. (2018). A highly selective sensor Cu²⁺ and Fe³⁺ ions in aqueous medium: Spectroscopic, computational and cell imaging studies. *Journal of Photochemistry and photobiology: Chemistry*, 364, 811-818.
14. Lal, S; Kumar, V; Joshi, M. C; **Hooda, S.** (2018). Heterolyptic Metal Complexes of Curcumin and 2,2'-Bipyridine Ligands: Synthesis, Characterization, Molecular Modeling and Their Preliminary Antimicrobial Investigation. *Academia Romana, Revue Roumaine de Chimie*, 63 (4), 299-307.
15. Liu, M.; Zhang, X.; Huang, X.; **Dhawan, G.**; Evans, J.; Kaur, M.; Jasinski, J. P.; Zhang, W. (2019) "Recyclable Organocatalysts for One-pot Asymmetric Synthesis of Dihydrofuranone and TetrahydropyranoneSpirooxindoles" *Eur. J. Org. Chem*, 1, 150-155 (Wiley-VCH).
16. Liu, S.; Yosief, H. O.; Dai, L.; Huang, H.; **Dhawan, G.**; Zhang, X.; Muthengi, A. M.; Roberts, J.; Buckley, D.; Wu, L.; Bradner, J.; Qi, J.; Zhang, W. (2018) "Structure-guided Design and Development of Potent and Selective Dual Bromodomain 4 (BRD4)/Polo-like Kinase 1 (PLK1) Inhibitors" *Journal of Medicinal Chemistry* (American Chemical Society), 61, 7785-7795.
17. Mishra, M., Gupta, K.K., & **Kumar, S.** Diminished activity of midgut enzymes in *Helicoverpa armigera* Hübner (Lepidoptera; Noctuidae) larvae induced by dietary stem extracts of *Thevetia neriifolia*. *Journal of Lepidopterist's Society* (Accepted).
18. Mishra, M., Gupta, K.K., & **Kumar, S.** (2018). Growth regulatory and growth inhibitory effects of *Thevetia neriifolia* stem extracts on *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Archives of Phytopathology and Plant Protection*, DOI: 10.1080/03235408.2018.1521324
19. Muthengi, A.; Zhang, X.; **Dhawan, G.**; Zhang, W.; Corsini, F.; Zhang, W. (2018) "Sequential [3+2] cycloaddition and [5+n] annulation reactions for modular synthesis of dihydrobenzoxazines, tetrahydrobenzoxazepines and tetrahydrobenzoxazocines" *Green Chemistry* (RSC, London) 20, 3134-3139.

20. Panda, S.S., Girgis, A.S., Prakash, A., Khanna, L., **Khanna, P.**, Shalaby, E.M. Fawzy, N.G. and Jain, S.C. (2018). Protective effects of *Aporosa octandra* bark extract against D-galactose induced cognitive impairment and oxidative stress in mice. *Heliyon*, 4, e00951. doi: 10.1016/j.heliyon.2018.e00951.
21. Prasad, P; **Singh, N**; Das, B; Raisuddin, S; Dudeja, M; Rastogi, S. (2018). Cytokine-induced expression of nitric oxide synthases in Chlamydia trachomatis-infected spontaneous aborters. *Journal of Maternal-Fetal & Neonatal Medicine* DOI: 10.1080/14767058.2018.1465914.
22. Samal, R. R. & **Kumar, S.** (2018). Status of *Aedes aegypti* L. against different classes of insecticides in New Delhi, India to formulate mosquito control strategy in fields. *Open Parasitology Journal*, 6: 52-62. DOI: 10.2174/1874421401806010052
23. Shamsi, T.N., Parveen, R., Ahmad, A., Samal, R.R., **Kumar, S.** & Fatima, S. (2018) Inhibition of gut proteases and development of dengue vector, *Aedes aegypti* by *Allium sativum* protease inhibitor. *Acta Ecologica Sinica*, 38(5); 325-328. <https://doi.org/10.1016/j.chnaes.2018.01.002>.
24. Sharma, A., **Kumar, S.**, & Tripathi, P. (2018). Effects of *Achyranthes aspera* extracts on the survival and midgut histo-architecture of *Aedes aegypti* L. early IV instars. *Open Parasitology Journal*, 6: 41-51. DOI: 10.2174/1874421401806010041
25. Sharma, S. P. & **Hooda, S.** (2018). An Analysis on Recent Technological Developments in Green Chemistry: Biocatalytic Processes. *Journal of Advances and Scholarly Researches in Allied Education* 15(11), 262-275.
26. Somasundaram, S; Abraham, J. S; Maurya, S; **Makhija, S**; Gupta, R. & **Toteja, R.** (2018) Cellular and molecular basis of heavy metal induced stress in ciliates. *Current Science*, 114, 1858–1865.
27. Saxena, R; **Kaur, S**; Bhatnagar, V. (2018). Social centrality using network hierarchy and community structure. *Data Mining and Knowledge Discovery*, 32(5): 1421-1443.

GENBANK SUBMISSION

1. Abraham, J.S., Somaundaram, S., Maurya, S., **Makhija, S.**, **Toteja, R.** and Gupta, R. (2018) *Notohymena australis* small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence. **Acc. No. MG827399**
2. Abraham, J.S., Somasundaram, S., Maurya, S., Gupta, R., **Makhija, S.** and **Toteja, R.** (2018). *Paraurostyla coronata* strain SL6 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1 and 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence. **Acc. No. MG827375**

3. Abraham, J.S., Somasundaram, S., Maurya, S., Gupta, R., **Toteja, R.** and **Makhija, S.** (2018) *Euplotes* sp. strain SLS1 small subunit ribosomal RNA gene, partial sequence. **Acc. No. MG827339**
4. Abraham, J.S., Somasundaram, S., Maurya, S., Gupta, R., **Makhija, S.** and Toteja, R. (2018) *Colpoda* sp. strain ANDCS1 small subunit ribosomal RNA gene, partial sequence. **Acc. No. MG827338**
5. Gupta, R., Abraham, J.S., Somasundaram, S., Rizvi, S., Bhayana, T., Kajal, K., Dadhich, P., Singh, M., Thakur, S., Yadav, A., Maurya, S., **Makhija, S.** and **Toteja, R.** (2018). *Blepharisma* sp. small subunit ribosomal RNA gene, partial sequence. **Acc. No. MG832820**
6. Shukla, R.K., **Kumar, S.** and Tripathi, P. (2018) *Pseudomonas aeruginosa* strain S4-B4 6723-1 16S ribosomal RNA gene, partial sequence. **Accession No. MK007294**
7. Somasundaram, S., Abraham, J.S., Maurya, S., **Toteja, R., Makhija, S.** and Gupta, R. (2018) *Tetmemena* sp. Y1 superoxide dismutase gene, partial sequence. **Acc. No. MG859289**

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

1. Aggarwal G., Chauhan P., Kumar Y., Lakhani D., Gautam H.K., Gupta S., Dhawan U. and **Dhawan G.*** (2019). Synthesis of silver nanoparticles using *Terminalia bellerica*: Physicochemical characterization and their antibiofilm evaluation. 6th World Congress on Nanomedical Sciences (ISNSKON 2018) from January 7-9, 2019 at Vigyan Bhawan, New Delhi.
2. Drashya; Lal, S; **Hooda, S.** (2018). Magnetic Graphene Oxide for Adsorption of Organic Dyes from Aqueous Solution. AIP Conference Proceedings **1953**, 030282 Doi: 10.1063/1.5032617
3. Kumar, S; **Garg, A. and Chowdhuri, A.** (2018). Effect of Concentration Variation in Graphene Oxide (GO) Membranes For Water Flux Optimization. AIP Conference Proceedings 1953, 030280 doi: 10.1063/1.5032615 Published by AIP Publishing. ISBN: 978-0-7354-1648-2
4. Panmei, K. & **Kumar, S. (2019)**. Growth Inhibition and Growth Regulatory effects of Lufenuron on *Aedes aegypti* L.: A potential Mosquito Control Agent. 14th International Conference on 'Vector and Vector Borne Diseases [ICOV-14]', Bhubaneswar, Orissa, January 9-11, 2019
5. Samal, R. R. & **Kumar, S. (2019)**. Variation in the Insecticide-Resistance Spectrum of *Aedes aegypti* L. after Selection with Acetamiprid. 14th International Conference on 'Vector and Vector Borne Diseases [ICOV-14]', Bhubaneswar, Orissa, January 9-11, 2019

International

1. Abraham, J. S; Gupta, R; Somasundaram, S; Maurya, S; Jangra, S; Kumar, A; **Toteja, R.** and **Makhija, S.** (2018) Biodiversity of soil ciliates from in and around Delhi, India. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
2. Abraham, J. S; Somasundaram, S; Maurya, S; **Toteja, R;** **Makhija, S.** and Gupta, R. (2018) Phylogenetic study of three spirotrich ciliates using modern biological techniques: an integrated approach. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
3. **Bajpai, U.** (2018) Functional Characterization of Lysin A & B from New Delhi Mycobacteriophages, virulent against *Mycobacterium tuberculosis*. European Molecular Biology laboratory (EMBL) workshop on Viruses of Microbes, at Wroclaw, Poland.
4. **Bajpai, U.** (2019) Anti-mycobacterial drug discovery at 3rd Global Open Source Pharma Conference: *Science, License, Community*, Paris
5. **Chowdhuri, A;** Chopra, P; J. P; Chopra, Gupta, A; **Gupta, C. K;** (2018) Potential health risks arising from Ambient Air Pollution (AAP) due to variation in PM₁₀, SO_x, NO_x and CO concentration levels in New Delhi, Bengaluru (India) and Ljubljana (Slovenia): A spatio-temporal study. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
6. **Dhawan, G.** (2019) Synthesis of silver nanoparticles using *Terminalia bellerica*: Physicochemical characterization and their antibiofilm evaluation at 6th World Congress on Nanomedical Sciences (ISNSKON 2018) Vigyan Bhawan, New Delhi
7. Drashya, Lal, S; **Hooda, S.** (2018) Fast and Highly Considerable Adsorption of Methylene dye on De-corated Magnetic Graphene Oxide Composite in Indo – US Colloquium on Recent Development in Interdisciplinary Research, Jointly Organized by Department of Chemistry, Hansraj College, University of Delhi, Delhi, India & Loyola University Stritch School of Medicine, Maywood, IL USA.
8. **Gupta, C. K;** Singh, J. P; Chopra, P; **Chowdhuri, A.** (2018) Preliminary studies on estimating the composition and concentration levels of dangerous metals in fine dust at Dariba Kalan, Delhi: human health concerns. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
9. Gupta, R; Abraham, J. S; Somasundaram, S; Maurya, S; Naqvi, I; **Toteja, R.** and **Makhija, S.** (2018) Faunistic study on the freshwater ciliates of Delhi, India.

International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.

10. Gupta, R; Abraham, J. S; Somasundaram, S; Sheeba; Bhayana, T; Kajal, K; Yadav, A; Kumari, B; **Makhija, S.** and **Toteja, R.** (2018) Molecular phylogeny of *Blepharisma* sp. based on sequence analysis of 18S rDNA and ITS gene. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
11. Hervin, V; Hoarau, C; Warsycki, D; Bojarski, A; **Bajpai, U**; Roy, V; Agrofoglio, L. (2018) Synthèse d' inhibiteurs de Mur-Ligases à visée anti-bactérienne. French symposium at Biotechnocentre, Seillac, France.
12. Lal, S; Singh, S; Drashya; and **Hooda, S.** (2018) Curcumin Based Fluorescent Chemosensor for Selective Detection of Cu²⁺ and Hg²⁺ ions in Aqueous Medium in Indo – US Colloquium on Recent Development in Interdisciplinary Research, Jointly Organized by Department of Chemistry, Hansraj College, University of Delhi, Delhi, India & Loyola University Stritch School of Medicine, Maywood, IL USA.
13. Lal, S; **Hooda, S.** and Singh, A. (2018) Biocompatible Fluorescent Schiff base chemosensor for selective detection of Cu²⁺, Hg²⁺ Ions in aqueous medium, in 6th World Congress on Nano medical Sciences ISNSCON 2018, Multidisciplinary Strategies: Special reference to Chemistry – Biology Interface, Vigyan Bhawan, New Delhi, Organized by Department of Chemistry, University of Delhi.
14. **Makhija, S**; Maurya, S; Abraham, J. S; Somasundaram, S; **Toteja, R.** and Gupta, R. (2018) Molecular characterization of heat-shock protein in ciliates. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
15. **Makhija, S**; **Toteja, R**; Somasundaram, S; Abraham, J. S; Maurya, S. and Gupta, R. (2018) An overview of progression of ciliate biology research at University of Delhi. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
16. Maurya, S; Abraham, J. S; Somasundaram, S; **Makhija, S**; Gupta, R. and **Toteja, R.** (2018) Role of Ciliates to monitor the efficacy of Sewage Treatment Plant: A Review. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
17. Rani, J; Eniyan, K; Ramachandran, S; and **Bajpai, U.** (2019) Identification of inhibitors of *Mycobacterium tuberculosis* MurE enzyme by screening of a library of anti-tubercular compounds at the Second International Conference on Antimicrobial Resistance, Novel Drug Discovery and Development: Challenges and Opportunities, organized by SRM University Delhi-NCR, Sonapat, Haryana in

association with Royal Society of Tropical Medicine and Hygiene, IIT Delhi Campus, RREC, Sonapat, Haryana.

18. Rani, J; Ramachandran, S. and **Bajpai, U.** (2019) Repurposing existing drugs for treating drug resistant tuberculosis with MtbMurB & MurE as the target enzymes at the Pre-Conference Workshop & International Conference on Multi-scale Simulation & Mathematical Modelling of Biological Complex Systems, Jawaharlal Nehru University
19. Sahu, H. V; Garg, V; Khushboo; Somasundaram, S; Abraham, J. S; Maurya, S; **Makhija, S; Toteja, R.** and Gupta, R. (2018) A study on the process of regeneration in ciliate, *Tetmemena* sp. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
20. Somasundaram, S; Abraham, J. S; Maurya, S; Kadian, H; Jaiswal, J; **Makhija, S.** and **Toteja, R.** (2018) Ultraviolet B (UVB) induced changes in eukaryotic microbe, ciliates. International Symposium on Ciliate Biology (ISCB), University of Delhi from 4th-6th April (2018) at India Habitat Centre, New Delhi, Delhi, India.
21. Somasundaram, S; Abraham, J. S; Maurya, S; **Toteja, R;** Gupta, R. and **Makhija, S.** (2018) Molecular characterization of heat-shock protein in ciliates. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India. (Poster Presentation)
22. Somasundara, S; Abraham, J. S; Maurya, S; **Toteja, R;** **Makhija, S.** and Gupta, R. (2018) Genetic and molecular mechanisms to cope oxidative stress in freshwater ciliates. The 5th joint meeting of the Phycological Society of America and International Society of Protistologists (PSA/ ISOP), at University of British Columbia, Vancouver, British Columbia, Canada.
23. **Toteja, R; Makhija, S;** Somasundaram, S; Abraham, J. S; Maurya S. and Gupta, R. (2018) Transcriptomic analysis of heavy metal induced changes in gene expression in freshwater ciliates. International Symposium on Ciliate Biology (ISCB), University of Delhi at India Habitat Centre, New Delhi, Delhi, India.
24. Tripathi, A; Shukla, Y; Gupta, A; Kumar, S; **Garg, A. & Chowdhuri, A.** (2018) Room temperature detection of H₂ and H₂S gases by Graphene oxide (GO) films using Surface Plasmon Resonance (SPR) technique, International Conference on Advanced Materials Energy & Environmental Sustainability (ICAMEES-2018), University of Petroleum & Energy Studies, Dehradun, Uttarakhand, INDIA.

National:

1. **Agarwal S** (2018) Numeral System, at Mini Symposium in Mathematics, organized by Department of Mathematics of Deen Dayal Upadhyaya College, February 22-23, 2019.

2. Arora, R; Kandasamy, E. and **Bajpai, U.** (2018) LysinB endolysin from mycobacteriophages as novel antimycobacterial agent. International Symposium on Infectious diseases, at Regional Centre for Biotechnology and Jamia hamdard, Delhi-NCR.
3. **Chowdhuri, A;** Saraswat, S; **Gupta, C. K.** (2018) Gauging the Comprehension about Environmental Awareness, Conservation and Sustainability Amongst Primary, Secondary and Undergraduate Students for Precisely Defining Exposure–Response Relationships of Pollution on Health 4th National Symposium on Environment: Green Technology for Environmental Sustainability, held at Deshbandhu College, University of Delhi.
4. Das, S; Singh, J. P; Gupta, A; Kumar, S; **Garg, A.** and **Chowdhuri, A.** (2018) Investigating carbon dioxide gas sensing characteristics of Graphene oxide (GO) films using a Quartz Crystal Microbalance (QCM) based device, National Seminar on New Trends in Nanotechnology and Applications (NTNA-2018), at Atma Ram Sanatan Dharm College, University of Delhi.
5. **Gupta, C. K;** Jha, M; Bisht, M. S; **Chowdhuri, A.** (2018) Study of Particulate Matter Pollution in Different Modes of Public Transport in New Delhi, India. 4th National Symposium on Environment: Green Technology for Environmental Sustainability, held at Deshbandhu College, University of Delhi.
6. **Gupta, C. K;** Raj, C; Sengupta, S; **Toteja, R; Makhija, S. and Chowdhuri, A.** (2018) Investigating the effect of Cadmium and ethidium bromide on DNA using Surface Plasmon Resonance (SPR) technique. National Seminar on New Trends in Nanotechnology and Applications (NTNA-2018), at Atma Ram Sanatan Dharam College, University of Delhi pp 17. (This work received Best Paper Award)
7. Kandasamy, E; Rani, J; Ramachandran, S; Khan, I. A; and **Bajpai, U.** (2018) Screening of anti-tubercular compound library identifies Mur enzyme inhibitors of *Mycobacterium tuberculosis*. 59th Association of Microbiologists of India (AMI) conference, at University of Hyderabad.
8. **Rakshit, J. D.** (2018) Sharing Social Spaces: British Women Travellers in Search of the “Real India” at the National Conference on ‘A Cultural Perspective: Journey of Narratives and Narrativization of Journeys’ organized by the Department of English, Shyam Lal College, University of Delhi.
9. Tripathi, A; Shukla, Y; Kumar, S; **Garg, A.** and **Chowdhuri, A.** (2018) Investigating H₂ and H₂S gas mechanism of Graphene oxide (GO) films using Surface Plasmon Resonance, National Seminar on New Trends in Nanotechnology and Applications (NTNA-2018), at Atma Ram Sanatan Dharm College, University of Delhi.

ANNEXURE 11

Staff Council Committees 2018-2019

Admissions Committee	Workload and Time Table Committee	Examination Committee	Alumni Affairs Committee
<p>Convenors: Dr. Anju Agrawal Dr. Chandrakant Samal TIC, Biomedical Science</p> <p>Members: All Teachers-in-Charges</p> <p>Foreign Language: Dr. Geetika Kalra (Convenor) Dr. Sunita Hooda</p>	<p>Convenor: Dr. Sanjeeta Rani</p> <p>Co-Convenor: Dr. Preeti Marwaha</p>	<p>Convenor: Dr. Ravinder Kr. Sagar</p> <p>Members: Dr. Gagan Dhawan Dr. Sharanjit Kaur Ms. Anuradha Sarin Dr. Laxmi Narain Dr. Seema Makhija Dr. Charu K. Gupta Dr. Anita Narang (Even Semester 2017-18) Dr. Sunita Hooda (Even Semester 2017-18)</p> <p>Examination Committee (SOL) Dr. Pankaj Khanna Dr. Rajesh Chaudhary Dr. Abhishek K. Mehta Mr. Gurudatt Rao Dr. Neelgagan Singh Mr. Jitender Goel</p>	<p>Convenor: Dr. Anupama (Maths)</p> <p>Members: Dr. Rachna Joshi Dr. Charu Khosla Gupta Dr. Poonam A. Kant Dr. Udaibir Singh Dr. Rashmi Thukral Ms. Anu Praveen Ms. Sangeeta Relan Dr. Ambika Dr. Neeti Goel Ms. Shiva Saini Mr. Brijendra Yadav Dr. Aparna Sharma</p>

Sports Committee	Library Committee	College Development Committee	Debating Society (Tark)
Convenor: Dr. Charu Khosla Gupta Members: Dr. Dinesh Kr. Arya Ms. Anupama (Maths) Dr. Rachna Joshi Dr. Priti Goyal Dr. Sada Nand Prasad Mr. Ravinder Kr. Sagar Dr. C. K. Samal Mr. Gurudatt Rao Mr. Narayan Singh Dr. Neeti Goyal Dr. Rohtash Singh Dr. Kavita Mittal Dr. Yash Mangla Mr. Gurjinder Singh Dr. Vikram Sen Dr. Ranjit Kaur Dr. Sanjay Kumar (Phy) Dr. Siddhartha Dr. Deo Dutta Arya Ms. Sneh Sagar	Convenor: Dr. Sarita Kumar Members: Dr. Amit Garg (Bursar) Dr. Rashmi Sharma Dr. Ravneet Kaur Dr. Archna Pandey Dr. Meenu Mohil Dr. Poonam A. Kant Dr. Sharanjit Kaur Dr. Vikrant Kumar	Convenor: Dr. Roopesh Tehri Members: Dr. Vandana Uberoi Dr. Archna Pandey Dr. Sunita Narang Dr. Monisha Khanna Kapur SPICMACAY Dr. Shalu Mahajan	Convenor: Mr. Manoj Kr. Garg Members: Dr. Shalu Mahajan Dr. Sunita Jetly Dr. Manisha Verma Dr. Neelu Dheer Dr. Shallu Sachdeva Ms. Sadhna Gupta Dr. Joita Dhar Rakshit Ms. Gauri Ghai Dr. Rahul Dev

Fellowship Programs and Awards Committee	Proctorial Committee	Canteen Committee	Social Outreach Programs Committee (NSS)
<p>Convenor: Ms. Anuradha Sarin</p> <p>Members: Ms. Seema Gupta (Maths)</p> <p>Dr. Monisha Khanna Kapur Dr. Roopesh Tehri Mr. Gaurav Sharma Ms. Sangeeta Relan Dr. Kavita Mittal Dr. Sweety Shrimali Dr. Vikram Sen Mr. Pradeep Kr. Gupta</p>	<p>Convenor: Dr. M. S. Rajeswari (Proctor) Dr. Seema Gupta (Chem) (Deputy Proctor)</p> <p>Members: Dr. Monica Misra Mr. Pawan Kumar Dr. Dinesh Kr. Arya Dr. Rajesh Chaudhary Dr. Sandeep Goel Ms. Sadhna Gupta Dr. Aparna Sharma Mr. Narayan Singh Dr. Neelgagan Singh Dr. Abhishek Kr. Mehta Mr. Gurjinder Singh Mr. Jitender Goel Mr. Gurudatt Rao Dr. Namita Singh Dr. Rakesh Roshan Dr. Vineet Girdharwal Ms. Dinesh Kumar Mr. Kalu Ram Meena</p>	<p>Convenor: Dr. Sandeep Kr. Goel</p> <p>Members: Ms. Rupali Pabreja Dr. Sada Nand Prasad Dr. Anita Narang Dr. Udaibir Singh Dr. C. K. Samal Dr. Vikrant Kumar Mr. Dev Om Mr. Jitender Goel Mr. Yask Sain Mr. Brijendra Yadav Dr. Ambika Ms. Sneha Sagar</p>	<p>Convenor: Dr. Manisha Jain Co-Convenor: Dr. Pooja Bhagat</p> <p>Members: Dr. Rashmi Sharma Ms. Anu Praveen Dr. Gagan Dhawan Dr. Pankaj Khanna Dr. Rakesh Roshan Mr. Dinesh Kumar Mr. Abhaya Pratap Singh Dr. Abhijeet Mishra Dr. Sanjay Kumar (Phy) Dr. Abhishek Kumar Mr. Pradeep Kr. Gupta Dr. Shelja Tiwari Ms. Sapna Yadav</p>

Garden Committee	Academic Events Management Committee	Cultural Events Management Committee	Women Students Affairs Committee - Sashakt
Convenor: Dr. Vandana Uberoi Members: Dr. Shallu Sachdeva Dr. Neelu Dheer Dr. Manisha Verma Dr. Manoj Kr. Singh Dr. Sumit Sahni Dr. Aparna Sharma Ms. Hanisha Bhagat Dr. Shashi Shekhar (Phy)	Convenors: Dr. Vatsla Kohli Dr. Seema Makhija Members: Dr. Preeti Marwaha Dr. Abhishek Kr. Mehta Ms. Sapna Yadav Mr Dev Om Dr. Anita Kumari Ms. Gauri Ghai Dr. Pragati Malik Dr. Anita Thakur Mr Sanjay Kumar (Zoo) Mr Ankit Singh Ms. Nishu Singh Dr. Deo Datta Arya (Maths) Ms. Hemant Yadav (Zoo)	Ms. Seema Gupta (Maths) Dr. M. S. Rajeshwari Dr. Mamta Bhatia Dr. Manoj Kr. Singh Dr. Vineet Kr. Singh Dr. Namita Singh Ms. Priyanka Sharma Ms. Shiva Saini Dr. Pragati Malik Dr. Anita Thakur Dr. Sumit Sahni Mr Sanjay Kumar (Zoo) Ms. Hanisha Bhagat Dr. Sanjay Kumar (Maths) Ms. Hemant Yadav (Zoo) Dr. Shelja Tiwari Ms. Sneh Sagar	Convenor: Dr. Geetika Kalra Members: Dr. Sarita Agarwal Dr. Anju Agrawal Dr. Anita Narang Dr. Sunita Hooda Dr. Monica Misra Ms. Gauri Ghai Dr. Anita Kumari Dr. Ranjit Kaur

Committee for coordination with the Equal Opportunity Cell, University of Delhi	Editorial I – Magazine + Annual Report	I.T. Committee	Nodal Person for Students from the North East
Convenor: Dr. Vikrant Kumar Members: Dr. Rupali Pabreja Dr. Manisha Jain Dr. Sarita Agarwal Ms Gunjan Rani	Convenors: Dr. Abhishek Kumar Mehta Dr. Joita Dhar Rakshit Members: Dr. Aparna Sharma Dr. Neelakshi N. K. Borah Ms. Nishu Singh Ms. Gunjan Rani Dr. Satender Singh Dr. Monika Bhattacharya Mr. Abhay Pratap Singh Editorial II – Prospectus Convenor: Dr. Arijit Chowdhuri Dr. Sweety Shrimali Dr. Joita Dhar Rakshit Dr. Aparna Sharma Dr. Abhishek Kumar Mehta	Convenor: Mr. Pawan Kumar Members: Dr. Vibha Gaur Dr. Sunita Narang Dr. V. Bhasker Raj Ms. Priyanka Sharma Dr. Rohtash Singh Dr. Aparna Sharma Mr. Kalu Ram Meena	Dr. Subhash Kumar Nodal Person for Foreign Students Dr. Subhash Kumar

Placement Cell	Theatre Society (ECPDT + ATP)	Paritantra (Eco-Club)	Committee for Mentorship and Counselling
Convenor: Dr. Neeti Misra Members: Dr. Subhash Kumar Dr. Sumit Sahni	Convenor: Dr. Neelgagan Singh Members: Dr. V. Bhasker Raj Dr. Vineet Kr. Singh Dr. Vineet Girdharwal Dr. Monkia Bhattacharya Dr. Rahul Dev Ms. Nishu Singh Mr. Yask Sain Mr. Ankit Singh Dr. Neelakshi N. K. Borah Ms. Shiva Saini Dr. Sanjay Kumar (Maths) Dr. Abhishek Kumar Ms Sneh Sagar	Convenor: Dr. Seema Gupta (Chem) Members: Dr. Gagan Dhawan Dr. Charu K. Gupta Paritantra (Eco-Club) Convenor: Dr. Seema Gupta (Chem) Members: Dr. Gagan Dhawan Dr. Charu K. Gupta Ms. Anuradha Sarin Mr. Gaurav Sharma Dr. Neeti Misra Dr. Priti Goyal Dr. Arijit Chowdhuri Dr. Vatsla Kohli Dr. Rashmi Thukral Dr. Satendra Singh Dr. Yash Mangla Dr. Neelakshi N. K. Borah Mr. Abhay Pratap Singh Dr. Shashi Shekhar (Phy) Dr. Siddhartha Dr. Abhijeet Mishra	Dr. Mamta Bhatia Dr. Meenu Mohil Dr. M. S. Rajeswari Dr. Sanjeeta Rani Dr. Sunita Jetly Dr. Vibha Gaur

Teacher Representative for Provident Fund Committee: **Dr. Sunita Hooda**



DISCLAIMER:

The committee has taken utmost care to compile Annual Report 2019. If there is any mistake or if anything is missed out inadvertently, it will be included in the next issue of the Annual Report. The feedback may be sent to annualreport2019@gmail.com.

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