



Department of Biotechnology



SCHOOL OF ENGINEERING AND TECHNOLOGY

DNAwesome NEWSLETTER

VISION

To become a global centre for higher learning in pursuit of academic excellence, innovation, and entrepreneurship in various disciplines of Biotechnology.



MISSION

M1: To adapt and update students with rapidly changing technologies through self-improvement with continuous learning and professional ethics.

M2: To enable students for community-collaborative learning processes beyond classrooms in various disciplines of biotechnology.

M3: To conduct cutting-edge multi-disciplinary research in plant, animal, medical, industrial, microbial, and environmental biotechnology.

M4: To motivate and train students for industrial practices, higher studies, lifelong learning skills, and entrepreneurship.

Technical Skill Enhancement Program (TSEP) & Personality Development Program (PDP) under Boot-Camp from 3rd Jan to 19th Jan 2018 for final year students

SET had organized boot camp for final year students of all branches in second week of 2018 to prepare the students for the placement process. The aim was to provide real time Group Discussion and Interview practice to the students. Total 56 session of Personality Development Team (PDP) and 42 session of Technical Skill Team (TSEP) was held for all department students.

The Learning Outcomes of boot camp is as follows:

- 1. Solve technical, analytical, logical and quantitative problems confidently in interview.**
 - 2. Communicate their logical thoughts during interviews, Group Discussions and presentations.**
- Understand soft-skills pertaining to industry and develop skills for career enhancement.**

Parent Teacher Meeting (PTM) - SET | 17th March 2018

School of Engineering and Technology (SET), Sharda University had organized 'Parent Teacher Meeting (PTM)' on 17th March 2018. During this meeting, the overall performance of students and their status of attendance had discussed with parents by the respective class coordinators/department. The goals of any parent-teacher meeting are to help the student to succeed. The conversation may vary, depending on the student, the circumstances surrounding the conference and the time in the student's academic career. However, the goal is always the same: help the student. Almost parents of all year students had participated in this event and had face to face discussion with respective mentors/teachers during meeting.

The Convener of PTM are Dr. Parma Nand (Dean SET) and Dr. Rita Singh Majumdar (Head of Biotech Dept)



Entrepreneurship Awareness as EAC-2018

School of Engineering and Technology (SET), organized a three days camp on Entrepreneurship Awareness as EAC-2018 from 9th April to 11th April, 2018 (2:00 P.M to 4:00 P.M) under the chairmanship of Dean, (SET) , Prof. Parma Nand, Coordinated by Prof. Neeraj Marwaha (ECE/EEE) and Prof. A.K. Singh (BT) moreover all the departments participated effectively with a total strength of 140 students and 26 faculty and staff members from all departments under the school of engineering and technology (SET).

On first day 09/04/2018, Monday we have Mr. Sajid Raza for Registration of participants 02.00-02.30 P.M and from 02.30-04.00 P.M Inauguration & About the Programme. Second day, 10/04/2018 Tuesday we have Dr. Raj Karan Gupta who talks about the "Concept of Entrepreneurship" 02.00 - 03.00 P.M and 3:00 to 4:00 P.M "Entrepreneurial competencies". On last day (Third Day) we have Mr. Sandeep Malik who talks about "Various Govt. schemes related to Entrepreneurship" 02.00-03.00 P.M and from 3:00 to 4:00 P.M we have Valedictory Function, Certificate Distribution by worth Dean, (SET) Prof. Parma Nand, Prof R.M Mehra and HoD's of Various Departments.

NATIONAL LEVEL PROJECT COMPETITION, INNOVATION BUDGE 2018

School of Engineering and Technology (SET), Sharda University, Greater Noida a global recognized and a youth leadership institute had organized “National Level Project Competition, Innovation Budge 2018” on 12th April 2018”. It aims to invite innovative/smart projects from all students. More than 120 projects are registered from different Schools, Institutes, Universities and displayed & demonstrated in Block-2, ground floor. Projects are of different areas such as application software, tracking system, smart homes, drone and automatic robot, etc. The Judge of events are Mr. Surendra Kumar, Chief Manager (Microwave Electronics Division) from Central Electronics Limited Ghaziabad and Mr. Ravi Raman, Senior Engineer at Sopra-Steria.

The projects participants were divided into two teams. The Team A includes CS/IT/Biotech streams and Team B includes ME/CIVIL/EEE streams. One participant Ms. Manvi Chaudhry from Kaushalya world school had also displayed her project name Water filtration Techniques and won appreciation certificated from Judges. The convener of the workshop was Parmanand Astya (Dean, SET, Sharda University), Co-Convenors were Dr. Pallavi Gupta, Dr. Bhim Singh and Dr. Rajiv Kumar and Co-Ordinators were Dr. Ashok Kumar Sahoo, Ms. Amrita, Ms. Aprajita Nainwal, Mr. Dharam Raj, Ms. Tanvi Gautam, Dr. Rita Singh, Vimlendu Sinha, Praveen Yadav, Ram Saran Chaudhary, Mr. S Mukherjee, Mr. Sandeep Singh, Ms. ManishaRajauria, Mr. C Mohan, Mr. Shibamay Mitra, Mr. Vineet Kumar, Mr. Anuj Kumar Sehgal, Mr. Abhishek Bhattacharya, Dr. Gaurav Saini, and Ms. Sarmintha R Paul.

Winners List

Position	Project Name	Student Name	University Name/Institute Name	Discipline
A-1ST	Smart wheel chair	Gaurav Kumar, Rati, Shweta, Abhishek Ishant, Ashutosh	Dronacharya College of Engg	CS/IT
A-2ND	Development of eco bags from peel of pods	Raghav Jain, Maleen Kaur	Gautam Buddha University	Biotechnology
A-3RD	Reward win win	Sumit Sarohi, Robin Sharma, Srinath Thapa, Rishabh Malhotra	Dronacharya College of Engineering	Information technology
B-1ST	Expandable Table	Vikash kumar Mahto, Suneel Kumar Singh, Shahjad alam	Sharda University	Mechanical Engineering
B-2ND	Replacements of Crib	Girish Kumar Sharma	IIMT College	Mechanical Engineering
B-3RD	Divya Shakti	Arun, piyush, showket	Sharda University	Mechanical Engineering

Featured

नवोन्मेष बिजनेस स्पर्धा में द्रोणाचार्य और शारदा प्रथम

ग्रेटर नोएडा। नॉलेज पार्क स्थित शारदा विवि के स्कूल ऑफ इंजीनियरिंग और टेक्नोलॉजी की ओर से राष्ट्रीय परियोजना प्रतियोगिता (एनपीसी) नवोन्मेष बिजनेस-2018 का आयोजन किया गया। इसमें एनसीआर के विभिन्न कॉलेजों के 150 छात्रों ने हिस्सा लिया। मुख्य अतिथि सुरेंद्र कुमार मुख्य प्रबंधक सेंट्रल इलेक्ट्रॉनिक लिमिटेड, वरिष्ठ परियोजना प्रबंधक रवि रमन सोपरा स्टेरिया सॉफ्टवेयर कंपनी और पूर्व वाइस काउंसिलर विजय गुप्ता विवि और पूर्व निदेशक प्रोफेसर आईआईटी कानपुर रहे। इस दौरान गीक्स कंपनी से आई टीम ने छात्रों को इंटरनेट का प्रस्ताव दिया।

प्रतियोगिता में ईसीईए और इलेक्ट्रिकल, कंप्यूटर, सूचना प्रौद्योगिकी, जैव प्रौद्योगिकी की टीम

एनसीआर के विभिन्न कॉलेजों के 150 छात्रों ने लिया भाग

थी। जिसमें द्रोणाचार्य ग्रुप ऑफ इंस्टीट्यूट्स के छात्रों ने पहला, गौतम बुद्ध विश्वविद्यालय के छात्रों ने दूसरा और द्रोणाचार्य ग्रुप ऑफ इंस्टीट्यूट्स के छात्रों ने तीसरा स्थान प्राप्त किया। ग्रुप बी में मैकेनिकल, ऑटोमोबाइल और सिविल इंजीनियरिंग की टीम थी। जिसमें शारदा विवि के छात्रों ने प्रथम, आईआईएलएम कॉलेज ऑफ इंजीनियरिंग एंड टेक्नोलॉजी के छात्रों ने दूसरा और शारदा विवि के छात्रों ने तीसरा स्थान प्राप्त किया। इस दौरान विवि के डीन प्रोफेसर परमानंद, विजय गुप्ता, प्रो. राजीव कुमार आदि मौजूद रहे। व्यूरो





School of Engineering and Technology (SET), Sharda University, Greater Noida had started concept of Bloom's taxonomy as part of question paper setting. Bloom's Taxonomy was created in 1956 under the leadership of educational psychologist Dr. Benjamin Bloom in order to promote higher forms of thinking in education, such as analyzing and evaluating concepts, processes, procedures, and principles, rather than just remembering facts (rote learning). It is most often used when designing educational, training, and learning processes.

Featured articles

The School of Engineering and Technology (SET), Sharda University had organized its 3rd Alumni Meet on Saturday, March 31, 2018. It is an occasion for our alumni to meet old friends, classmates, acquaintances, and teachers, reminiscing memorable experiences and sharing success stories with the current students. Most importantly, it would be an opportunity to renew our commitment to the noble ideals of the Sharda University. The event started with Saraswati Vandana and Lamp lighting by the Faculty and the alumni. A welcome address was delivered by our Dean, Prof. Parmanand highlighting the achievements of SET. He also stressed on the necessity of working for the upliftment of all sections of our society. A number of our distinguished alumni shared their cherished experiences of Sharda, how their time at Sharda prepared them for professional success and named the professors who have had the greatest influence on them during their college days. Many of them also shared success mantra with the audience. All the alumni were presented with a token of our love in the form of a memento. The vote of thanks was given by Prof. Mehra, who recollected a number of experiences with the alumni. The event was followed by a lunch for the alumni and the faculty.



**Mr Sandeep Singh, Assistant
Professor ECE had been
appointed as DyCoE of SET
Sharda University**

BIOTECHNOLOGY ENGINEERING

Research Publications

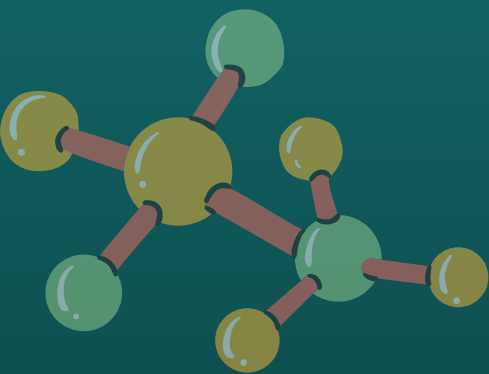
1. Mustafa Alsa, Rita S Majumdar & Shazia Haidar. A Green Method of Molecular Docking and Dynamic Simulation of Protein Molecule Obtained from Mycobacterium Tuberculosis. Paper published in International Seminar on Green Chemistry: Synthesis, Processing & Devices held on April 6-7, 2018 at Dept. of Chemistry, V.K.S.U., Ara Bihar.
2. A Kumar, R. S Majumdar and T Dhewa, "In Vitro Efficacy of Biosynthesized AgNPs against Streptococcus mutants causing Dental Plaque Formation", Research Journal of Scientific & Industrial Research, Vol.77, April 2018, pp.225-228.
3. Majumdar, S., & Johari, S. (2018). Development of a gold-nanoparticle based novel dot immunobinding assay for rapid and sensitive detection of Banana bunchy top virus. Journal of virological methods, Vol. 255, 23-28.
4. Majumdar, S., Mbay, K., & Singh, J. (2018). First report of garlic virus D in garlic from DR Congo. Journal of Plant Pathology, Vol 1-1.

Invited Lecture/ Conference

1. Dept. of Biotechnology School of Engineering & Technology (SET celebrated International Women's Day on 7th and 8th March 2018. On this occasion, the following speakers were invited to deliver their lectures on 7th March 2018.
2. Ms. Shomita Biswas, IFS, Ministry of AYUSH delivered an interesting and informative talk about medicinal and aromatic plants in India. She focused on the export possibilities of many of these medicinal plants. She also mentioned their products (active, natural principles, and crude extracts) that have been mentioned or used in the Indian traditional system of medicine. Indian plants which are most effective and the most commonly studied in relation to diabetes and their complications are *Allium cepa*, *Allium sativum*, *Aloe vera*, etc.
3. Dr. M.R.R Prasad, Former Scientist ISRO, Govt. of India talked on thought-provoking aspects of microbial existence in Space research. He emphasized the use of the space environment for understanding basic biological mechanisms, such as the role of gravity at the cellular, subcellular, and extracellular levels.
4. Dr. Vasundhara, Dietician, AIIMS gave a talk on Food Quality and maintenance of health under stress conditions both for teachers and students. She emphasized food-borne diseases which are the most prominent health problems these days and often have fatal consequences.
5. Prof. Rita S Majumdar has delivered an Invited lecture entitled "Value Addition In Medicinal And Aromatic Plants" at National Conference on Environmental Pollution and its Control (EPIC 2018) held from 9th to 10th March 2018. It was organized by the Department of Civil Engineering, Government Engineering College, Rajasthan and she was also Chairperson of a session at the conference. She attended the conference along with 19 PG students (both Indian and Ethiopian) of our department.



Faculty Development Programme



**Biotechnology
faculties attended FDP
on 'Approaches for in-
silco drug designing'
organised by IILM,
Greater Noida held
from 3 July 2018 to 7
July 2018.**



SUMMER TERM PROGRAMMES FOR ETHIOPIAN STUDENTS



AN EDUCATIONAL TOUR WAS ARRANGED BY THE DEPARTMENT OF BIOTECHNOLOGY, SET, SHARDA UNIVERSITY FOR M.TECH & M.SC. BIOTECHNOLOGY STUDENTS (INCLUDING INTERNATIONAL STUDENTS) TO AJMER FROM 13TH TO 17TH OCTOBER 2018. DURING THESE FOUR DAYS TOUR, THE STUDENTS GOT A CHANCE TO VISIT GOVERNMENT RESEARCH LABORATORIES, SCIENCE MUSEUM AND A SMALL LOCAL DAY TOUR TO SEE THE HISTORICAL/SOCIAL/CULTURAL DIVERSITY AT AJMER (E.G. AJMER SHARIF DARGAH, BRAMHA TEMPLE, ETC.). ON 15TH-16TH OCT. 2018, THE STUDENTS ALSO ATTENDED A TWO DAYS NATIONAL CONFERENCE AT SOPHIA GOVERNMENT COLLEGE, AJMER AND WERE EXPOSED TO THE ADVANCES IN SCIENCE AND TECHNOLOGY IN CONTEXT TO BIOTECHNOLOGY WITH INTERDISCIPLINARY APPROACHES. A TOTAL OF 28 STUDENTS WERE ACCOMPANIED BY PROF. RITA S MAJUMDAR AND MR. PRAVEEN YADAV.



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