



22nd Annual Day **March 14, 2019**

Principal's Report

The father of our nation, Mahatma Gandhi once said “By education, I mean an all-round drawing of the best in child and man in body, mind and spirit”. Bhaskaracharya College of Applied Sciences has been true to this philosophy since the genesis of the college in 1995. The college has completed 23 successful academic sessions and once again we have reached to the point where I present before you our College's Annual Report 2018-19.

At the outset, on behalf of Chairman, Governing body and Bhaskaracharya Family, I heartily welcome our **Chief Guest, Prof. Rajbir Solanki, Vice Chancellor of Chaudhary Ranbir Singh University, Jind, Haryana and our Guest of honour, Ms. Bhavna Gaur, MLA, Delhi Legislative Assembly.** We are also pleased to welcome our alumni, dignitaries and parents who have agreed to take their precious time out for this function.

The academic year of 2018-19 has rather been a busy and eventful year. Taking the opportunity of this platform, I am delighted and proud to share with you all the activities and the milestone achievements of our college in this academic session.

Our college is **NAAC** accredited with ‘**A**’ grade and is currently blooming with 16 departments. These departments have been successfully running 11 undergraduate courses and are ready to expand the horizon by starting 6 more undergraduate courses in the next academic session, i.e., **B.Sc. (H) Biochemistry, B.Sc. (H) Environmental Science, B.Sc. (H) Geology, B.Sc. (H) Mathematics, B.Sc. (H) Operational Research and B.A. (H) Psychology.**

I am proud to share with you all that four departments namely **Physics, Electronics, Instrumentation and Computer Science** of our college have been awarded with financial support from **Department of Biotechnology, Ministry of Science and Technology, Govt. of India under their Star College Scheme.** I congratulate Dr. N.S. Abbas and his team for achieving this milestone. This will truly help us improve and achieve our endeavour of providing the best possible exposure and practical knowledge to our students. This star college scheme is in addition to the ongoing star college status.

Infrastructure is the backbone of any educational institute that creates the ambience for students wherein they can imbibe knowledge in the best possible form. In agreement, our college has state-of-art laboratories, library, conference room, audio-video room, computer centre, a well-maintained playground, sports room, a spacious parking facility and an efficiently functioning canteen. Further, the college campus is WiFi-enabled and under the continuous surveillance of CCTV cameras. This current academic year, our focus has been to bring about eco-friendly and sustainable infrastructural changes such as installation of solar panel street lights, water harvesting system and compost pits. We have already taken up the



venture of equipping our laboratories with PNG pipelines. It is noteworthy to mention that Open Gym facility work has been started and we sincerely believe that this facility will encourage our students to have a healthy body along with a healthy mind.

In addition to eco-friendly infrastructural changes, our college is working hard to reduce the usage of papers by adopting completely digitized academic and administrative processes such as digital modules for mentorship reports, attendance sheets, generic elective option selection and allotment, etc.

“A good teacher can inspire hope, ignite the imagination, and instil a love of learning”. The quote by Brad Henry is unequivocally true for the faculty of our college. Our faculty members are distinguished scholars of their respective fields and highly dedicated teachers with a flair and passion for the profession of teaching. Along with nurturing the inquisitive minds of the students, they are also indulging themselves in several activities for enhancing their knowledge and skills. Our faculties have been actively involved in various research projects which are being graciously funded by different funding agencies. They are actively participating in conferences, seminars, faculty development programs and workshops. In this academic year, our faculty members have published several articles in journals and proceedings of National and International repute. Further, I am glad to inform that the Directorate of Higher Education, Government of NCT, Delhi has awarded **The Best Teacher Award** for the year 2016-17 to **Dr. Avneesh Mittal**, Department of Electronics.

Students of our college are provided a holistic environment that not only nurtures their academic mind but also builds their character. Time and again, our students have proven their calibre in academics and extracurricular activities at University and National levels, and have also actively participated in reforming the society and helping others in need. Considering their achievements, the present academic year's **Best Student Award** goes to **Ms. Rachna Sharma** from Department of Food Technology (female category) and **Mr. Sagar Bansal** from Department of Computer Science (male category). In order to acknowledge the success of our alumni students, it is our tradition to present a **Distinguished Alumni Award** every year and this year the award goes to **Mr. Amit Verma** (Department of Electronics, batch 2000-03) for his excellent work in entrepreneurial venture. In line with the tradition, I wish to announce the memorial awards of our college. This year's **Deepika Wanganoo Memorial Award** has been awarded to **Mr. Neeraj Kumar Yadav** from Department of Electronics and **Saurabh Grover Memorial Award** has been given to **Mr. Shubham Durgapal** from Department of Physics.

Also, it is worth mentioning that **Mr. Shakti Singh**, from Department of Physics has been awarded the prestigious Inspire Scholarship by DBT, Government of India. One of the proudest moment for our college this year was when **Mr. Nishant Sindhu** from Department of Electronics won the Gold Medal in 62nd National Championship Competitions in 50 meter Pistol Junior Men (Team Event). Mr. Nishant also has to his credit another Gold medal and a Silver medal in championships of University and National level. The students and faculty of



our college believe that the best way to study science is via practical approach. This year, students of Department of Polymer Science have designed and fabricated a model of an aeroplane, which is presently displayed in the principal's block. The material used for constructing this model is identical as used for aerospace engineering.

The objective of our college is not only to impart knowledge but to also help and guide the students along the process. We take utmost care in making the college campus safe and providing a healthy atmosphere to our students. The Anti-ragging and Proctorial Committee is praise-worthy for maintaining absolute discipline in the college premises throughout the academic year. I also congratulate the Election committee of our college for smooth and successful conduct of **Bhaskaracharya Student Association/ DUSU Election 2018**. The Students Counselling Committee have been effectively executing the mentorship programme and the Student Advisory and PR committee has been conducting various activities to boost self-confidence among students. The Gender Sensitization Cell and North East Cell have also actively participated in inculcating positive thinking in students. The current academic year also witnessed the formulation of Women Development Cell (WDC) that since its genesis has passionately worked towards the betterment of our girl students with respect to enhancing their self-belief, educating them about safety protocols and training them for self-defence techniques. It is noteworthy that WDC successfully conducted the first ever **Women's Day Celebration** of our college on March 08, 2019 that comprised of several educational and fun-filled activities.

Students after graduation are often confused about the next step that they have to take or the job that they should choose as per their skill. As teachers, it is our duty to acquaint them with and prepare them for, the future scopes and options. The Career Counselling Cell and the Training and Placement Cell of our college have been diligently working throughout the academic year to fulfil this objective. I feel proud to mention that for the first time in University of Delhi, the Placement Cell of our college organized an intercollege **"Rozgar Mela"** in collaboration with National Skill Development Corporation on March 03, 2019 that provided a platform for interaction between undergraduate students and several reputed industries and companies.

"Good habits formed at youth make all the difference", as rightly said by Aristotle. We have been trying our best to teach our students the best lifestyle habits and the most positive thoughts. In this regard, the clubs and cells of our college such as Sports Committee, Anti-Smoking Cell, Bhaskaracharya Cell, Gandhian Study Centre, Vivekanand Vichar Manch and Yoga Club have organized several activities throughout the current academic year. Our college also offers the students a chance to enhance their extracurricular skills. The astronomy, dance, debate, dramatics, literary, modern and fine arts, music and photography clubs of our college have enthusiastically organized various competitions and events. The **Annual College Festival, Srijan-2019** had been a huge success only because of the immense hard work of the ECA committee and clubs. In addition, like every year, this year's **College**



Magazine, Resonance has been published that illustrates the excellent creative and literary mind of our students.

The activities of our college are not restricted to the betterment of only our students and faculty but also for our neighbourhood and society. Several outreach programs and activities have been organized by the committees and clubs of our college, such as National Service Scheme, Swachhta and Waste Management Committee, Eco-club ‘Pranahi’, to create awareness about cleanliness, environmental issues and safety of girls in our neighbourhood, to help the people of the adopted village Mangolpuri by providing gifts and literary items, and to improve the green belt in and around our college by large scale plantation of tree saplings.

The college is a living entity and we, the faculty, non-teaching staff and the students are the ones solely responsible for its health and growth. The milestones that we have achieved this year would not have been possible without the full support of each and every member of the BCAS family. Hence, I am extremely grateful to the Teacher-in-Charges of all the departments, Convenors/Co-convenors and Coordinators of all the committees, clubs and cells, and the Non-teaching staff of our college for their hard work and cooperation. Last but not the least; I am truly thankful to the Governing Body of our college for their endless support and guidance.

With this, I come to the end of our college’s annual report 2018-19. Since the semester examinations are right at the corner, I wish the very best to all my students and would like to mention a quote by Mark Twain:

“20 years from now you will be more disappointed by the things that you didn’t do than by the ones you did do. So throw off the bowlines. Sail away from the safe harbour. Catch the trade winds in your sails. Explore, Dream, Discover.”

Best Wishes!

Dr. Balaram Pani
Principal



Meritorious Students (Academic Year: 2017-18)

S.No.	Course	Position	First Year	Second Year	Third Year
1	B.Sc (Hons) Biomedical Science	I	Varnika Khattar	Aditi Kanojia	Suchita Reddy .E
			Muskaan Sharma		
		II	Ojal Saharan	Kriti Ahuja	Kanika Saxena
			Nilesh Kumar Kaundal	Bidisha Bhattacharya	Anannya Tuli
III	Samarth Dhole				
2	B.Sc (Hons) Botany	I	Yamini Singh	–	–
		II	Sakshi Rawat		
		III	Ritu Kshatriya		
3	B.Sc (Hons) Chemistry	I	Anirudh Kumar	–	–
		II	Vaibhav Vats		
		III	Samriddhi Vats		
4	B.Sc (Hons) Computer Science	I	Vishnu Kumar	Nikita Bansal	Samyak Ahuja
			Komal Yadav	Kanchan	Sahil Kaushik
		II		Siddhant Varma	
			Shubham Jain	Riya Suntwal	Sunidhi Sharma
III	Nikita Mogha				
5	B.Sc (Hons) Electronics	I	Kartik	Rahul Singh Shekhawat	Neeraj Kumar Yadav
			Nancy Tomar	Ritesh Kumar Mahto	Amit Kumar Singh
		II	Pankaj Rawat	Harshit	Abhishek Bhatia
				Govind Tripathi	
III					
6	B.Sc (Hons) Food Technology	I	Vinay Balodi	Rupal	Hephzibah Saji
		II	Bhumika Dhoundiyal	Rachna Sharma	Neha Singh Chauhan
		III	Sakshi Singh	Deeba Zarin	Sheetal Katiyar
7	B.Sc (Hons) Instrumentation	I	Tanushri	Gaurav Kumar	Komal Sharma
				Jyotirmayee Sahoo	
		II	Pratibha Mishra	Tupeshwar Kumar	Vivek Kumar
III	Shrish Pratap Singh	Jyoti Kaushik	Neha Kumari		
8	B.Sc (Hons) Microbiology	I	Tanushree Singh	Saumen Sain	Shivani Chauhan
			Riya Bongirwar	Saurav Malik	Sonakshi Gupta
		II	Sreyashi Nath	Tanu Bansal	Debashreeta Das
				Neeru	
III					
9	B.Sc (Hons) Physics	I	Mehul Chakraborty	Alex Kumar Singh	Awadhesh Kumar Singh
			Hritik Singh	Ashutosh Shukla	Arnob Sarkar
		II	Amit	Kusumpal Yadav	Shubham Durgapal
III					
10	B.Sc (Hons) Polymer Science	I	Jyoti Dahiya	Neema Khushwaha	Avinash Sandilya
			Komal	Sumit Kumar	Saiyam Dobhal
		II	Hitesh Duggal	Bhawana	Sachin Sharma
III					
11	B.Sc (Hons) Zoology	I	Sushma Yadav	–	–
			Shweta		
		II	Varsha Kaushik		
III	Anjali Mishra				



Star College Scheme

Under the ongoing Star College Scheme of Department of Biotechnology in our college, several activities were successfully executed. The foremost aim of the scheme is to strengthen science education and research at the undergraduate level. Keeping the objectives in mind, the following activities were steered at the college level during 2018-19.

1. PFMS-EAT (Public Financial Management System - Expenditure, Advance and Transfer) special training cum hands-on session was organized by our college as an outreach program at Meerut College, Meerut and Khalsa College, Anandpur during the month of December 2018.
2. Invited talks of eminent scientists delivered by Prof. Srikant Kukreti and Dr. L. Karthigeyan on 'Brilliant discoveries: Incredible people' and 'Logistics and supply chain management' respectively fascinated students with impending surfeit information. Lecture series with the theme of 'Plant Microbe Interaction' motivated students for research.
3. Hands-on training and workshops on topics of day to day relevance have enhanced interest in science. To name a few, workshops on 'Stress and Coping: An Insight', 'Handling and Care of Laboratory Animals' and 'Chocolate making' were well appreciated by all. The mandate of the scheme is also to have crosstalk between the various departments and foster an interaction between faculty and students. This is being achieved by involving and engaging students with diverse interests in minor research projects.
4. The students were also given experiential learning through visits to various industries, institutes and research laboratories. These visits helps them to understand applications of science in other institutes and also familiarize them with various career options into their chosen scientific fields.
5. To inculcate the attributes of social responsibility and empathy amongst students, the departments observed several National Days and also conducted outreach activities. Through these programmes, students have understood the importance of social interactions as they go to schools, villages and neighbouring institutes.

As per the DBT norms, the scheme is being smoothly conducted by various team leaders which are as mentioned below:

Coordinators of the Star College Scheme (2018-19)

1. Dr. Balaram Pani, Chairman, Star College Scheme
2. Dr. Uma Chaudhry, Coordinator, Star College Scheme
3. Dr. Anita Sondhi, Coordinator, Department of Biochemistry
4. Dr. Uma Dhawan, Coordinator, Department of Biomedical Science
5. Dr. Vandita Gupta, Coordinator, Department of Food Technology
6. Dr. Pawas Goswami, Coordinator, Department of Microbiology

Coordinators of the Star College Scheme for the Additional Courses

1. Dr. Balaram Pani, Chairman, Star College Scheme
2. Dr. N.S. Abbas, Coordinator, Star College Scheme
3. Dr. Jitender Kumar, Co-coordinator, Star College Scheme
4. Dr. Vandana Batra, Coordinator, Department of Physics
5. Dr. Geeta Bhatt, Coordinator, Department of Instrumentation
6. Dr. Amit Kumar, Coordinator, Department of Electronics
7. Sh. Bhavya Deep, Coordinator, Department of Computer Science



Departmental Activities and Faculty Achievements

Department of Biochemistry

Departmental Activities

- Department of Biochemistry in collaboration with Department of Zoology organized a one-day seminar on ‘Neuroplasticity: Role in Learning, Memory and Spinal Injury’ on February 20, 2019 which included talks by the two invited speakers, Prof. Neeraj Jain (Director, National Brain Research Centre) and Prof. Shiv Kumar Sharma (Scientist, NBRC), and Poster Presentation Competition on ‘Landmark Achievements in Neurosciences’. The event was attended by nearly 120 students and faculty members.
- The department collaborated with Department of Zoology to organise their first-ever annual festival ‘ZOOSANGAM’. The festival with lots of academic and fun activities was held on January 18, 2019.
- The department in collaboration with Department of Human Communication organized one day workshop on ‘Stress and Coping: An Insight’ on November 01, 2018 for semester I students of B.Sc. Hons. (Biomedical Science, Botany, Food Technology and Microbiology).
- The department in collaboration with ‘International Centre for Genetic Engineering and Biotechnology’ conducted a one day ‘Workshop on Foldscope as Tracking and Detecting Tool for Protein Crystallization’ on October 26, 2018. It was attended by semester III students of Department of Biomedical Science and Microbiology of the college.

Academic Achievements of the Faculty

Dr. Anita Sondhi

- Attended the Faculty Development Program cum Workshop on ‘Climate Across the Curriculum: Resources for Integrating Climate Topics’ in ‘Discipline Specific Teaching’ organized by Sri Venkateswara College (SVC), Delhi University in collaboration with ‘TROPISCU’9, a climate Education Project funded by the International Council for Science and IISER, Pune on October 13-14, 2018.

Department of Biomedical Science

Departmental Activities

- ‘Genesis 19’, the annual inter-college festival of DNamics, the society of the department was held on February 06, 2019. It comprised of lectures by Dr. Rajesh S. Gokhale, Former Director, CSIR-IGIB and Staff Scientist VII, National Institute of Immunology, New Delhi, and Professor Yogendra Singh, Dean Research (Life Sciences), University of Delhi, Delhi followed by various students’ activities.
- The department in collaboration with Manipal Hospitals, Dwarka, New Delhi organized an awareness drive on Cervical Cancer for the staff and students of the college on January 21, 2019.



- The students of the department also attended the 6th World Congress on ‘Nanomaterials Science and Technology’ and ‘Chemistry Biology Interface Synergistic in New Frontiers (CBISNF-2019)’ from January 07-09, 2019 at Vigyan Bhawan, New Delhi.
- The students of the department attended the International Symposium on Infectious Diseases from November 12-14, 2018 held at Jamia Hamdard, New Delhi and Regional Centre for Biotechnology (RCB), Faridabad, Haryana.
- A lecture on ‘Microscopy as a Tool for Studying Live Sciences’ was delivered on November 05, 2018 by Dr. Deepak K. Saini, Department of Molecular Reproduction, Genetics and Development, Indian Institute of Science, Bengaluru.
- The department organized a two-day workshop on ‘Handling and Care of Laboratory Animals’ comprising of lectures and live demonstration of handling laboratory animals in association with CLAR, JNU, New Delhi on October 31-November 01, 2018. The workshop had enthusiastic participation from different colleges and universities.
- An invited lecture on Radio safety was delivered by Dr T. Ganesh, Chief Radiation Safety Officer, Manipal Hospitals, Dwarka, New Delhi on October 30, 2018. The lecture was instrumental in reinforcing the importance of radio safety among students.
- An inter-college Awareness Quora including E-quiz on Radiation Safety was conducted for students on October 30, 2018.
- An inspiring lecture on ‘Brilliant Discoveries: Incredible People’ was delivered by Professor Shrikant Kukreti, Department of Chemistry, University of Delhi on October 26, 2018.
- The students and a faculty member of the department carried out an outreach activity on Pesticide Awareness for the students of Sarvodaya Bal Vidyalaya, Matiala, Delhi on October 22, 2018.
- The students and faculty members of the department visited Oncology section of the Manipal Hospitals, Dwarka, New Delhi for gaining knowledge about radiology and radiotherapy techniques on October 11, 2018.
- The students and a faculty member of the department visited CSIR- Institute of Genomics & Integrative Biology, Mathura Road, New Delhi on September 27, 2018 on the occasion of the CSIR open day. The visit provided excellent opportunity to the students for interacting with the experts in the latest fields of science and technology.
- An inter-college poster making competition on the theme of ‘Life under Lens’ was organized on September 26, 2018.
- The students of the department visited National Brain Research Centre, Manesar, Haryana on September 20, 2018 on the Open Day.
- Three students of the department participated in the ‘International Ozone Day’ celebration held at Delhi Secretariat on September 17, 2018 and received a cash prize of Rs. 2000/- as “Appreciation Award” for their presentation on ‘Why Ozone, Why Today?’.
- A session to propagate the need of ‘Eye Donation’ amongst the students and staff of the department was organised in the department by Saksham Seva under Cornea Andhatv Mukta Bharat Abhiyan (CAMBA) on September 07, 2018. The short movie on the Swachhata theme was also screened on the same day.



- Members of the department took the Swachhata pledge on September 05, 2018.
- Swachhata Day was observed in the department on August 08, 2018. Students, faculty members and non-teaching staff of the department participated enthusiastically in the cleaning of laboratories and corridors of the department.

Academic Achievements of the Faculty

Dr Uma Chaudhry

- Participated and presented a poster entitled ‘Tackling antibiotic resistance menace: Antibiotics, food safety and the growing needs for concerted efforts’ at “One Health India Conference held on 18th and 19th February 2019 at New Delhi by Department of Biotechnology (DBT).
- Coordinated “Cervical Cancer Training, Awareness cum Lecture” held in the college on 21st January 2019.
- Invited as a Resource Person for the workshop entitled “Hands-on-Training in molecular techniques in Biotechnology” held at the Sri Tikaram Kanya Mahavidyalaya, Aligarh from 5th to 7th December 2018.
- Participated in the “National Science Teachers Congress of the Indian International Science Festival” organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow on 5th to 8th October 2018.
- Participated as a resource person of foldscope in the “North East Students Conclave of Indian International Science Festival” organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow on 5th to 8th October 2018.
- Participated as a Trainer in the DBT Foldscope Orientation Workshop organized by the Department of Biotechnology (DBT) on 16th and 17th April 2018 at International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi.
- Pawar, A. Jha, P., Konwar, C, **Chaudhry U.**, Chopra, M., Saluja. D (2019). ‘Ethambutol targets the glutamate racemase of *Mycobacterium tuberculosis* – an enzyme involved in peptidoglycan biosynthesis’. Applied Microbiology Biotechnology. 103(2):843-851. doi: 10.1007/s00253-018-9518
- Sircar, A., Pani, B. and **Chaudhry U.** (2018). ‘Biosimilars as therapeutic agents against neurodegenerative diseases – a focus on multiple sclerosis’. Modern Applications of Bioequivalence and Bioavailability. 3(4): MABB.MS.ID 555619
- Sircar, A., Gupta, P., Pani, B, Thakur, R.S., Mittal, A., Anand, P., Bansal, N., Bhaskar, D. and **Chaudhry U** (2018). ‘Selection strategy for shortlisting potential candidates for the development of Biosimilars’. DU Journal of undergraduate research and innovation. 3(1): pp21-42.

Dr. Shivani Varmani

- Coordinated and organized lectures cum awareness quorum on Cervical Cancer at Bhaskaracharya College of Applied Sciences, University of Delhi on January 21, 2019.
- Attended Introductory Training Session on ‘Cervical Cancer Awareness’ at Manipal Hospitals Dwarka, New Delhi on January 16, 2019.



- Coordinated an inter-college lecture cum awareness quora including E-Quiz on Radiation Safety by Dr. T. Ganesh at Bhaskaracharya College of Applied Sciences, University of Delhi on October 30, 2018.
- Coordinated the visit of students of BMS Department to Oncology Section Manipal Hospital at Dwarka, New Delhi on October 11, 2018.
- Participated in the session on Pedagogy & Research Tools by ‘GADTLC’ at IDA Connect workshops organized by DIDAC India on October 04-06, 2018.
- Coordinated an inter-college poster making competition on ‘Life under Lens’ at Bhaskaracharya College of Applied Sciences, University of Delhi on September 26, 2018.
- Attended FDP on ‘Introduction to R Programming’ at Janaki Devi Memorial College, University of Delhi on August 06-07, 2018.
- Attended Faculty Empowerment Workshop on “Stress Management and Emotional Intelligence in Teaching Learning Environment” at Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi on March 17, 2018.

Dr. Uma Dhawan

- Principal Investigator, SERB-DST Project (2018-2021) ‘Significance of 5-Hydroxymethylcytosine in Neurodegeneration Associated with Rapid Eye Movement Sleep Deprivation’. Sanctioned Grant Rs. 40.11 lakhs.
- Ash P.E.A*, **Dhawan, U***, Boudeau, S., Lei, S., Carlomagno, Y., Knobel, M., Al Mohanna, L.F.A., Boomhower, S.R., Newland, M.C., Sherr, D.H. & Wolozin, B. (2019). Heavy Metal Neurotoxicants Induce ALS-Linked TDP-43 Pathology. *Toxicological Sciences*, 167(1), 105-115. ISSN: 1096-6080. (* Equal first authors)
- Ph.D. supervisor of Ms. Nitika in ACRB, University of Delhi from November 2018.
- Mentored Mr. Yathartha Kumar and Ms. Diksha Lakhani, students of B.Sc. (Hons.) Biomedical Science, Bhaskaracharya College of Applied Sciences, University of Delhi, for two months summer project (2017-2018) entitled ‘Green Synthesis of Silver Nanoparticles using Aqueous Stem Extract of *Terminalia bellerica*’ in association with Dr. Hemant Gautam, CSIR-IGIB, New Delhi.
- Appointed as judge for ‘Scientific Writing Competition’ organized by School of Computational & Integrative Sciences, JNU, New Delhi concurrently with InCoB2018 under the aegis of ISCB SC-RSG-India on December 28, 2018.
- Attended Animal Behaviour and Welfare workshop of International Society for Applied Ethology organized by CSIR-IGIB, Delhi on December 08, 2018.
- Convener for the two-day workshop on ‘Handling and Care of Laboratory Animals’ organized by the Department of Biomedical Science in association with CLAR, SLS, JNU on October 31- November 01, 2018.
- Organized visit of the students of the department to CSIR-IGIB on September 27, 2018.
- Course Reviewer for B.Sc. (H) Neurosciences and M.Sc. Neurosciences of Amity Institute of Neuropsychology and Neurosciences, Amity University, Noida, in June 2018.
- Attended a workshop on ‘Sexual Harassment of Women at Workplace’ (Prevention, Prohibition and Redressal Act, 2013) organized by Internal Complaints Committee, JNU on May 01-02, 2018.



- Resource Person for MHRD GIAN Course on ‘RNA Metabolism and Neurodegenerative Diseases’ held from April 02-07, 2018 at University of Delhi.
- Star College Coordinator, Department of Biomedical Science (April 2018-till date).
- Involved in revision of syllabus for CBCS of B.Sc. (Hons.) Biomedical Science course of University of Delhi (2018).
- Member, Committee of Courses (2017-19), Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi.
- Guest faculty for teaching Biostatistical Tools to Ph.D. course work students (2017-18) at Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi.

Dr. Kapil Roy

- Member, organizing committee of the workshop on ‘Handling and Care of Laboratory Animals’ organized by Bhaskaracharya College of Applied Sciences, University of Delhi in association with Central Laboratory Animals Resources, JNU on October 31- November 01, 2018.
- Event coordinator, Invited Talk on ‘Brilliant Discoveries: Incredible People’ organized by ‘DNAmics Society’ of Department of Biomedical Science on October 26, 2018.

Dr. Neha Singh

- Member, organizing committee of the workshop on ‘Handling and Care of Laboratory Animals’ organized by Bhaskaracharya College of Applied Sciences, University of Delhi in association with Central Laboratory Animals Resources, JNU on October 31- November 01, 2018.
- Member, organizing committee of seminar entitled ‘Opportunities in Science, Challenges and Way Forward’ organized by the Training and Placement Cell of Bhaskaracharya College of Applied Sciences on October 05, 2018.
- Invited as resource person for ‘Foldscope Making Session’ during the Science Fusion program at Vigyan Prasar, Noida on May 25, 2018.
- Participated and attended GIAN course titled ‘RNA Metabolism and Neurodegenerative Disorders’ from April 02-07, 2018 at Department of Chemistry, University of Delhi.

Dr. Shvetambri

- Kumar, A., **Tyagi S.**, Singh R. & Tyagi Y. K. (2018). Synthesis, characterization and self-assembly studies of dendron-based novel non-ionic amphiphiles. *New Journal of Chemistry*, 43, 1025-1031. ISSN: 1144-0546.
- Worked as a member in organizing committee of the workshop on ‘Handling and Care of Laboratory Animals’ organized by Bhaskaracharya College of Applied Sciences in association with Central Laboratory Resources JNU, New Delhi on October 31- November 01, 2018.
- Worked as a coordinator of ‘Pesticide Awareness Drive’ organized by Department of Biomedical Science, Bhaskaracharya College of Applied Sciences, University of Delhi, Dwarka, New Delhi on October 22, 2018.
- Participated in workshop cum hands-on-training programme on ‘Molecular Diagnostics of Infectious Diseases: Advances and its Applications’ on March 19-24, 2018.



- Participated in National Conference on Technological Empowerment of Women organized by National Academy of Sciences, India held at Vigyan Bhawan, New Delhi on March 16-17, 2018.

Dr. Shubhra Barwa

- Coordinated and organized lectures cum awareness quorum on cervical cancer at Bhaskaracharya College of Applied Sciences, University of Delhi on January 21, 2019.
- Attended Introductory Training session on “Cervical Cancer Awareness” at Manipal Hospitals Dwarka, New Delhi on January 16, 2019.
- Organized an inter-college lecture cum awareness quorum including E-Quiz on ‘Radiation Safety’ by Dr. T. Ganesh at Bhaskaracharya College of Applied Sciences, University of Delhi on October 30, 2018.
- Participated in National Workshop on ‘Pedagogy and ICT Tools for Assessment’ at Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi on October 18, 2018.
- Attended FDP cum workshop on ‘Climate Across Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching’ at Sri Venkateshwara College, University of Delhi on October 13-14, 2018.
- Coordinated the visit of students of BMS Department to Oncology Section, Manipal Hospital at Dwarka, New Delhi on October 11, 2018
- Participated in a session on ‘Driving 21st Century Skills and Making Learning Accessible’ by Microsoft Corporation Pvt. Ltd. at IDA Connect workshops organized by DIDAC India on October 04-06, 2018.
- Participated in a session on ‘Core Skills for Teachers’ by British Council at IDA Connect workshops organized by DIDAC India on October 04-06, 2018.
- Organized an inter-college poster making competition on ‘Life under Lens’ at Bhaskaracharya College of Applied Sciences, University of Delhi on September 26, 2018.
- Participated in conclave on ‘Biodiversity for Everyone’s Life’ at Miranda House, University of Delhi on August 31, 2018.
- Participated in National Conference on ‘Scientific Innovation-A Head Start’ at St. Stephen’s College, University of Delhi on April 05-06, 2018.
- Attended Faculty Empowerment Workshop on ‘Stress Management and Emotional Intelligence in Teaching Learning Environment’ at Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi on March 17, 2018.
- Involved in revision of syllabus for CBCS of B.Sc. (Hons.) Biomedical Science course of University of Delhi, 2018.



Department of Botany

Departmental Activities

- The Department organized an educational visit to Aravalli Biodiversity Park, Vasant Vihar, New Delhi on October 06, 2018. As a part of Wildlife Week Celebration, various competitions for students such as slogan writing, painting, etc. were organized.
- An educational trip to National Brain Research Institute (NBRC), Manesar, Haryana was organized with the aim to develop scientific temperament among the students on September 20, 2018.
- Intra-college poster making competition on the theme, ‘पर्यावरण और जीवन’ was organized by the department in collaboration with the Eco-club of the college, ‘Pranahi’ under the aegis of IQAC, as part of Ozone Day Celebration on September 14, 2018. Recycled paper sheets made in the college were provided to the participants upon registration for making the poster on the given theme.
- Intra-college pot decoration was organized by the department on August 30, 2018.
- To impart environmental awareness among students a Paper Recycling Workshop was organized by the department in collaboration with the Eco-club, as part of Ozone Day Celebration on August 18, 2018. Students from various departments attended the workshop.
- The department in collaboration with Eco-club ‘Pranahi’, under the aegis of IQAC, conducted tree census of the college campus on August 10, 2018 with active participation from the students. Total number of 46 trees were counted and identified. This helped students learn college tree species, their scientific names, and their importance.
- The department organized a cleanliness drive on Swachhta Day as an environmental awareness programme on August 09, 2018. All the students, teaching and non-teaching staffs participated and made the programme successful.

Academic Achievements of the Faculty

Dr. N.S. Abbas

- Coordinator for the additional courses under Star College Scheme of DBT.
- Participated in ‘Indian International Science Festival’ organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow on October 05-08, 2018.
- Coordinator for the workshop cum hands-on-training programme on ‘Molecular Diagnostics of Infectious Diseases: Advances and its Applications’ organized by Dr. B.R. Ambedkar Centre for Biomedical Research in collaboration with Bhaskaracharya College of Applied Sciences (BCAS) held during March 16-17, 2018.

Dr. Sujata Bhardwaj

- Participated in the Faculty Development Program cum workshop on ‘Climate Across the Curriculum: Resources of Integrating Climate Topics in Discipline-Specific Teaching’ organized by IQAC, Sri Venkateswara College (SVC), University of Delhi (DU) in collaboration with TROPICSU, a climate Education Project funded by International Council of Science (ICSU) & IISER, Pune, India on October 13-14, 2018.



- Participated in ‘Indian International Science Festival’ organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow on October 05-08, 2018.

Dr. Ankita Bidalia

- Councillor cum member of the “Society for Environment & Development (SED India)” for the session 2019-2021.
- Meena, A; **Bidalia, A**; Hanief, M; Dinakaran, J; Rao K.S. ‘Assessment of above and below ground carbon pools in a semi-arid forest ecosystem of Delhi, India’. *Ecological Processes*. (Accepted for publication).
- **Bidalia, A**; Vikram, K; Gupta, Y & Rao, K.S. ‘Effect of Salinity on the Nutrients and Plant Health. In Dr. Mohd. Sayeed Akhtar (Ed). Salt Stress, Microbes and Plant Interactions causes and solution’. Springer nature Publication, Singapore Pvt. Ltd. (Accepted)

Dr. Rajwant Kaur

- Attended one day workshop on ‘Data Science with R- Language’ organized by Department of Computer Science, Bhaskaracharya College of Applied Sciences, University of Delhi on February 19, 2019.

Dr. Salam Sonia Devi

- Attended conclave on ‘Biodiversity For Everyone’s Life’ organized by Miranda House, University of Delhi and Institute of Bioresources and Sustainable Development (IBSD), Manipur on August 31, 2018 at Miranda House, University of Delhi.

Department of Chemistry

Departmental Activities

- The Chemical Society ‘ALCHEMY’ in association with Department of Biomedical Science organized ‘Chemcarnival’ and ‘Antibiotics Awareness Programme’ on January 18, 2019. The day was celebrated as ‘Bhaskaracharya Chemistry Day’. The function was well attended by the invited guests, researchers, college staff members and students. Dr. Manjeet Singh Barwa, Assistant Professor, gave a presentation on use and role of antibiotics, their importance, and precautions to be taken. The lecture was followed by intra-college events (Quiz: Green Chemistry, Bollywood Head Scratcher, Volleyball, Retro Singing, Patriotic Poem Recitation and Treasure Hunt) followed by Prize Distribution. The programme ended with vote of thanks.
- On January 10, 2019, a cleanliness drive was conducted in the department which was well attended by students and staffs (both teaching and non-teaching).
- A trip to Aravali Biodiversity Park was organized on November 01, 2018. In all, forty nine students from various departments along with Dr. Franky Varah, Assistant Professor, visited the park.
- On October 31, 2018, BEST (Bhaskaracharya Environmental and Sustainability Taskforce) of Bhaskaracharya College of Applied Sciences organized a ‘Clean Diwali, Green Diwali’ campaign in the college premises. The event took place in collaboration with Eco-club. The campaign focused on celebrating an environment-friendly Diwali.



- On October 24, 2018, one-day workshop was conducted on ‘Portable Spectrophotometer’ for faculty members and research scholars. Expert from TestRight Nanosystems, IIT Delhi, spoke about the working, precision and portability of the instrument.
- On October 23, 2018, an invited lecture was held on ‘Carbon Footprint’ in the college AV Room. Dr. Deeksha Katyal, Assistant Professor, School of Environment Management, Guru Gobind Singh Indraprastha University, New Delhi delivered the lecture and interacted with students.
- On September 24, 2018, Dr. Balaram Pani, Principal, Dr. Manjeet Singh Barwa, Assistant Professor, research scholars and students attended the inaugural ceremony of ‘India International Science Festival’. The event was organized by Ministry of Earth Science, Ministry of Science and Technology in association with Vijnana Bharati (VIBHA).
- On September 20, 2018, National Brain Research Centre (NBRC) organized an ‘Open Day’ under the banner of India International Science Festival (IISF) to showcase their ongoing neuroscience research activities. The students were exposed to many neuroimaging techniques. In addition, senior scientist Prof. Shiv K. Sharma delivered a talk on ‘The Functioning of the Healthy Brain and How Brain Forms Memories and Helps in Recalling Them’.
- The Chemical Society ‘ALCHEMY’ organized a debate and essay writing competition on August 10, 2018. The topics of debate and essay writing competitions were ‘Food: Past Perspectives vs. Present Perspectives’ and ‘Nanotechnology-Is It the Latest Fad and Excessive Use of Mobile Phones and Electronic Devices’, respectively. In all, 6 students participated in debate and 13 in essay writing competition.
- As part of ‘Swachh Bharat Abhiyan’ cleanliness drive is conducted on a routine basis. A special cleanliness drive was held on August 09, 2018. All faculty members and students from B.Sc. (H) chemistry first and second year actively participated in the program. All rooms and laboratories were cleaned during this drive.

Academic Achievements of the Faculty

Dr. Balaram Pani

- Singh, A. K., Thakur, S., **Pani, B.** & Singh, G. (2018). Green synthesis and corrosion inhibition study of 2-amino-N'-(thiophen-2-yl) methylene) benzohydrazide. *New Journal of Chemistry*, 42, 2113-2124. ISSN: 1144-0546.
- Sircar, A., **Pani, B.** & Chaudhry, U. (2018). Biosimilars as therapeutic agents against neurodegenerative diseases-A focus on multiple sclerosis. *Modern Applications of Bioequivalence & Bioavailability*, 3(4), 1-4. ISSN: 2577-2856.
- Nain, R., Dobhal, S., Bidaliya, P., Saini, G., **Pani, B.** & Sirohi, S. (2018). Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis. *RSC Advances*, 8, 20287-20294. ISSN: 2046-2069.

Dr. Sampat Singh Chauhan

- Singh, P., **Chauhan, S. S.**, Singh, G. & Quershi, M. A. (2019). Corrosion inhibition by green synthesized inhibitor: 4,4'-(1,4Phenylene) bis (6-amino-3-methyl-2,4dihydropyrano [2,3-C] pyrazole-5 carbonitrile) for mild steel in 0.5 M H₂SO₄ solution. *Journal of Bio- and Tribo-Corrosion*, 5(1), 11. ISSN: 2198-4220.



Department of Computer Science

Departmental Activities

- Department organized a workshop on February 19, 2019 on “Data Sciences using R Technology” with DUCAT. Speakers gave the information about Machine Learning, Deep Learning, Data Sciences, Artificial Intelligence and R Language.
- Department of organized an Industry interaction visit of students to the “AI INDIA-2019” event. The event was organized by C II, Confederation of Indian Industry, Supported by Ministry of Electronics and Information technology, on Artificial Intelligence India on February 4, 2019 at Pragati Maidan.
- Department organized a Seminar on January 23, 2019 on “M-Commerce” in collaboration with ICT Academy within the college premise, as an Outreach Activity for neighbouring government school’s students. The seminar was conducted by Mr. Ved Shukla (Founder & CEO, Benefic Media) and Mr. Karan Dobhal (Head- Alliances & partnership Cheep Care). They tell students about M.Commerce.
- The department has its own society CS.Net which holds annual inter college techno-cultural departmental festival “Interface” every year. Department organized the festival on 23rd and 24th January, 2019. The events such as photo-editing, LAN gaming, talent hunt, techno art, tech quiz, fastest fingers, code wars, treasure hunt and just a minute.
- Another seminar was organized by the Department in association with Landmark Institute under the guidance of Dr. Sangeeta Srivastava on October 10, 2018 on 'Career in IT after Graduation'. Mr. R. Chadha, Director of Landmark Institute, was the speaker for the session. He is a great motivator and informed the students about the latest trend in IT sector and career opportunists in the area of computer science after graduation.
- On October 9, 2018, the Department of in association with ICT Academy organised an outreach activity on ‘Digital divide and Role of Social Media’ for school students. This was attended by neighbouring school students of class 10th and 11th from Vandana Public School, Sector -10, Dwarka New Delhi – 110075. The seminar was conducted by Mr. Himanshu Chawla, Product Manager, Academic Initiative, Delhi-NCR. He informed students about the effect of social media and the underlying cause of stress, anxiety and depression in today's life and especially on the young generation.
- Department hosted a ‘Cloud Literacy Day’ event in collaboration with Amazon Web Services and ICT Academy on October 8, 2018, under the guidance of Dr. Sangeeta Srivastava, Convener and Dr. Bhavya Deep, Co-convener. Our is the second college in Delhi to host the ‘Cloud Literacy Day’ event. The seminar was headed by Mr. Anandbabu P, and Mr. Lovetesh Kumar from ICT Academy. Mr. Anand Babu educated us about the cloud services. As a result of ‘Cloud Literacy Day’ both students and faculty were benefited with a \$75 coupon for using on AWS for certificate courses and were given an opportunity to enrol for inventor’s badge certificate course of AWS free of cost on the ‘Cloud Literacy Day’.
- Department has started a new quiz club called “QUIZZARDS” on September 20, 2018 under the guidance of Dr. Sangeeta Srivastava for hosting inter departmental and intra college quizzes.



Academic Achievements of the Faculty

Ms. Manu Kataria

- Co-Convened the workshop on February 19, 2019 on “Data Sciences using R Technology” with DUCAT. Speakers gave the information about Machine Learning, Deep Learning, Data Sciences, Artificial Intelligence and R Language.
- Invited as a Resource Person by The Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, Conducted by University of Delhi on Refresher Course in Gender Studies (IDC) for the University and College teachers of all streams (Humanities, Commerce & Science etc.) from January 15, 2019 to February 5, 2019.

Dr. Sangeeta Srivastava

- Convened the workshop on February 19, 2019 on “DATA SCIENCE USING R TECHNOLOGY” with DUCAT. Speakers gave the information about Machine Learning, Deep Learning, Data Sciences, Artificial Intelligence and R Language.
- Organized an Industry interaction visit of students to the “AI INDIA-2019” event. The event was organized by CII, Confederation of Indian Industry, supported by Ministry of Electronics and Information technology, on Artificial Intelligence India on February 4, 2019 at Pragati Maidan.
- Reviewer of the paper at the conference Fuzzy System and Data Mining held at Japan on February 4, 2019.
- Reviewer of the paper for International Journal of System Assurance Engineering and Management (IJSA).
- Convener of the CS.Net Techno Cultural Inter College Festival held on January 23 and 24, 2019.
- Convener for an outreach activity organized for neighbouring Government school students on “M-Commerce”, organized by Department of Computer Science in collaboration with ICT Academy on January 23, 2019.
- A member of Technical Program Committee (TPC) of IC3-2019 Conference.
- **Srivastava, S.**, (2018) Model Transformation Mapping in Method Engineering-A Primer, Delhi: Serial Publications Pvt. Ltd. ISBN No. 978-93-86611-29-1.
- Participated in the “Bridge 2018” event hosted by the ICT Academy dated December 12, 2018, New Delhi.
- Convened a seminar on 'Career in IT after Graduation' on October 10, 2018 for educating the students of the computer science department regarding the vast avenues available to them after graduation
- Convened and participated in an outreach activity for neighbouring schools on ‘Digital Divide and Role of Social Media’ on October 9, 2018.
- Convener, “Cloud Literacy Day” hosted in collaboration with ICT Academy and Amazon Web Services. Ours was the second College to host the event in Delhi on October 8, 2018. The event was attended by more than hundred students and the college was recognised as a Cloud Literate Campus by AWS.



- Awarded “Cloud Champion Award” by Amazon Web Services and ICT Academy for hosting the “Cloud Literacy Day” where more than hundred students successfully completing AWS Inventor Badge on October, 8 2018.
- Convener “Cloud Literacy Day”, efforts helped in recognizing Bhaskaracharya College as ‘CLOUD LITERATE CAMPUS’ in India due to the roaring success of “Cloud Literacy Day” dated October 8, 2018.
- Digitally certified as AWS Cloud Literate (Inventor) by Amazon Web Services on October 8, 2018.
- Started Departmental Quiz Society “QUIZZARDS” on September 24, 2018 for hosting Quiz intra departmental and intra college quiz events.
- Participated in Faculty Development Program on “Introduction to R Programming” at Janki Devi Memorial College from August 6-7, 2018.
- Member of syllabus revision committee for B Sc. (H) Computer Science, University of Delhi for the meeting held on March 26, 2018.

Mr. Bhavya Deep

- Participated in one-day workshop on “Data Science with R Language” organized by Department of Computer Science in collaboration with DUCAT, BCAS on February 19, 2019.
- Co-convener for an outreach activity organized for neighbouring Government school students on “M-Commerce”, organized by Department of Computer Science in collaboration with ICT Academy on January 23, 2019.
- Departmental Coordinator in Alumni Meet 2018 held in the college on January 18, 2019.
- Participated in a workshop titled “Internet of Things” by DUCAT held in the college on January 10, 2019.
- Got Certificate of Recognition in appreciation of excellence participation and proficiency in National Conference on Skilling in Higher Education on November, 28 2018 at Bharat Sanchar Bhawan, Delhi by CMAI Association of India
- Invited Speaker on October 16, 2018 for Workshop on “Internet of Things” organized by Department of Computer Science and Engineering, Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut, India. Also conducted hands on session on “Working with Ubidots”.
- Membership of IEEE Technical Committee on Services Computing (TCSVC).
- Co-convener for an outreach activity organized for neighbouring schools on ‘Digital divide and role of social media’ in collaboration with ICT Academy on October 9, 2018.
- Co-convener for AWS Cloud Literacy Day Workshop organized by Department of Computer Science, BCAS in collaboration with ICT Academy on October 8, 2018.
- Digitally certified as AWS Cloud Literate (Inventor) by Amazon Web Services on October 8, 2018.
- Participated in IDA Connect Workshops at DIDAC India 2018 for the session “National Workshop on Pedagogy and ICT Tools for Assessment”, conducted by GAD TLC of MHRD, October 4-6, 2018.
- Participated in one day seminar on “Opportunities in Sciences, Challenges and Way Forward” held on October 5, 2019 under the aegis of Training and Placement cell of the College.



- Presented paper on “An Approach towards more Accurate Forecasts of Air Pollution Levels through Fog Computing and IoT”, in International Springer Conference on ICT for Sustainable Development co-located with International Research Symposium on Computing and Network Sustainability held during 30-31 August, 2018 at Goa, India.
- Editorial Board Member (Reviewer) in UGC referred Journal IJDCC (International Journal of Distributed and Cloud Computing), ISSN Number 2321-6840.
- Presented paper on “Content Rating Technique for Cloud Oriented Content Delivery Network using Weighted Slope One Scheme”, in IEEE CLOUD 2018 Conference on July 2, 2018 by IEEE World Congress on Services, held at San Francisco, California, USA.
- Bedi, P., **Deep, B.**, Kumar, P.& Sarna, P. (2018). Comparative Study of OpenNebula, CloudStack, Eucalyptus and OpenStack, International Journal of Distributed and Cloud Computing, 6(1), pp37-42 ISSN: 2321-6840.

Ms. Arti Dua

- Was invited as a resource person to take a session on “Hot Potatoes - An ICT Tool for making Interactive Assessments”, in one-week faculty development program titled e-Learning, MOOCs and ICT Tools for making Interactive Assessments at Guru Angad Dev Teaching Learning Centre, A Centre of MHRD under PMMMNMTT held on dated July 5, 2018.
- Participated in a three-day workshop on Cyber Security from April 13-15, 2018 at Deen Dayal Upadhyaya College, University of Delhi.

Dr. Jayant Sharma

- **Sharma, J.**, (2018) Informatics Practices Class XIth CBSE, New Delhi: B.R. International Publishers, ISBN No – 978-81-89974-59-6.
- **Sharma, J.**, (2018) “Information Technology” Class IXth CBSE, New Delhi: B.R. International Publishers, ISBN No – 978-81-89974-57-2.
- Participated in India Skills 2018 as Jury Member held at Aerocity Ground, New Delhi from October 2-6, 2018.
- Member of “Moderation Committee” for Post Graduate Diploma in Information Security of IGNOU from dated October 10, 2018.

Ms. Anshika Singh

- Attended a workshop on “DATA SCIENCE with R Language” organized by Department of Computer Science, BCAS on February 19, 2019.
- **Singh, A.**(2019). Use of ICT in Food and Agriculture Sector. In S. Sharma, M. Aggarwal, D. Sharma (Eds.) Food Frontier. (pp. 291-305) New Delhi, Delhi: New Delhi Publisher. ISBN No. 978-93-86453-84-6.
- Attended one-week Faculty Development Program on Horton Hadoop Developer organized by Department of Computer Science, Ram Lal Anand College, University of Delhi, on May 21-25, 2018.



Mr. Parveen Kumar

- Bedi, P., Deep, B., **Kumar, P.** & Sarna, P. (2018). Comparative Study of OpenNebula, CloudStack, Eucalyptus and OpenStack. International Journal of Distributed and Cloud Computing, Vol 6(1) pp37-42 6(1), ISSN: 2321-6840.

Department of Electronics

Departmental Activities

- Organized an Annual Departmental Technical Fest ‘Techmania’19’ on February 20, 2019 in which Dr. Harsupreet Kaur, Assistant Professor, Department of Electronics, University of Delhi, South Campus, was invited to deliver a talk on ‘Emerging Nanoelectronic Devices’. Several events namely Techno Quiz, Circuit making competitions, and other fun events were also organized in which students from various Departments enthusiastically participated.
- One day seminar was held on the topic ‘What after Graduation’ on March 20, 2018.
- A talk by Prof. Ajoy Ghatak, Indian Institute of Delhi was organized on March 16, 2018.

Academic Achievements of the Faculty

Dr. Geeta Mongia

- Attended an international seminar on ‘Gender Parity: Issues and Challenges’ organised by Women Development Cell of Shivaji College, University of Delhi on January 15-16, 2019.
- Attended Faculty Development Program cum workshop on ‘Climate Across the curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching’ organised by IQAC, Sri Venkateswara College (SVC), University of Delhi, in collaboration with TROPICUSU, a Climate Education Project, Pune, India on October 13-14, 2018.
- Attended two day workshop on March 21-22, 2018 on the topic ‘Workshop on VLSI Current Trends Using Graphics & Xilinx’ held at Department of Electronic Science, University of Delhi South Campus.

Dr. Inderbir Kaur

- Participated in two-day FDP cum workshop on ‘Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline Specific Teaching’ organised by IQAC, Sri Venkateswara College, University of Delhi, in collaboration with TROPICUSU, a climate education project funded by the International Council for Science and IISER, Pune, on October, 13-14, 2018.

Dr. Avneesh Mittal

- Delivered two lectures in “3-Days Capacity Building INSET Program” at SV (New Police Line), Delhi, on February 06, 2019 conducted by SCERT, Delhi.
- Delivered two lectures in “3-Days Capacity Building INSET Program” at SBV (Shaheed Hemu Kalani), Lajpat Nagar, on February 01, 2019 conducted by SCERT, Delhi.



- Attended one-day national workshop on ‘Central Public Procurement Portal’ held on January 21, 2019 organized jointly by Department of Expenditure and National Informatics Centre, Ministry of Electronics & Information Technology at Delhi.
- Attended 7-Days Short-Term Course on ‘Research Methodology’ held from December 18, 2018 to December 24, 2018 organized by Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.
- Attended 3-weeks Refresher Course in ‘Social Concerns and Social Science’ held from November 27, 2018 to December 17, 2018 organized by Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.
- Resource person as judge in Northern Region Science Fare, held from November 03-05, 2018 organized by Vidya Bharati North Region at Geeta Bal Bharati Sr. Secondary School, Rajgarh Colony, Delhi.
- Attended two-days Functional Efficiency Training program on ‘Public Procurement under GFR 2017 including e-Procurement and GeM’. The training was conducted by Directorate of Training, Union Territories Civil Services, Govt. of National Capital Territory of Delhi on April 17-18, 2018.

Dr. Jitender Kumar

- Attended two-day Faculty Development program (FDP) cum workshop on the topic ‘Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline –Specific Teaching’ held at Sri Venkateshwara College, DU on October 13-14, 2018.

Dr. Amit Kumar

- Attended two-day workshop on March 21-22, 2018 on the topic ‘Workshop on VLSI Current trends using Graphics & Xilinx’ held at Department of Electronic Science, University of Delhi South Campus.

Department of Food Technology

Departmental Activities

- The departmental festival ‘AMBROSIA 2019’ was held on February 07-08, 2019 under convenorship of Dr. Vandita Gupta and co-convenorship of Dr. Sakshi Khurana. Two technical sessions on ‘Application of probiotics in non-dairy food products’ delivered by Dr. Vasudha Sharma (Assistant Professor, Jamia Hamdard) and ‘Status of Fortification in India: Progress So Far’ by Ms. Shivani Bansal Moghe (Consultant, Food Fortification Resource Centre, FSSAI) were held on February 07 and February 08, 2019 respectively. A technical session was conducted on February 08, 2019 by IMS to aid the student participants in developing their soft skills and to emphasise on the importance of higher level studies. There were many prize winning activities related to the theme of the fest i.e. ‘Youth Against Hunger’ were conducted successfully along with many fun games. The students had further put on sale of chocolates and baked products prepared by them during the fest.
- A workshop on ‘Cake Baking’ was organized on February 04, 2019 coordinated by Dr. Roshan Lal along with Dr. Sakshi Khurana. 30 students from B.Sc. (Hons.) Food Technology (III Year) were selected to participate in the workshop. The baked goods prepared viz. cupcake, muffins and brownies were later on put on sale during departmental festival ‘AMBROSIA 2019’.



- An expert lecture on ‘Logistics and Supply Chain Management’ was coordinated by Dr. Rizwana on 8th January, 2019. The lecture was delivered by Dr. L. Karthigeyan, Deputy Director, Education Division, Confederation of Indian Industry, Institute of Logistics, Chennai. The program was attended by all students of II- and III-Year B.Sc. (Hons.) Food Technology.
- A one day workshop on ‘Waste Management and Making of Compost’ was organized on November 28, 2018 (Coordinated by Dr. Meenakshi Garg). 40 staff members including MTS, safai karamchari, mali, etc. attended the workshop. It was organised by the Department of Food Technology, Waste Management and Garden Committee under star college scheme. Ms. Manisha, CEO of Hara Jeewan NGO was the resource person.
- A workshop on ‘Chocolate Making’ was organized on October 26, 2018 under the coordination of Dr. Vandita Gupta along with Dr. Roshan Lal and Mrs. Tanya L. Swer. 15 students from B.Sc. (Hons.) Food Technology (II Year) were selected to participate in the workshop. Various procedures for preparation of a variety of chocolate types procedure like Oreo chocolate, dry fruit chocolate, dark chocolate, mint chocolate was demonstrated by chocolate making professional Ms. Poonam Maurya Maheshwari. The students have learned a lot and provided exposure to chocolate processing. They further prepared chocolates to put for Diwali sale in the college premises on November 02, 2018. The response was over whelming as positive response was received from teachers, staff and students of the college. The taste was really appreciated and the team work helped in making this event a remarkable one.
- The Ambrosia Society organized an outreach activity on the theme ‘Food Safety and Food Nutrition’ in Government Co-Ed Senior Secondary School, Dwarka Sector-2, on October 12, 2018. 10 students from B.Sc. II and III Year participated with full zeal and enthusiasm in making the school students aware about the basics importance of personal hygiene and sanitation, nutritional labelling and importance of consuming a balanced, safe and nutritious diet. The interaction garnered positive feedback from the students and teachers as well as Principal of the school (The activity was coordinated by Dr. Vandita Gupta along with the Faculty member Dr. Roshan Lal and Ms. Tanya L. Swer.)
- As part of Swacch Bharat Mission in coordination with the Swacchata and Waste Management Committee, a cleaning drive was conducted on August 09, 2018 in the department. The students of all three years of the department and lab staffs actively participated in cleaning of the entire department including the Department Room, Sensory Lab, Pilot Plant, Lab 1, Lab2, Food Microbiology Lab and Research Lab under the coordination of the teaching staff (Coordinated by Dr. Roshan Lal).
- The departmental festival ‘AMBROSIA 2018’ was held on April 04-05, 2018 which turned out to be grand success. Both technical and fun activities were held in which students from different departments within the college and other colleges actively participated. Two technical sessions on ‘Supply Chain Management’ delivered by Dr. Deepak Mathur (Consultant, CII-FACE) was coordinated by Dr. Shalini Sehgal on April 04, 2018 and ‘Role of Accreditation’ by Ms. Vani Bhambri Arora was coordinated by Dr. Rizwana on April 05, 2018 respectively. Two technical sessions conducted by IMS were coordinated by Dr. Vandita Gupta to help the students develop their soft skills and make them aware about the importance of higher studies. There were many fun activities conducted successfully by the students along with the teachers of the Department (Festival Coordinator: Dr. Vandita Gupta)



Academic Achievements of the Faculty

Dr. Rizwana

- Attended Platinum Jubilee Conference of All India Food Processors' Association on December 20-21, 2018 at Vigyan Bhavan, New Delhi.
- Attended 13th CII Food Safety, Quality and Regulatory Summit on December 13-14, 2018.
- Attended World Food Day 2018 on Building partnerships to achieve the global goal of #zero hunger organised by AFSTI and FICCI on October 16, 2018, at FICCI Federation House, New Delhi.
- Attended a Two day Training Workshop on The Sexual Harassment of Women at Workplace (Prevention, Prohibition & Redressal) Act, 2013 [With special emphasis on the working of ICC and LCCs] organised by National Law University, Delhi under the aegis of National Academy of Law Teachers on and October 06-07, 2018.
- Judged the oral presentation session at the 2nd National Conference on 'Recent Innovations and Technological Developments in Food Science & Technology (AMIFOST-2018)' at Amity University, Noida on September 28, 2018.
- Attended National Post harvest & Logistics summit organised by Face and NCCD on September 25, 2018.
- Attended a seminar on 'Skill Enhancement and Entrepreneurship Development in Soy Food Processing' on August 07, 2018, New Delhi organised by AFSTI and USSEC (US Soybean Export Council).
- Attended seminar on 'Creating Awareness Among FBO's & SME's on Flavourings, Safety Evaluations of Flavours and Emerging trends in Food Flavourings Ecosystem' on June 05, 2018, FICCI, New Delhi.
- Attended a two day workshop on Sexual Harassment of Women at the Workplace (Prevention, Prohibition and Redressal) Act, 2013 on May 01-02, 2018 organized by ICC, Jawaharlal Nehru University, New Delhi.
- Attended a seminar on 'Recent Developments in Food Science and Technology for Better Nutrition' organized by ILSI, New Delhi, India on April 27, 2018.

Dr. Vandita Gupta

- Dr. Vandita Gupta mentored 4 students of B.Sc. (Hons.) III Year (2016-19), viz. Kinshuk Arora, Tanesh, Nikita Arya and Kanika Sindhi, to develop innovative baked multigrain vegetable nachos called Trios which was a great success. The team won I prize and achieved the DuPont Nutri Scholars cash award of Rs. 50,000/- in the 'Out of the Box' bakery innovation category.

Dr. Shalini Sehgal

- Invited talk on 'Probiotic Foods: Consumer Perception and Attitudes' at National Seminar on 'Probiotics: Ameliorating the Burden of Lifestyle Disorders' held on February 01, 2019 at Ram Lal Anand College, University of Delhi.
- Subject expert for review of MOOC courses by CEC for the subject of Food and Microbiology and attended the expert meeting on January 17, 2019.



- Contribution in the course development and design of PhD in Food Technology, IGNOU and attended the Expert Committee Meeting in IGNOU on January 05, 2019.
- Nominated as member of the Technical and Regulatory Affairs Committee of All India Food Processors Association, New Delhi and Chairman, Execution Committee of Platinum Jubilee Celebrations of AIFPA held on December 20-21, 2018 in New Delhi.
- Development of six online lecture tutorials (Module no. 23, 30, 34, 35, 37, 38) for M.Sc. Food Microbiology and Food Safety for the MOOC, SWAYAM portal.
- Recognized as a Supervisor to guide Ph.D. students by Faculty of Science, University of Delhi and registration of one student -Ms. Damini Soni.
- **Sehgal, S., & Dhewa, T. (2018).** Principles of hygiene and sanitation in food service establishment. E module content for PG-Food Microbiology and Food Safety (5147) Massive Online Open Course hosted on SWAYAM portal of MHRD, GOI.
- **Sehgal, S. (2018).** Use of predictive microbiology tools to assess microbiological risk associated with street foods’ accepted for the poster sessions of the FSSAI-ICMSF-CHIFSS International Symposium ‘Microbiological Food Safety: Sampling and Testing in Food Safety Management’ held on October 09-10, 2018 in New Delhi.
- **Sehgal, S. (2018).** Role of Consumers in Innovation of Novel Food and Beverages. In Panda, S. K., & Shetty, P. H. (Eds.). *Innovations in Technologies for Fermented Food and Beverage Industries* (pp. 289- 296) Springer International Publishing, New York. (ISBN: 978-3-319-74819-1 hardcopy/ISBN 978-3-319-74820-7 eBook).
- Member of the Steering Committee of CHIFSS and attended the 5th Steering Committee held on September 14, 2018, New Delhi.
- Expert Member on the Student Research Advisory Committee of School of Interdisciplinary Sciences and Technology, Jamia Hamdard, New Delhi.
- External Member of Area Advisory Board (AAB) of Amity Institute of Food Technology for the year 2018-2019.
- Invited lecture on ‘Design, Accommodation and Environment in a Food Testing Laboratory’ during the training on Good Food Laboratory Practices at Shri Ram Institute of Industrial Research, New Delhi on July 31, 2018.
- Attended Stakeholder Workshop with Academia-Industry-Alumni- for Curriculum Modification and Pedagogy Development at ICAR NDRI, Karnal from June 01-02, 2018.
- Resource Person for the induction training for Food Safety Officers of Manipur and other NE States training of Food Safety Officers at Imphal on May 14, 2018.
- Contribution in the development of PG Syllabus of Food Biotechnology of Ramnarain Ruia Autonomous College, Mumbai as a Subject Expert.

Dr. Eram S Rao

- Principal Investigator- Project- FSSAI – SNF (Safe and Nutritious Food) Fellowship Program - 2019
- President- Association of Food Scientist and Technologists of India, Delhi Chapter 2018-19
- Member- Editorial Board- Indian Food Packer 2018-19
- Member- Committee of Courses, BSc (H) Food Technology, Department of Home Science, University of Delhi - 2018-20



- Member- Doctoral Committee, Departmental Research Committee (DRC) Amity Institute of Food Technology, Amity University, NOIDA, UP- 2018-20
- Amritkar, N., Anand, D., Bhadri, A., Khaturia, A. K., Khanna, K., Krishnaswamy, S., **Rao, E.S.**, Roday, S., Sati, A., Sawarikaar, S., Singh, M., & Singh, N., (2018). **The Orange Book- Your guide for Safe and Nutritious Food at Workplace** (1stedition) FSSAI, New Delhi.
- **Rao, E.S.**, Roday, S., Kaul, N.B., Mathur, P., Raizada, P., Sinha, A., Gupta, R & Moghe, S.B., (2018) **The Yellow Book Level I, II- Safe and Nutritious Food at School** 1st Edition, FSSAI, New Delhi.
- Invited Speaker for Training Workshop on “Environmental Health in Disaster and Emergencies” on “Food & Water Safety during Disasters & Emergencies” at Vardhaman Medical College Safdarjung Hospital, New Delhi on 16 January 2019
- Invited Expert by IGNOU- FSSAI for the Interactive Radio Counselling Session on Gyan Vani on 5 January 2019 on the topic “Choice of Healthy & Safe Food”
- Invited to deliver the Public Lecture on “Safe and Nutritious Food” by FSSAI – ‘Eat Right Mela’ on - 14-15 December 2018
- Organized and participated as a President of AFST (I) Delhi Chapter ‘Food Safety Training Workshop for students’ at the CII Food Safety and Quality and Regulatory Summit on 14 December 2018, New Delhi.
- Conducted training of Food Safety Officer’s (FSSAI) for Govt. of Kolkata 10-11 Dec 2018 as a National level resource person for FSSAI.
- Attended National Conference on “Role of Probiotics in promoting healthy Microbiome for health and Immunity” on 6 December 2018, N Delhi.
- Invited Expert by IGNOU- FSSAI for the Interactive Radio Counselling Session on Gyan Vani on 1 December 2018 on “Disposal of used cooking oil- RUCO”
- Attended National Food Processing Conclave- Road map for Indian Food Processing Industry-2.0” on 30 November 2018
- Organized and participated as a President of AFST (I) Delhi Chapter National Seminar on World Food Day- 16 October 2018 on “Building Partnerships to achieve the Global Goal of # ZERO HUNGER”
- Invited guest by Doordarshan National on the occasion of World Food day- 16 October 2018 for a live telecast program on New Sankalp India.
- Delivered a special lecture on “Role of food scientists and technologists in achieving Zero hunger by 2030” on World Food Day on 15 October 2018 at Department of Food Technology, Jamia Hamdard
- Conducted a FOSTAC (Food Safety Training Accreditation and Certification) program for 95 Food Handlers of DU College Canteens and hostel messes on 29 September 2018 at BCAS, Dwarka as mandated by FSSAI.
- Attended National Conference on “Recent Innovations and Technological developments in Food Science & Technology” on 28 September 2018 at Amity University.
- Attended Face- CII “National Post Harvest and Logistics Summit” on 25 September 2018 New Delhi



- Participated as a Chairperson for the International Conference on “Recent Advances in Food Fortification with emphasis on Vitamin D Deficiency in human health” 15- 16 September 2018 at Jamia Hamdard University.
- Attended the International Conference on “Recent Advances in Food Fortification with emphasis on Vitamin D Deficiency in human health” 15- 16 September 2018
- Participated in the Release of Economic Intelligence Unit report on Fixing Asia’s Food System on 11 September 2018.
- Presented a Paper on “Innovation in Food Safety Manufacturing through three elements: Food Traceability, Compliance and Quality Control” at the Pre- Connect Congress on “Nutritional Science and Functional Foods” 28-29 August, New Delhi.
- Selected by the Malaysian Palm Oil Board for the 38th Palm Oil Familiarization Program at KL, Malaysia from 12-18 August 2018 and presented a paper on “Malaysian Palm Oil: The Indian Perspective”
- Participated and organized as a President AFST (I) a National Seminar on “Skill Enhancement and Entrepreneurship Development in Soy Food Processing” on 7 August 2018.
- Participated as a panellist in the Symposium on ‘Edible Oil Blends- The Indian Perspective’, on 28 July 2018, New Delhi.
- Participated in FSSAI-ReCHan Forum “Regulatory Approaches to the establishment of maximum levels in Health Supplements & Nutraceuticals.” on 25 July 2018, N Delhi.
- Participated in a seminar on “Creating awareness among FBO’s & SME’s on Flavourings, Safety Evaluations of Flavours and emerging trends in Food Flavourings ecosystem” on 5 June 2018, FICCI New Delhi.
- Invited as the AFST (I) President Delhi chapter by the Parliamentary Standing Committee of Rajya Sabha, to provide insights on the Functioning of Food Safety and Standards Authority of India (FSSAI) and on the efficacy of the existing food safety system in India on - 18 May 2018.
- Member- Vetting Committee for Guidance Document Workshop on 9 May 2018 at FSSAI, New Delhi.
- Attended ILSI- India Seminar on “Recent Developments in Food Science and Technology for Better Nutrition on 27 April 2018.
- Participated in “Workshop on GST” organized by AFST (I) Mysore, on 24 April 2018.
- Member- IGNOU Doctoral Committee meeting 20 April 2018
- Participated and Organised as President of AFST (I) Delhi Chapter, National conference on “Impact of Food Processing Sector on Indian Economy”- 13 April 2018
- Invited Expert by IGNOU- FSSAI for the Interactive Radio Counselling Session on Gyan Vani on 1 April 2018 on “Food Safety and Nutrition at School- 1”.

Dr. Meenakshi Garg

- **Garg, M**, Sadhu, S.D, Premlata, M. and Chopra R. (2019). Advances in Food Packaging. In Sharma, S., Aggarwal, M., & Sharma, D. (Ed). *Food Frontiers* (pp. 157-171), New Delhi Publishers, India. ISBN NO: 9789386453846.



- Attended one day CII-SKA- GSKCH- CIIF Training of Facilitators for Food Safety in Midday Meal Segment on December 28, 2018 at CII Head Office, New Delhi
- Attended Platinum Jubilee Conference of All India Food Processors' Association on December 20- 21, 2018, Vigyan Bhavan, New Delhi
- Attended 13th Food Safety & Quality Summit - Managing Product Integrity, Regulatory and Food Safety Solutions in the Food Chain for Consumer Health and Safety on December 13-14, 2018, New Delhi.
- Attended training on “Health and Wellness coordinator” on September 29, 2018 at Bhaskaracharya College of Applied Sciences, New Delhi.
- Attended International Conference on “Polymer Waste Management” on September 28, 2018 at India Habitat Centre, New Delhi.
- Presented a paper on “Preparation and Mechanical Properties of Vegetable Oil Based Polymer and PVA Blend” at the National Conference on New Trends in Nanotechnology and Application” on September 27-28, 2018, ARSD College, New Delhi.
- Attended 5 days Faculty Development Program in Shyama Prasad Mukherjee College (University of Delhi) from September 22-26, 2018.
- **Garg, M.**, Gupta, P., Sadhu, S. D., & Alam, T. Review of Current Issues on Plastic Banning- An Approach Towards the Solution for Consumer Plastic Food Packaging and Waste Management Model. *Processed Food Industry*, 2018 vol.9, pp 29-43.
- Sadhu, S. D., Premlata, M., & **Garg, M.** (2018). Nano-Separation Techniques For Water Resources. In Mishra, A. K., & Chaudhery, M. H. (Eds.). *Nanotechnology for Sustainable Water Resources*. (pp. 523-558), Scrivener Publishing, India. ISBN:9781119323655
- Sadhu, S. D., Kumar, A., & **Garg, M.** (2018). Major Environmental Issues & New Materials. In Mishra, A., & Chaudhery M. H. (Eds.). *New Polymer Nanocomposites for Environmental Remediation*, (pp. 77-98), Elsevier, UK. ISBN: 9780128110331

Dr. Roshan Lal

- Karmvnr, G., Ritika, B. Y., Baljeet, S. Y., & **Roshan L.** (2018). Physico-chemical, Textural and Crystallinity Properties of Oxidized, Cross-linked and Dual-modified White Sorghum Starch. *International Food Research Journal*, 25(5), 2104-2111.
- Sunil K., & **Roshan L.** (2018). Current Scenario and Future Draft for Healthy Indian School Canteen. *Indian Journal of School Health & Wellbeing*, 4(2), 61-69.
- Participated in Platinum Jubilee Conference of All India Food Processor Association held on 20th & 21st December, 2018 at Vigyan Bhawan, New Delhi.
- Presented poster on Paper entitled "Study on the Chemical and Microbiological Characteristic of Spiced Paneer of Different Formulation" at the International Conference on *Microbes for Biotechnological Innovations* (MBI- 2018) at M.D University, Rohtak , Haryana , India on 7th December, 2018
- Participated in Training on "Health and Wellness Coordinator" held on 29th September, 2018 held at BCAS, University of Delhi. Organizing partner FSSAI, AFSTI and HUL.



- Delivered expert lecture on "Promotion, Production, Storage, Prevention and marketing of Fruits and Vegetables" on 30th November, 2018 at Ministry of Child & Women Development Food & Nutrition Board, Extension Unit, Kidwai Nagar, New Delhi.

Dr. Tanya Luva Swer

- Presented a poster entitled "Application of anthocyanins extracted from *Prunu nepalensis* L. in food processing" on September 15-16, 2018 at International Conference "Recent Advances in Food Fortification with Emphasis on Vitamin D Deficiency in Human Health" held in Jamia Hamdard, New Delhi.

Students' Achievements

- Mr. Yaman Sharma, B. Sc. (H) IIIrd Year (2016-19) student has been awarded the merit cum means scholarship of Rs. 15000/- for undergraduate students of Food Science and Nutrition for the year 2018 by Protein Food and Nutrition Development Association of India, Mumbai.
- Ms. Deeba Zarin of B. Sc. (H) IIIrd Year (2016-19), Mr. Joyal James, Reyhana and Muhammad Kalid K. of B. Sc. (H) Ist Year (2018-21) have been selected for the CII-SKA Merit-cum-Means Scholarship for the year 2018-19 and will be receiving a sum of Rs. 25,000/- from CII-SKA.
- Ms. Priyanka Gupta received the IMS certificate of merit 2018 (New Delhi) after clearing the Scholarship Test 2018.
- Students from B.Sc. (H) Food Technology 1st and IIIrd Year has participated in "Eat Right Creativity Challenge" conducted during the Eat Right Mela organized by FSSAI on December 14-16, 2018, New Delhi.
- Mr. Krishna Kant Mathur of B. Sc (H) Ist Year (2018-21) had completed with distinction a four week online course in agMOOCs Functional foods: Concept, Technology and Health benefits by IIT, Kanpur and Commonwealth of Learning (19th November, 2018).
- Students from B. Sc (H) IIIrd Year (2016-19) has participated in FOSTAC Training on Food Safety and Hygiene organized on 29th September, 2018 coordinated by Dr. Eram Rao, President AFST (I)-Delhi Chapter in collaboration with Hindustan Unilever Ltd. And FSSAI.
- 35 students of B. Sc. (H) Food Technology Ist, IInd and IIIrd year have undertaken training in various reputed food industries and institutions during the summer and winter break in 2018.

Department of Human Communication

Departmental Activity

Department in collaboration with Department of Biochemistry organized a one-day workshop on "Stress and Coping: An Insight" on November 1st, 2018 for I semester students enrolled in. B.Sc. (H) Biomedical Sciences, Botany, Food- Technology and Microbiology.



Academic Achievements of the Faculty

Dr. Madhulika Bajpai

- Presented a paper in absentia, **Bajpai, M.** (2018). “Indian Lifestyle Interventions in Stress Management” in “International Conference on Stress Management (ICSM2018)” held at Hyderabad between November 11-12, 2018.
- Presented a paper, **Bajpai, M.** (2018). “Lifestyle Interventions in Stress Management: The Indian Way”. Paper presented in the Annual Second Fortis Annual Psychology Conference on "Situating Culture in Applied Psychology" held at Fortis Memorial Research Institute, Gurgaon between October 5-7, 2018.
- Participated in the Annual Second Fortis Annual Psychology Conference on "Situating Culture in Applied Psychology" held at Fortis Memorial Research Institute, Gurgaon between October 5-7, 2018.
- **Bajpai, M.** (2018). "Understanding your Adolescent", in *Art and Science of Parenting*, ed. Mishra, A. K. and Chadha, N. K. (A. K. Mishra's Art of Success Private Limited, India) 131 - 182. ISBN: 978-81-93-7852-0-1.
- **Bajpai, M.** (2018). "Effective Parenting Skills", in *Art and Science of Parenting*, ed. Mishra, A. K. and Chadha, N. K. (A. K. Mishra's Art of Success Private Limited, India) 131 - 182. ISBN: 978-81-93-7852-0-1.
- Associate Member (September, 2018-2023), International Stress Management Association (ISMA).
- Attended a one-day National Conference on “New India: Higher Education Strategy” organized by Dakshina Foundation in collaboration with Shiksha Sansthan Utthan Nyas, Bhartiya Shikshan Mandal and Indira Gandhi National Centre for Art held on April 13th, 2018 at Indira Gandhi National Centre for Art, Delhi.

Department of Instrumentation

Departmental Activities

- The ‘Sensors’ Society of the Department conducted an invited talk on ‘Introduction to Ultrafast and Ultrasmall Measurements’ by Dr. Mahesh Kumar, Senior Scientist, NPL on January 11, 2019 followed by an interactive session with some of the alumni of the Department.
- The Department organized a one day workshop on ‘Internet of Things’ in collaboration with DUCAT on January 10, 2019 under the Departmental Society ‘Sensors’.
- An inter-college quiz was also held on ‘Indian History with Essence of Ancient Science’ on October 05, 2018.
- The students visited Aimil Instrumentation & Technology and Excel Technologies on August 27, 2018 and September 19, 2018, respectively.
- The staff and students of the Department actively observed Swachhata Day on August 09, 2018 as a part of Swachhata Pakhwada, an initiative by Govt. of India.



Academic Achievements of the Faculty

Dr. Geeta Bhatt

- Presented an invited talk on ‘Lossy Mode Resonance (LMR) and its sensing Applications’ at the International Conference on Physics, Society and Technology organised by Department of Physics & IQAC, Deshbandhu College, University of Delhi during January 17-19, 2019.
- Rakesh, **Bhatt, G.**, Kumar, A., Kapoor, A. (2019) Enhancement of sensitivity in ZnO based refractive index sensor. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 48).
- Delivered a talk as resource person on ‘Gender Challenges among Minorities’ on January 19, 2019 in a Refresher Course in Gender Studies (IDC) organised by CPDHE (UGC-HRDC), University of Delhi during January 15, 2019 to February 05, 2019.
- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
- **Bhatt, G.** (Ed) (2018). *Triple Denial of Justice, Dignity and Equality*. New Delhi: Ram Communication. ISBN 978-93-84835-25-5.
- **Bhatt, G.** (Ed). (2018). *मैं भी नारी हूँ*. New Delhi: Ram Communication. ISBN 978-93-84835-26-2.
- Participated as Resource Person in the Faculty Development Program on ‘Environment Sustainability and Higher Education’ organized by Dyal Singh College, University of Delhi during June 04-11, 2018

Ms. Gurkiran Kaur

- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019

Ms. Shweta Dua

- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019
- Attended FDP cum workshop on ‘Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline Specific Teaching’ organised by Sri Venkateswara College, University of Delhi in collaboration with TROPICUS & IISER during October 13-14, 2018.

Dr. Anil Kumar

- Rakesh, Bhatt, G., **Kumar, A.**, Kapoor, A. (2019) Enhancement of sensitivity in ZnO based refractive index sensor. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 48)
- Kumar, M., **Kumar, A.**, Khanna, M.K., Kapoor, A (2019) Design of high extinction ratio TM pass polarizer using graphene based waveguide structure. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 44)
- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.



Mr. Pawan Kumar

- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
- Coordinator in the workshop on ‘Transforming Body & Soul through Yoga’ held on August 31, 2018 organised by Yoga Club & Department of Physical Education, BCAS.
- Attended a three day workshop on ‘Cyber Security’ organized by Department of Electronics under the aegis of DBT Star College Program held at Deen Dayal Upadhyaya College, University of Delhi during April 13-15, 2018.

Mr. Rakesh

- **Rakesh, Bhatt, G., Kumar, A., Kapoor, A.** (2019) Enhancement of sensitivity in ZnO based refractive index sensor. Paper Presented in the International Conference on Physics, Society and Technology organized by Department of Physics and IQAC, Deshbandhu College, University of Delhi during January 17-19, 2019.
- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019
- Member, Organizing Committee for Self Defence Training organized by Women Development Cell, BCAS held from July 02-12, 2018.
- Participated in the workshop on ‘VLSI Current Trends Using Mentor Graphics & Xilinx’ organized by Department of Electronic Science, University of Delhi, South Campus and CoreEL Technologies held on March 21-22, 2018.

Mr. Manoj Kumar

- **Kumar, M., Kumar, A., Khanna, M.K., Kapoor, A** (2019) Design of high extinction ratio TM pass polarizer using graphene based waveguide structure, Paper Presented in the International Conference on Physics, Society and Technology organized by Department of Physics and IQAC, Deshbandhu College, University of Delhi during January 17-19, 2019.
- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
- Attended a three day workshop on ‘Cyber Security’ organized by Department of Electronics under the aegis of DBT Star College Program held at Deen Dayal Upadhyaya College, University of Delhi during April 13-15, 2018.

Dr. Amandeep Kaur

- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019
- Organizing Member in Seminar on ‘Opportunities in Sciences, Challenges and Way Forward’ on October 5, 2018 at BCAS.



Mr. Basant Saini

- Participated in one day workshop on ‘Internet of Things’ organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.

Department of Mathematics

Departmental Activities

- ‘Click and Share’ Competition was conducted wherein students were encouraged to observe and discover the world around them, click a picture and share it along with mathematical concept that they see in it. Last date of submission was February 15, 2019.
- ‘Rangoli Designing Competition’ was held where students designed Rangoli using numbers, geometrical shapes and mathematical symbols. Last date of submission was February 15, 2019.
- Besides regular classes, Department conducted remedial classes to help students better their understanding of the syllabus. These classes were held for General elective Paper GE-1 (Calculus) for various courses of college on October 03, 2018 and October 15, 2018.

Academic Achievements of the Faculty

Dr. Ragini Jindal

- Participated in one day workshop on ‘Data Science with R Language’ conducted by Department of Computer Science, BCAS, University of Delhi (in collaboration with DUCAT) in the college on February 19, 2019.
- Participated in National level FDP on ‘Software Packages for Mathematical Sciences’ (Ministry of Human Resources Development Initiative under PMMMMNMTT) held at Hansraj College, University of Delhi from November 14-19, 2018.

Mr. Sanyam Gupta

- Participated in one day workshop on ‘Data Science with R Language’ conducted by Department of Computer Science, BCAS, University of Delhi (in collaboration with DUCAT) in the college on February 19, 2019.
- Presented paper titled ‘Optimal Investment Decision Model Based on Simplex Algorithm with Variable Optimal Value Evaluation Process’ at International Conference on Applied and Computational Mathematics-2018 on November 23-25, 2018 held at Indian Institute of Technology Kharagpur, India
- Participated in the ‘33rd Annual Conference of The Ramanujan Mathematical Society’ on June 1-3, 2018 at Department of Mathematics, University of Delhi, Delhi.



Department of Microbiology

Departmental Activities

- An Interdepartmental Doodle Art Competition was organized under the aegis of the star college scheme, DBT, Government of India, on February 04, 2019.
- First issue (November 2018 to January 2019) of wall exhibit ‘Microbe View’ on the theme ‘Advanced Techniques in Biological Sciences’ was displayed on January 30, 2019.
- An Interdepartmental Agar Art Competition was conducted by Sukshmjeev Society, Department of Microbiology on January 30, 2019.
- An Interdepartmental Essay Writing Competition was organised on January 10, 2019 on the topic ‘Advancement in Computer and Network Technology: Driving Progress in Scientific Fields’.
- A blog page of Department of Microbiology (Sukshmjeev Society) has been developed on November 03, 2018 to highlight the various activities of the department. <http://microbiologybcas.blogspot.com/?m=1>
- A debate competition on the topic ‘Genetically Modified Crops Cause More Good Than Harm’ was also organised on October 11, 2018, in association with the Debate Club. The session witnessed a healthy discussion and dialogue on the motion among students of different departments of the college.
- A lecture series on ‘Augmenting Curricular Concepts in Microbiology to Stimulate Young Minds: An Interdisciplinary Approach’ was initiated on October 11, 2018. The theme for part I of the lecture series was ‘Plant Microbe Interactions’ and the speakers were Prof. M.V Rajam and Dr. Jagreet Kaur from Department of Genetics, University of Delhi South Campus.
- In collaboration with Manipal Hospital (Dwarka, Delhi), the department observed World Rose Day for Cancer patients on September 24, 2018, with an aim to bring cheers to cancer patients and their caregivers. The students, faculty members and Principal Sir personally visited and greeted cancer patients with roses and handmade greeting cards in different cancer wards and day care sections. The physicians and other staff members of Oncology Department shared useful information on various improved screening and advanced therapies available for the cancer patients in hospital.
- The department undertook swachhata drive on August 10, 2018. The drive included a session apprising student about the responsibilities of lab members to work in compliance with standard lab practices. The students and staff of the department actively participated in the same.
- The students of B.Sc. (Hons.) Microbiology II year visited Pathkind labs, a diagnostic laboratory to get an insight into automation in diagnostics on April 21, 2018.
- A trip to IIT Delhi was organized on April 21, 2018 during the IIT Delhi Science festival, so as to provide the students an exposure to indigenous research and technologies.
- A National Conference on ‘Advances in Interdisciplinary Microbiology: Perspectives from Academia and Industry’ as part of the annual festival of the Department, MICROQUEST was organized on March 13-14, 2018. The conference included talks from various Stalwarts of the field from both academia and industry and a number of fun-filled student activities like Quiz Micrologique, Prescott’s Microacts, Bergey’s Micromelodies and poster making competition. The conference was attended by more than 200 delegates. There was a session for presentation of Research posters too. Proceedings of the Conference and the annual Departmental Magazine ‘Life Under Lens’ were also released on the occasion.



Academic Achievements of the Faculty

Dr. Vijay K. Nalla

- **Nalla, VK.**, Chauhan, N., Sharma, B., Bhatt AK., Ganti, P. (2019). Microbial contaminants in commercial beverages: health concerns and suggestive preservative methods. *Research and Reviews: A Journal of Microbiology and Virology*, 9(1), 1-9.
- Manchanda, T., Tyagi, R., **Nalla, VK.**, Chahar, S., Sharma, DK. (2018). Power generation by algal microbial fuel cell along with simultaneous treatment of sugar industry wastewater. *Journal of bioprocessing and biotechniques*. 8(3), 1000323, doi 10.4172/2155-9821.1000323.
- Honoured with Dr. Radhakrishnan Gold medal award -2018 by Global Economic Progress and Research Association (Society registration no. 283, ACT XXVII of 1975), Tamil Nadu, India, on September 22, 2018.
- Attended two day workshop on 'Intellectual Property Right' on September 13-14, 2018, organized by Institute of Home Economics.
- Participated and presented a research paper on 'Fungal Pathogenesis' in Indo Caribbean Conference held on July 18-19, 2018 organized by Shriram College of Pharmacy, Madhya Pradesh Council of Science and Technology.
- Invited as content writer and expert committee member for B.Sc. Biochemistry at Indira Gandhi National Open University (IGNOU) for the year 2018-19.
- Guided Ms. Monika Pakalapati, M.Sc. student from GITAM University, Vishakhapatnam for a project work entitled 'Preparation of a Microbial Consortium Towards Degradation or Deterioration of Synthetic Polymers and Application in Environmental Biotechnology' for the award of Master of Science in Biotechnology in 2018.

Dr. Ruchi Gulati Marwah

- Attended Faculty Development Programme cum Workshop from October 13-14, 2018 on 'Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching' organized by IQAC, Sri Venkateswara College, University of Delhi.
- Participated in a Refresher Course in Life Sciences from July 17, 2018 to August 06, 2018 organized by Centre for Professional Development in Higher Studies (CPDHE), University of Delhi.
- Resource Person in two day Faculty Development Programme 'Industrial and Environmental Microbiology' held on March 19-20, 2018 at Daulat Ram College, University of Delhi.

Dr. Neha Bansal

- Attended Faculty Development Programme cum Workshop from October 13-14, 2018 on 'Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching' organized by IQAC, Sri Venkateswara College, University of Delhi.
- Resource Person in two day Faculty Development Programme 'Industrial and Environmental Microbiology' held on March 19-20, 2018 at Daulat Ram College, University of Delhi.



Dr. Ratyakshi

- **Nain, R.**, Dobhal, S., Bidaliya, P., Saini, G., Pani, B., & Sirohi, S. (2018). Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis. *RSC Advances*, 8(36), 20287-20294.
- Sirohi, S., Dobhal, S., Doshi, M., **Nain, R.**, Dutt, K., & Pani, B. (2018). Eco-friendly synthesis of PET-based polymeric plasticiser and its application in nitrile-PVC rubber blends. *Indian Chemical Engineer*, 1-12. doi.org/10.1080/00194506.2018.1529635.

Department of Physics

Departmental Activities

- A seminar was organized on February 18, 2019. The speaker was Dr. R. K. Shukla, Professor, University of Lucknow. He spoke on 'Optical Fibre' and approached the topic very physically and made it easy enough for students of non-physics background to understand it.
- To understand more from nanophotonics, a talk on February 12, 2019 entitled 'Silver Nanowire- An Optical Angular Momentum Sensor' was delivered by Mr. Deepak Kumar Sharma (an alumni of our college), PhD student, IISER Pune.
- Students of V semester of B. Sc. (Hons.) Physics went for an educational visit on October 25, 2018 to Solid State Physics Laboratory (SSPL-DRDO, New Delhi) which has primary research in the field of Solid State Materials, Devices and Sub-systems.
- A visit was organized to CSIR-NPL on September 28, 2018 to update their knowledge about new technologies and sophisticated characterization instruments used for nanoscience and nanotechnology.
- For a glimpse of latest research in nanophotonics, students interacted with Mr. Abhai Kumar scientist, DRDO Kanpur delivered a talk on September 14, 2018.

Academic Achievements of the Faculty

Dr. Anand Bharadvaja

- Abstract accepted for poster presentation at 13th Asian International Seminar on Atomic and Molecular Physics held at Mumbai, India from December 03-08, 2018.
 - a) **Bharadvaja A.**, Kaur S. and Baluja K. L. (2018) 'Elastic and total cross sections for electron scattering from fluorocarbons'. (P80)
 - b) Kaur. S., Baluja K. L., Singh J. and **Bharadvaja A.** (2018) 'Vibrationally resolved excitation cross sections of All(+) by electron- impact using R-matrix'. (P79)

Students' Achievements

- Shakti Singh, a student of B.Sc. (Hons.) Physics 2nd Year, has qualified for Inspire Scholarship offered by Government of India. The duration of scholarship is for five years.
- Alex Kumar Singh and Ashutosh Shukla, students of B.Sc. (Hons.) Physics 3rd Year, secured II position in the event of PICTOGRAM in the annual inter-college Physics Fest, FEYNMANIA, on March 27-28, 2018 organized by ARSD College.



- Alex Kumar Singh and Ashutosh Shukla, students of B.Sc. (Hons.) Physics 3rd Year secured I position in the event of INQUIZITIVE in ASTRODROID in 2018-19 organized by PHYSCOM Society at Kalindi College, University of Delhi.

Department of Polymer Science

Departmental Activities

- Department of Polymer Science (PEARLS) organized departmental festival ‘CROSSLINK-2019’ on January 21, 2019.
- The department released Departmental Magazine ‘BAHULAK’ Vol. 1, on October 29, 2018.
- PEARLS Society organized Industrial Talk entitled ‘The Plastic Industry-Unfolded’ on October 29, 2018 in which eminent speakers from various industries (Mr.Varun Gupta, Technical head, Pluss Polymers; Mr.Vinod Fotedar, Director, Elephant Energy Pvt. Ltd.; Mr. Kailash Pandey, Business Development Manager, Shriram Axiall) were present.
- Mr. Sachin Kumar Prajapati, B.Sc. (Hons.) 3rd Year Polymer Science Student prepared an aeroplane model in association with R. S. Bhatnagar & sons during his summer internship in the period June 06, 2018 to July 19, 2018 and was donated to Bhaskaracharya College of Applied Sciences on October 29, 2018.
- Students visited along with faculty members at the International Conference on ‘Polymer Waste Management’ on September 28, 2018 at India Habitat Centre.
- Students visited along with faculty members to University Science Instrumentation Centre (USIC) North Campus, University of Delhi on September 06, 2018.
- Department of Polymer Science organized a Swacchata Drive in department on August 09, 2018.

Academic Achievements of the Faculty

Dr. S. K. Shukla

- Singh P., **Shukla S. K.** “Opto-Chemical Glucose Sensing Over NiO/polyaniline Hybrid Matrix Using Optical Fiber Approach”. *Optik*; 2018, 165, 94-101.
- Singh P., Kushwaha C. S., **Shukla S. K.** and Dubey G. C., ‘Synthesis and Humidity Sensing Property of α -Fe₂O₃ And Polyaniline Composite’ *Materials Today: Proceedings*; 2018, 5, 9118-9125.
- Shukla S. K., Kushwaha C. S., **Shukla S. K.**, Dubey G. C., ‘Integrated Approach for Efficient Humidity Sensing Over Zinc Oxide and Polypyrrole Composite’. *Materials Science & Engineering C*. 2018, 90, 325-332.
- Singh P., Kushwaha C. S., **Shukla S. K.** and Dubey G. C., ‘Synthesis and Humidity Sensing Properties of NiO Intercalated Polyaniline Nanocomposite’. *Polymer-Plastics Technology and Engineering*. Taylor & Francis; 2018, 58(2), 139-147.
- Kushwaha C. S., Singh P., **Shukla S. K.** and Dubey G. C., ‘Electrochemical Urea Sensing Over Polyaniline Grafted Chitosan Copolymer’. *Materials Today: Proceedings*; 2018, 5, 15253-15260.



- Barak A., Gangwar V. D., **Shukla S. K.**, ‘Development and Characterization of Polyvinyl Chloride-Graphite Membrane’. Indian Journal of Chemical Technology (IJCT); 2018, 25(2), 196-200.
- Invited talk in the National symposium on Advanced Materials Science held from December 07– 08, 2018 at Deen Dayal Upadhaya Gorakhpur University.
- Invited talk in the National Conference on Materials and Devices (NCMD-2018) held from July 31, 2018 to August 01, 2018 at Sharda University, Greater Noida.
- Expert lecture in the Department of Applied Chemistry (DTU), TEQIP-III sponsored one-week faculty Development Program June 04–08, 2018 at DTU, Delhi.
- Guest Editor, “Materials Today: PROCEEDINGS” (Elsevier); 10th National Conference on Solid State Chemistry and Allied Areas, Vol.5, Issue. 7P2 (2018).
- Contributed a chapter entitled ‘Polymer-Based Catalysts for Water Purification: Fundamentals to Applications’ Polymeric Materials for Clean Water, Springer Series on Polymer and Composite Materials; https://doi.org/10.1007/978-3-030-00743-0_6.

Dr. Sidhharth Sirohi

- Surah S.S., Vishwakarma M., Kumar R., Nain R., **Sirohi S.**, ‘Tuning the Electronic Band Alignment Properties of TiO₂ Nanotubes by Boron Doping’. Results in Physics, 2019, 12, 1725-1731.
- **Sirohi S.**, Dobhal S., Doshi M., Nain R., Dutt K., Pani B., ‘Eco-Friendly Synthesis of PET based Polymeric Plasticizer and its Application in Nitrile-PVC Rubber Blends’. Indian Chemical Engineers (October 2018) DOI: 10.1080/00194506.2018.1529635 (Taylor & Francis Publication), ISSN: 0975-007X (Online), 0019-4506.
- **Sirohi S.**, Jassal M., Agrawal A. K., ‘Surfactant-Free Nanoencapsulation Using Reactive Oligomers Obtained by RAFT Polymerization of Styrene and Maleic Anhydride’. Applied Nanoscience (July 2018) (DOI:10.1007/s13204-018-0845-2 (Springer Publication), ISSN: 2190-5517 (Online), 2190-5509.
- Nain R., Dobhal S., Bidaliya P., Saini G., Pani B., **Sirohi S.** ‘Ag Decorated Silica Nanostructures for Surface Plasmon Enhanced Photocatalysis’. RSC Advances 2018, 8, 20287-20294.
- Attended UGC sponsored Short Term Course on Disaster Management from December 17-21, 2018 at Jawaharlal Nehru University, Delhi.

Dr. Susmita Dey Sadhu

- Sharma, R., Jain, P. & **Dey Sadhu, S.**, ‘Study of Morphological and Mechanical Properties of PBT/PTT Blends and Their Nanocomposites and Their Correlation’. Arab J Sci Eng (2018), Page 1-14, ISSN: 2193-567X (Print) 2191-4281 (Online).
- Contributed a chapter entitled ‘Major Environmental Issues & New Materials’ **Dey Sadhu, S.**, Kumar. A., and Garg, M. In the book entitled ‘New Polymer Nanocomposites for Environmental Remediation’ by Elsevier, 2018. eBook ISBN: 9780128110348.
- Contributed a chapter entitled ‘Advances in Food Packaging’ In the Book ‘Food Frontier’ by New Delhi Publisher (2019). ISBN No. 978-93-86453-84-6.



- Garg, M., Gupta, P., **Dey Sadhu, S.** and Alam T. ‘Review of Current Issues on Plastic Banning-An Approach Towards the Solvation for Post-Consumer Plastic Food Packaging and Waste Management Model’; Processed Food Industry, September 2018, (page 29-33).
- Attended 5-day Faculty Development Program in Shyama Prasad Mukherjee College, University of Delhi from September 22-26, 2018.
- Presented paper in, “New Trends in Nanotechnology and Application”. NTNA-2018 at ARSD, University of Delhi from September 27-28, 2018.
- Coordinator, Editorial Team of the Departmental magazine ‘Bahulak’ of the volume 1, 2017-18.

Dr. Anil Barak

- **Barak A.**, Gangwar V. D., Shukla S. K., ‘Development and Characterization of Polyvinyl Chloride-Graphite Membrane’ Indian Journal of Chemical Technology (IJCT); 2018, 25(2), 196-200.
- Poster presentation on ‘Simultaneous Extraction of Nano Size Cellulose and Silica From The Rice Husk’ in National Seminar on ‘New Trends in Nanotechnology and Applications’ NTNA-2018 at Atma Ram Sanatan Dharma College, University of Delhi on September 27-28, 2018.
- Attended National Conference on Materials and Devices (NCMD-2018) held from July 31, 2019 to August 01, 2018 at Sharda University, Greater Noida.
- Member, Editorial Team of the Departmental magazine ‘Bahulak’ volume 1, 2017-18.

Dr. Krishna Dutt

Sirohi, S., Dobhal, S., Doshi, M., Nain R., **Dutt K.**, Pani, B., ‘Eco-Friendly Synthesis of PET based Polymeric Plasticizer and its Application in Nitrile-PVC Rubber Blends’ Indian Chemical Engineers (October 2018) DOI: 10.1080/00194506.2018.1529635 (Tylor & Francis Publication), ISSN: 0975-007X (Online), 0019-4506.

Students’ Achievements

- Ms. Neema Kushwaha, Ms. Nidhi Bijalwan and Mr. Shantanu Pandey, students of B.Sc. (Hons.) Polymer Science III Year received the ‘Best Paper Award’ at the National Conference on New Trends in Nanotechnology and Application held on September 27-28, 2018 at ARSD College, New Delhi. The award was given for research work entitled ‘Preparation and mechanical properties of vegetable oil based polymer and PVA blend’ done by above students under guidance of Dr. Susmita Dey Sadhu and Dr. Prem Lata Meena.
- Mr. Parth Bidaliya and Mr.Saiyam Dobhal, students of B.Sc. (Hons.) Polymer Science III Year received the ‘Best Poster Award’ at the 7th National Symposium on Advances in Chemical Sciences organized by the Department of Chemistry, Guru Nanak Dev University, Amritsar (Punjab) held on March 26-27, 2018. The award was given for research work entitled ‘Biodegradable and printable polyester films’ done by above students under guidance of Dr. Sidhharth Sirohi.
- Mr. Avinash Sandilya, B.Sc. (Hons.) Polymer Science III Year, received Best Student Award (Male Category) of Bhaskaracharya College on annual day held on March 23, 2018.



Department of Zoology

Departmental Activities

- The Department in collaboration with Department of Biochemistry organized a one day seminar on ‘Neuroplasticity: Role in Learning, Memory and Spinal Injury’ on February 20, 2019. The seminar also conducted a poster presentation competition on the topic “Landmark Achievements in Neuroscience”
- An outreach initiative was taken by department in collaboration with Department of Biomedical Sciences and Department of Biochemistry of BCAS wherein a ‘one day workshop on Foldscope’ was conducted at the Department of Biomedical Science of Acharya Narendra Dev College on February 02, 2019.
- In collaboration with Department of Biochemistry, the department organized its first zoological annual fest ‘ZOOSANGAM’ on January 18, 2019 under the umbrella of zoological society ‘ERANKO’. The festival conducted various scientific as well as fun-filled activities.
- The Department organized a field trip for B.Sc. (Hons.) Zoology first year students to the National Zoological Park, Mathura Road, Delhi on October 11, 2018, as a part of the practical syllabus of their core paper ‘Principles of Ecology’.
- The Department organized a one-day visit to Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET) and Central Instrumentation Facility (CIF) of University of Delhi South Campus (UDSC) for students of B.Sc. (Hons.) Zoology second year on October 11, 2018.

Academic Achievements of the Faculty

Dr. Anjali Saxena

- Participated as resource person in ‘one day workshop on Foldscope’ conducted by the Department of Biomedical Science of Acharya Narendra Dev College on February 02, 2019.

Dr. Pallee Shree

- Participated as resource person in ‘one day workshop on Foldscope’ conducted by the Department of Biomedical Science of Acharya Narendra Dev College on February 02, 2019.

Dr. Reetuparna Basak

- Registered as the Life Member of Indian Society for Comparative Endocrinology (ISCE, registration number S/47554).

Students’ Achievements

- Sidhant Tomar and Pratiksha from B.Sc. (Hons.) Zoology second year won II prize for their poster entitled ‘Place Cells’ in poster presentation competition for the topic ‘Landmark Achievements in Neuroscience’ in the seminar entitled ‘Neuroplasticity: Role in Learning, Memory and Spinal Injury’ organized by Department of Zoology in collaboration with Department of Biochemistry on February 20, 2019.



- Manish, Ishika and Khushboo of B.Sc. (Hons.) Zoology first year participated as resource person in a ‘one day workshop on Foldscope’ conducted by the Department of Biomedical Science of Acharya Narendra Dev College on February 02, 2019.
- Six students of B.Sc. (Hons.) Zoology second year (Shweta, Anjali, Neha, Shirin, Varsha and Sushma) have been selected for research internship in a DBT-funded project at Department of Zoology of Shivaji college, University of Delhi.
- The Department is proud to mention that one of the students of its first academic batch (2017-18), Sushma Yadav has secured the 5th University Position in B.Sc. (Hons.) Zoology Part I Examination (academic session 2017-18) with 9.41 CGPA.

The Library

Growth in Collection of the Library

Library has a collection of 25737 volumes of books (as on 18-02-19) including reference books, 336 bound volumes of journals and many CDs/DVDs. Apart from the regular subscription to some journals, the library, this year, has renewed its subscription to N-LIST (National Library and Information Services Infrastructure for Scholarly Contents) program of INFLIBNET. This has provided the facility to access a large number of e-resources to the students and staff throughout the year 24X7.

During the year 2017-18, 16 books (out of 510) were withdrawn and written off the Library stocks.

Implementation of KOHA

The library had successfully migrated from LSEase (LibSys) Library Management Software to KOHA – An Open Source Software for Library Management in January 2017. This year we have been able to develop many KOHA utilities to customize to software so that the LMS meets our specific demands. In order to make our databases more retrievable, the library is continuing with inserting keywords to the existing database. An orientation program on KOHA was organized for students as per the schedule below

S. No.	Department	No. of Students	Held on
1	Physics	35	06-08-2018
2	Electronics	18	06-08-2018
3	Instrumentation	17	06-08-2018
4	Biomedical Science	14	06-08-2018
5	Microbiology	16	06-08-2018
6	Computer Science	11	06-08-2018
7	Botany	35	07-08-2018
8	Zoology	16	07-08-2018
9	Chemistry	12	07-08-2018
10	Polymer Science	35	07-08-2018
11	Food Technology	13	07-08-2018



Footfall, Circulation and Overdue Charges

Library Footfall (July 2018 to 15 February 2019)	20977
Library Circulation - Issue (July 2018 to 15 February 2019)	7402
Library Circulation - Returned (July 2018 to 15 February 2019)	6891
Collection of Overdue Charges (1 April 2018 to 15 February 2019)	Rs. 26030

Library Orientation Programme

Library organized an Orientation program for all the students of first year on 20 July 2018. Students were oriented towards library for its collection, services, facilities etc. in batches. The Orientation program included an introductory lecture from the librarian and a visit to OPAC and stack racks.

Library Blog

The Library Blog is being updated time to time which is being followed by 58 followers. Ever since the start of the blog, 37796 pageviews (as on 14 January 2019, 1530 hrs.) have been recorded from various parts of the globe including

Country	No. of Visitors
India	27107
United States	2928
Russia	1222
France	661
Germany	651
Ukraine	470
Brazil	238
United Arab Emirates	219
Poland	177
Japan	128

Library Training

Library training is being imparted to students of Library and Information Science almost every year. This year one student Ms. Rakhi Shirdhonkar is being given the library training

Future Plans

- Self-check-in/ check-out system.
- Library Air conditioning System
- Design and develop an Institutional Repository of the college using DSpace.



Sports

(Convener: Dr. Siddharth Sirohi)

Our college students participated in various sports events organized by University of Delhi and other organizations.

Achievements

- Department of Physical Education organized inter-departmental sports activities throughout the year namely Cricket, Basketball, Volley Ball, Badminton Singles, Badminton Doubles, Table Tennis Singles, Table Tennis Doubles, Chess, Kabaddi for boys and girls. Nishant Sindhu, B.Sc. (H) III year was awarded a trophy of ‘Outstanding Sports Person’ and a cheque of Rs. 10,000/- on Annual Sports Day. Annual Sports Day was celebrated on January 23, 2019 in college sports ground. The Guests of Honors were Ms. Bhavna Gaur, Local MLA and Mr. Guneesh Agrawal, Chairperson, Governing Body, BCAS.
- Nishant Sindhu of B.Sc. (H) III year, Department of Electronics won Gold Medal in 10 meter Air Rifle/Air Pistol (M & W) Inter College Shooting Championship 2018-19 organized by University of Delhi held at Hansraj College from October, 11-13 2018.
- Nishant Sindhu of B.Sc. (H) III year, Department of Electronics won Silver Medal in 10 meter Air Pistol-Men (Team Event) in All India Inter University Shooting Championship (2018-19) held at Guru Nanak Dev University, Amritsar on November 06, 2018.
- Nishant Sindhu of B.Sc. (H) III year, Department of Electronics won Gold Medal in 62nd National Championship Competitions (NSCC) in 50 meter Pistol Junior Men (Team Event) on December 3, 2018.

College Activities

Activities Organized by Various Committees

Alumni Committee

(Convener: Dr. Vandana Batra)

- The Alumni Committee organized Alumni Meet-2018 on January 18, 2019 in the college premises. The program started with invoking blessings of Goddess Saraswati. In the inaugural address, the Principal emphasized the importance of alumni’s participation in the progress of an institution. Alumni remembered their sweet and sour memories of their college time during alumni interaction. All the alumni who had participated in this event were felicitated. Around 100 people including 22 alumni attended the event and the alumni resolved to actively participate in various activities relating to growth and development of the college.
- Each year college felicitates an alumnus with Distinguished Alumni Award based upon the Excellence in Academic / Research / Corporate / Industry or Government and Defense services or Public Administration or Entrepreneurial venture or Art/Culture/Sports or service to the society at large. This year Distinguished Alumni Award -2018 is given to Mr. Amit Verma (from the Department of Electronics, batch 2000-03) for his excellent work in Entrepreneurial venture.



Automation & Digitization Committee

(Convener: Dr. Avneesh Mittal)

Following activities were carried out by the committee in order to upgrade the different tools of the Integrated College Management System (ICMS) as well as to create awareness about the same amongst users.

General Elective (GE) Segregation

The committee devised a mechanism to allot General Elective (GE) preference to students based on the “**Merit cum Preference**”. The system segregation not only helped to ensure complete transparency of the process but also brought down the manual effort by generating GE lists automatically.

Budget

- An online module for budget was designed with an upper limit for each category.
- Printable format is also made available for the concerned Teacher-in-charges/Procuring Officers.

Time Table

- The online module for time-table was upgraded to generate and mail pdfs of different formats as per the requirement.
- Any kind of mismatch between the workload and timetable can now be readily checked and modified.
- Time-table can be easily updated at all times and error if any occurs is reported immediately.
- The module also highlights availability of room as well as slots in an easy glance.

Attendance Module

- Two workshops were conducted to introduce and ease the process of “handling digital attendance” for the faculty teaching at BCAS:
 - “Handling the Digital Attendance Module”, August 30, 2018
 - “Handling Errors in the Digital Attendance Module”, Jan 18 2019

Besides these workshops, a feature of name stamp is made available for each individual teacher, at the time of submitting attendance to facilitate maintenance of proper records as well as identifying errors, if any.

Mentoring System

A feature is made available to the convener to manage the allotted mentees by the TICs.

Central Purchase Committee

(Convener: Dr. Avneesh Mittal)

- The college has been registered under GeM as a “Buyer”. 44 users were added with 24 Divisions on the portal. Procurements have been made as per GFR 2017. Nearly ₹81 Lakhs were disbursed for Capital Asset to departments as per the Grants received from DHE including a grant of more than 8L exclusively for sports facility in the campus. Orders worth Rs. 1622395.01 have already been executed only through GeM.
- Along with GeM, the college is also started using CPP portal for e-procurements. Tenders were floated on this portal and orders have been placed since 2017-18.

Extra-Curricular Activity (ECA) Committee

(Convener: Mr. Ramesh Kumar)
(January 2019 onwards)

- ECA committee and Students Advisory & PR Committee jointly organized the annual cultural festival, SRIJAN-2019 between February 28-March 1, 2019. In the inaugural ceremony chief guest Shri. Parvesh Verma (Member of Parliament, West Delhi) boosted the



spirit of the students with his encouraging words. The festival hosted various events and competitions such as battle of bands, solo dance, group dance, drama, MTV Roadies, 9Xm night, street play to name a few. Numerous students from different colleges of different academic institutions participated in the festival with great enthusiasm. Bollywood singer Mr. N. S. Chauhan was the guest performer for the “Star-Night” of SRIJAN-2019. This edition of the festival was again a huge success.

- ECA committee organized a celebratory program on the occasion of Republic Day. The Principal ceremoniously hoisted the flag and addressed the students highlighting the importance of the event. Students from different clubs and cells participated and presented songs and dance performances on patriotic themes.

Gender Sensitization Committee

(Convener: Dr. Rizwana)

- A slogan writing competition on ‘Changing Opinion about Gender’ was held on January 21, 2019.
- A poster-making competition on ‘Gender Inequality’ and collage-making competition on ‘Spectrum of Gender’ were held on September 24, 2018.
- A short-talk competition on ‘Need of Gender sensitization’ was held on August 29, 2018 to select “Gender Champions” of the college.

Student Advisory and PR Committee

(Convener: Dr. Pawas Goswami)

- Student Advisory Committee facilitated the organization of ‘TVF Digital Sensation Ki Khoj’ and ‘Deepotsav-2018’ on February 12, 2019 and November 2, 2018 respectively. You Tube stars Mr. Harshvardhan and Mr. Abhishek Walia participated in the ‘TVF Digital Sensation Ki Khoj’. In ‘Deepotsav-2018’ various competitions such as dance, singing, rangoli making and PUBG were held, students also prepared a map of India by lighting earthen lamps
- ‘Presidential Debate’ was organized by the student advisory committee on September 7, 2018.
- At the start of academic session, student advisory committee organized orientation program for the first-year students on July 20, 2018.
- The committee in close association with election committee conducted Bhaskaracharya Student Association Election 2018.

Swachhata and Waste Management Committee

(Convener: Dr. Sushmita Dey Sadhu)

Swachhata and Waste Management Committee looks after the cleanliness of the college building and campus. The college has a contract with M/s. SMS watergrace BMW Pvt Ltd for the collection of biomedical waste. The organic waste/ green waste is composted. The chemical waste is diluted and disposed.

The committee organised the following events:



- A training on ‘Biomedical Waste’ was organised on 19th July 2018 at BMS lab. Mr. Amit Singh was the trainer from M/S. SMS Water Grace BMW Pvt. Ltd. 16 Lab staff from six departments (Biomedical Science, Microbiology, Biochemistry, Food Technology, Zoology and Botany) attended the training program. Knowledge and hazards related to handling of biomedical waste and the precautionary measures were discussed.
- One Day Workshop on Waste Management and making of compost was organised by Department of Food Technology, BCAS, Recycling & Waste Management Committee and Garden Committee on 28th Nov. 2018. Mrs. Manisha from Hara Jeevan NGO delivered lecture on waste management procedure and then demonstrated the composting technique. Thus compost pit was also prepared.
- Cleanliness drive was observed by all the departments in the college during Swachhata Pakhwada (August 6-11, 2018). All the faculties, students and staff took active participation in the swachhata drive. All the labs, staff rooms, cupboards etc. of the lab and departments were cleaned and organised.

Website Committee

(Convener: Dr. Ragini Jindal)

- Website Committee organized a very informative and useful visit to the Cyber Prevention, Awareness & Detection Centre (CyPAD) of Delhi Police and National Cyber Forensic Lab, MHA during their inauguration on February 18, 2019 at Sector 16, Dwarka, Delhi. These were inaugurated by the Union Home Minister Shri Rajnath Singh who apprised about the several steps initiated by MHA in the last more than four years to deal with cybercrimes. The Lt. Governor of Delhi, Shri Anil Baijal and Delhi Police Commissioner Shri Amulya Patnaik also spoke on the occasion.

Activities Organized by Various Cells

Anti-Tobacco Cell

(Convener: Dr. Krishna Dutt)

- Anti-Tobacco Cell organized one-hour awareness-cum-sensitization session on ‘Role of Emotional Stability in Addictions’ on October 4, 2018 at 2:30 pm in the college premises. The program started with the inaugural speech by the Principal followed by a lecture. In program, Dr. Sachin Parab (MBBS, Joint Secretary of Medical Wing of Raja Yoga Education & Research Foundation) delivered talk and shared his significant views on negative effects of tobacco, drug etc. and the importance of deaddiction.
- Anti-Tobacco Cell organized a lecture on ‘Tobacco Free Campus’ on August 30, 2018 at 2:00 pm in the college premises. The program started with the inaugural speech by Dr. Siddharth Sirohi (Bursar, BCAS). In this program, Dr. Saurabh Sachar (MBBS, MD Radiodiagnosis), Senior Resident, Radiodiagnosis, Safdarjung Hospital, Delhi delivered a talk and shared his views on harmful effects of tobacco. An Anti-Tobacco Pledge was also taken by participants.



Bhaskaracharya Cell

(Convener: Mr. Sanyam Gupta)

- The Cell organized, ‘Bhaskaracharya Week-2019’ from January 28-February 2-2019 in collaboration with Ethiccraft Club. During this week 7 Sessions on ‘Vedic and Value Based Knowledge’ were organized. Brief description is mentioned:
 - First session was delivered by HG Sundar Gopal Das (M.Tech, IIT Delhi & President Ethiccraft Club) on ‘Extracts from the Life of Bhaskaracharya’ and this session was attended by more than 80 students along with faculty members.
 - Second session conducted by Mr. Shivanshu Singh (Vice President, Ethiccraft Club) on ‘Ethics from Epics’ and this session was also attended by more than 80 students along with faculty members.
 - Third session was delivered by HG Amoghilila Das (Vice president, ISKCON, Dwarka) on ‘Unravelling the Glorious Ancient Indian Education’ and this session was attended by more than 140 students along with faculty members.
 - Fourth session was conducted by Dr. Abhinav Grover (Assistant Professor, JNU) on ‘Secrets of Success’ and the session was attended by more than 129 students along with faculty members.
 - Fifth session was a talk by Mr. Deepak Meena (Alumnus of IIT Delhi) on ‘Science and Spirituality’ and this session was attended by more than 100 students along with faculty members.
 - Sixth session was delivered by Mr. Arvindaksha Madhav Das (Alumnus of Aeronautical Society of India) on ‘Life on Two Wheels’ and this session was attended by more than 100 students along with faculty members.
 - The last and seventh session was delivered by HG Sundar Gopal Das (M. Teach, IIT Delhi & President Ethiccraft Club) on ‘Wake Up Indians-Discover Your Glories (Science)’ and this session was also attended by more than 100 students along with faculty members.
- A quiz competition was organized on ‘Building India Upon Values’ on September 7, 2018 in collaboration with ‘ISKCON Youth Forum’. Winners were awarded prizes in the mega festival ‘UDGAAR’.

Career Counselling Cell

(Convener: Bhavya Deep)

- The Career Counselling Cell organized a session on ‘Higher Education Opportunities in Abroad’ on September 28, 2018 in the college. Mr. Atul Gupta, Product Head at TIME Education, in his talk, presented a brief introduction to career planning, its need and impact of improper career planning in students’ life. The session gave exposure to various overseas career opportunities like MS in IT, financial marketing, public health or choosing research as career. The session also provided comprehensive guidance to students for planning their career wisely. The session was a great success and well appreciated by the college.

Gandhian Study Centre

(Convener: Dr. Inderbir Kaur)

- An inter-college quiz competition was organized on February 01, 2019. Students enthusiastically participated in the quiz competition.
- Gandhian Study Centre in collaboration with Literary Club organized a self composed poem recitation competition on the topic ‘Gandhiji : Glory of the Nation’ on January 25, 2019 in the college.



- To celebrate Gandhi Jayanti, Gandhian Study Centre organized an extempore speech competition and a slogan writing competition on the topic ‘Spreading the message of Peace’ on October 03, 2018 in the college. This activity allowed the students to express their views and relate to the Gandhian Philosophy.
- On the occasion of 150th celebrations of Mahatma Gandhi, the students of Gandhian Study Centre and Dramatics Club participated in an inter-college competition titled ‘Plays on Gandhi’, conducted by Gandhi Bhawan, University of Delhi, on August 23, 2018.

North East Cell

(Convener: Dr. S K Shukla)

- A documentary was shown on the theme ‘North East India: Assam’ on October 26, 2018, this documentary covered the state of Assam with respect to their cultural diversity and life style.
- Poster making competition on ‘Cultural Diversity in North East’ was organized by the cell on September 29, 2018. In this competition various posters on the concerned theme were prepared and presented by the students of college.
- A meeting with DCP was conducted on August 30, 2018 in DCP office, Dwarka and various issues were discussed by the North East students. In order to resolve the issues, DCP shared various contact numbers of local police officers, SHO etc. and assured safety to all the all the students of North-East states both on campus and off campus.

NSS Cell

(Convener: Dr. Neeru Sharma)

- On National Voter Day i.e. on January 25, 2019 voter’s pledge was taken by the college students.
- A workshop on “Voter Awareness” was organized by the cell on January 21, 2019 for faculty and staff members of the college. The objective of the workshop was to create awareness about the electoral process. The importance of casting one’s vote was reiterated. The participants were explained about the procedures for inclusion of fresh voters in the electoral roll as well as how to check a voter’s name in the electoral roll list. Both offline and online procedures were discussed for the aforesaid.
- The cell celebrated Diwali on November 06, 2018 with the children of adopted village and distributed gifts to them. Many children participated in the various activities organized by cell and enjoyed a lot.
- The cell celebrated “Rashtriya Ekta Diwas “on October 31, 2018. In this, pledge was taken by the college staff and students to safeguard the integrity and unity of the nation.
- NSS volunteers participated in National Youth Campaign Program on “Cardio Pulmonary Resuscitation” (CPR) on October 23, 2018. It was a joint effort by Heart Care Foundation of India and Ministry of Youth Affairs and Sports.
- “Road Safety and Traffic Rules Awareness” program was organized on October 23, 2018 in collaboration with Delhi Traffic Police. Three traffic police officers sensitized the college staff and students with various traffic rules and explained the importance of rules for life safety and smooth traffic flow on roads. A Quiz was conducted by them at the end of session and rewarded the winners with prizes.
- NSS volunteers wrote poems and prepared cards for our soldiers on “Surgical Strike Day” (Parakram Parva), September 29, 2018 in the college. The NSS Volunteers also participated in the program organized by Ministry of Defence, Government of India where Honorable Defence Minister Mrs. Nirmala Sitharaman was the chief guest.



- The cell organized a Voter ID Camp on September 27-28, 2018 in collaboration with District Election Office (South West). Almost 100 students enrolled for Voter ID cards during camp through offline mode by form (6A). Voter ID card of several students was also corrected by form (8A). Students were also explained how to apply for Voter ID cards through online mode. College Ambassadors along with NSS volunteers played a key role in successful execution of the camp.
- For NSS Day (24 September) celebration, Poster Making & Essay Writing competitions were organized on September 24, 2018 and a Cleanliness Drive in the college campus followed by Lakshya Geet was organized on September 25, 2018. More than 40 volunteers along with 11 faculty members actively participated in the drive. Awareness was created among the students and staff members how to keep the surrounding clean and green.
- The cell organized a lecture by an NGO, 'Youth for Seva' on September 18, 2018. The speakers encouraged college students to inculcate a temperament of service for society and volunteer for social service beyond their comfortable zones.
- The Cell in association with Garden Committee and Swachhata and Waste Management Committee organized a Plantation Drive in the college premises on September 5, 2018 (Teacher's Day). College staff and students very enthusiastically participated in drive and planted around 100 trees in the college campus.
- The Cell also observed "Swachhata Pakhwara" from August 03-16, 2018 in which various activities were carried out such as, campus cleaning drive, door-to-door campaign in the Mangolpuri (adopted village), literature distribution in the district, cleaning of old age home & bus station, rally in the adopted village & Dwarka to teach the importance of cleanliness to general public.
- The Cell in association with Yoga Club of the college celebrated 'International Day of Yoga' on June 21, 2018. Eminent yoga experts from Bhartiya Yoga Sansthan shared their knowledge about the benefits of yoga and organized a yoga session where all the participants consisting of students, teaching and non-teaching staff performed asanas under their guidance with great zeal and vigor.

Training and Placement Cell

Convener: (Dr. Shalini Sehgal- July-October, 2018)
(Dr. Neha Singh- January 2019 onwards)

- The Cell organized a one day Seminar on 'Opportunities in Sciences, Challenges and Way Forward' on October 05, 2018 at the college auditorium. The highlight of the seminar was the inauguration of the BCAS Innovation Hub. Prof. R. K. Khandal (President R&D, India Glycols Limited and Former VC, UPTU) delivered the keynote address. Eminent speakers such as Prof. J. S. Virdi (Department of Microbiology, DU), Ms. Prity Khastgir (Tech. Corp. International Strategist), Ms. Meghna Singh (Career Counselling Expert) and Mr. Vishal Ranjan (BDM, DUCAT) addressed the students on the need for innovation and discussed aspects of IPR start-ups, funding sources, along with career opportunities in the various field of Sciences such as Biological, Chemical, Physical, and Information Technology.
- Students of the college registered themselves for internships and jobs on the Central Placement Cell of the University of Delhi.
- As per MHRD directive college students were encouraged to take free online skill tests for making them eligible for various internships and jobs.



Vivekanand Vichar Manch

(Convener: Ms. Manu Kataria)

- A lecture was organized to celebrate Vijay Diwas (Jammu Kashmir accession day) on October 25, 2018. Shri Chandra Prakash Bharadwaj delivered an inspiring lecture on the topic.
- Vivekanand Vichar Manch celebrated 'Universal Brotherhood Day' and Birthday of Pandit Deendayal Upadhyay on September 28, 2018. A lecture on the topic 'Vivekanand Deendayal aur Bharat' by eminent scholar Dr. Mahesh Chandra Sharma was organized on this day.

Women Development Cell

(Convener: Dr. Geeta Mongia)

- A one-day workshop on 'Women Empowerment' in collaboration with 'UDDAN' organized on February 14, 2019. Mr. Rashmi Ranjan, founder of 'UDDAN', a trainer as well as a management consultant was invited as the trainer. Almost 150 girl students from various departments enthusiastically participated and took advantage of this training. Mr. Rashmi Ranjan guided our students to handle situations with a sense of confidence. His techniques on developing self-belief as well as for stress management will benefit our students and the basics of entrepreneurship and awareness associated with legal issues have broadened their horizons.
- After the tremendous success of the outreach activity, a similar 10 days 'Self Defence Training Program' was organized for girl students of our college from October 01-12, 2018. 42 girls from various departments of our college enthusiastically participated and took advantage of this training.
- A workshop in collaboration with Delhi Police on 'Himmat Plus App' conducted on August 14, 2018. Various features of Himmat Plus App which was recently launched by the Delhi Police for women safety were explained. Police persons also demonstrated various self-defence techniques with the help of two assistants. Girl students and female faculties from various departments of the college participated in the event.
- Outreach Activity: Women Development Cell, conducted 10 days 'Self Defence Training Program' from July 02-12, 2018 for girls and women of neighbouring areas in collaboration with Delhi Police at our college lawns. 70 girls and women from neighbouring societies actively participated and took advantage of this training. A lady constable from Special Police Unit for Women and Children (SPUWAC) skilled them in a number of self-defence techniques to safeguard themselves in undesirable situations.

Activities organized by various Clubs

Astronomy Club

(Convener: Dr. Mahesh Chand)

- A successful visit was organized by the club for Nehru Planetarium to attend a seminar and its exploration on August 11, 2018. The talk was delivered by Dr. Bharat Ratra, Kansas State University, USA on 'COSMOLOGY'.

Dance Club

(Convener: Dr. Alivia Roy)

- On the occasion of Republic Day, the dance club did put their best foot forward in the form of a solo, a duet and two group dances in front of the Saraswati idol. All the performances were loved by the audiences and the entire college was swept by a deep patriotic fervour.



- A workshop was organized by the club on August 21, 2018 in the ECA room under the supervision of Dr. Ruchi G. Marwah (ECA convener), Dr. Ramesh Kumar (ECA Co-convener) and Dr. Alivia Roy (Dance Club Convener). The workshop was conducted by Vanya Pareek (Club President) and Mehak Jain (Club Vice President). Many students participated in the workshop to learn a basic bhangra-bollywood routine for future auditions.
- On the occasion of Independence Day, RAGE presented a sequence of dance items that included a solo, a duet and a group dance. The performances ignited the spirit of patriotism in everybody's minds and hearts.

Debate Club

(Convener: Dr. Neha Bansal)

- An Inter-College Asian Parliamentary Debate Competition 'CONLOQUIUM' was organized in association with Literary Club on January 22, 2019.
- Debate Club in association with the Department of Microbiology organized a debate competition on October 11, 2018 on 'Genetically Modified Crops do More Good than Harm'.
- Siddharth Trigunayat of B.Sc. (H) I year won first prize in a debate competition held on October 05, 2018 at G.B. Pant Engineering College during their Technical Festival 'INCEPTUM'.
- Udaat Mittu was awarded the first prize in a debate competition held on September 24, 2018 at Regional Centre for Biotechnology, Faridabad.
- An intra-college debate competition was organized on August 13, 2018, on the occasion of Independence Day on the topic, 'The Notion of Independence is being Misinterpreted by the Millennials'.

Dramatics Club

(Convener: Dr. Rakesh Saini)

- The club along with Gandhian Study Centre of the college also successfully participated in the 'Natya Pratiyogita' organized by the Gandhi Bhawan, University of Delhi on August 23, 2018. The play 'Gandhi Ji in Champaran' was based on a historic event where Gandhi Ji fought for the rights of innocent farmers.
- The club presented a stage play 'Anekta me Ekta' on August 14, 2018 on the occasion of Independence Day celebration in the college. The play very artfully depicted the various religions of India and yet the love that they share for 'Bharat Mata'.

Eco Club

(Convener: Dr. Shvetambri)

- Diya Decoration Competition was organized on October 10, 2018. Attractive diyas were made by students and lighted. Posters for celebrating eco-friendly 'Green Diwali' were displayed in the campus.
- The Club organized a tree plantation drive in the college premises on October 03, 2018. Plantation was promoted to make the premises greener. Eco Club students actively participated in the drive. Plantation of citrus lemon trees, Areca Palm, Terminalia arjuna and Terminalia bellirica etc. was carried out in the college campus.
- Paper recycling workshop was organized from September 24-27, 2018. Students actively participated in the workshop and made various coloured sheets. These recycled sheets can be used for making calendars, greeting cards and posters to name a few.



- Students of the club participated and presented data collected on pollution during Diwali in Ministry of Environment during “Ozone Day” celebrations held on September 17, 2018.
- A poster-making competition on recycled sheets was organized in association with Department of Botany on September 14, 2018. Theme for the poster making competition was ‘पर्यावरण और जीवन’.
- A rakhi-making competition by utilizing waste materials was organized on August 21, 2018.
- A tree census was carried out in the college premises on August 08-10, 2018 in association with Department of Botany. According to the tree census there were total of 400 trees found in the college campus. In terms of diversity there were about 50 different species in the campus.

Film Club

(Convener: Dr. Basant Saini)

- Film Club screened the movie ‘Parmanu’ on January 30, 2019 in the college AV Room. Around 110 students got together for the screening of this entertaining as well as informative film. The Principal briefed students and highlighted facts related to Pokhran and how it significantly impacted the nation.

Modern and Fine Arts Club

(Convener: Dr. Tanya Luva Swer)

- All the students of the club actively volunteered for decorating the college campus for the Republic Day (2019) celebrations.
- Mr. Shubham Singh of B. Sc. (H) Polymer Science, IInd Year won the first prize in “Sketch-Doo-Paint” competition at the Acrylica’18 organized by Vibyor -The Fine art Society of Shivaji College, University of Delhi held on September 25, 2018.
- An intra-college competition on the theme “Click and Draw” was organized by the club on August 24, 2018.
- All the student members of the club enthusiastically participated in decking up the college campus during Independence Day (2018) celebrations.
- Akriti, the Modern and Fine Arts Club, organized an audition on August 10, 2018 in order to induct new members into the club. More than ten students from different departments came forward to join in the club.

Music Club

(Convener: Ms. Anshika Singh)

- An “Antakshari Competition”, ‘Andaaz Apna Apna’ was organized on January 28, 2019, in the college. It helped rejuvenate the fond memories among the students who participated from different departments.
- On the occasion of 69th Republic day, the students from music club mesmerized the audience with their marvelous singing performances.
- The club also organized an intra-college singing competition on October 30, 2018, which witnessed active participation of students from different departments and got huge appreciation from all the students.
- On the occasion of 72nd Independence Day, the students from music club participated in the celebrations and stirred the feelings of patriotism among the audience through their soul-touching singing recitals.



Yoga Club

(Convener: Dr. Kapil Roy)

- Yoga Club and Department of Physical Education jointly organized a workshop on ‘Transforming Body & Soul through Yoga’ on August 31, 2018. Dr. Tarak Nath Pramanik, Assistant Professor from Indira Gandhi Institute of Physical Sciences and Sports Sciences, University of Delhi was invited as the Yoga expert. He demonstrated various pranayama and yoga asanas followed by an enlightening lecture on how both mind and body could be transformed with the help of yoga.
- The Club in association with NSS Cell of the college celebrated ‘International Yoga Day’ on June 21, 2018. In order to spread consolidated and effective knowledge about the benefits of yoga, eminent yoga experts, Shri Bhola Ram Malik and Shri Balkrishna Grover from Bhartiya Yog Sansthan were invited to demonstrate and conduct participative session on various pranayama and yoga asanas such as vakrasana, bhujangasana etc. The students as well as teaching and non-teaching staff enthusiastically participated in the celebration.

Every attempt has been made to verify the authenticity of the contents mentioned in the Annual Report 2018-19. However, the responsibility of the information provided lies solely and entirely on the individual stakeholder. The college shall not be held responsible for any incorrect information and the consequences of using such information. The data contained in this report is indicative only and must not be used for any legal purposes or claiming it as a proof of the fact represented here, required anywhere.

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