



**MODY**  
**UNIVERSITY**

OF SCIENCE AND TECHNOLOGY

LAKSHMANGARH • RAJASTHAN

A Leading Women's University



# SCHOOL OF ENGINEERING AND TECHNOLOGY



**ANNUAL  
REPORT | 2018-19**

# ANNUAL REPORT 2018-2019



**PREPARED BY:  
MR. MUKUL KANT PALIWAL**

**MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**LAKSHMANGARH – 332311 (RAJASTHAN), INDIA**

## PREFACE



**Dr V K Jain**  
**Professor & Dean-SET**

This Annual Report for 2018-19 highlights the current state of SET, Mody University of Science and Technology and its achievements over the past one year. I am glad to say that the progresses made in the last year are in-line with the priorities defined in the SET Strategic Plans.

During 2018-19, the courses of B.Tech CSE and ECE got accredited by ABET USA for six years. I proudly say that SET, Mody University is among the seven Universities throughout India having ABET accreditation. The SET, Mody University is preparing itself for the first cycle of accreditation by IET UK for all engineering departments. In this year CSI Lakshmanagarh Chapter and Society for Women Engineers (SWE) Chapter and IET Chapters got established.

In the same academic year, more than 20 PhD were awarded which is record highest in Mody University in an Academic Year. As on date, more than 70% of the faculty members of the Institute are Ph.D. which is a remarkable achievement for academic and research purpose. The Institute envisage 100% PhD qualified faculty members in next coming years.

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## 1. INTRODUCTION

The Mody University of Science and Technology was established in the year 1988 by Shri Rajendra Prasad Mody, an industrialist and philanthropist from Lakshargarh. He is a true visionary who took an idea ahead of his time and founded Mody University of Science and Technology exclusively for girls. His philanthropic attributes, operated in terms of social and psychological promotion of the women community, led him to impart his proposed vision through practical infrastructure. The institution instills the thought that is fully capable of orienting knowledge and information in a scientific manner in the minds of the common mass. This acts as a boon towards the development of a 21st century perspective of the knowledge acquisition process implemented within the university.

### ➤ Vision

To be a world-class institute of Learning for women with Indian values, dedicated to nurturing excellence through the best available facilities in maximum possible fields.

### ➤ Mission

Committed to nurturing excellence in women through imparting knowledge and enabling them to become professionals, well-versed in modern technology and management practices while imbibing social sensitivity and environmental consciousness for the betterment of self and society.

## 1.1 About Mody University of Science and Technology

Mody University of Science and Technology is one of the leading women's universities in India. It is devoted to excellence in education and research and is known for its world class infrastructure. It is situated in a beautifully laid out, 265-acre green campus in the university town of Lakshargarh, Sikar, Rajasthan. Since its establishment it has provided education to over 10,000 women in a serene and elegant setting and prepared them well to go out in the world and achieve their goals. Mody University of Science and Technology has six colleges which offer undergraduate and postgraduate programs. Well qualified and dedicated faculty, offer unparalleled student experiences in a broad spectrum of academic and cultural programs. The temple on the University premises is the guiding light and spiritual backdrop to all the day to day activities, providing inspiration to all. There are eight Schools in the University, namely the School of Science (SOS), the School of Planning, Architecture and Interior Design (SPAID), the School of Engineering and Technology (SET), the School of Fashion and Design (SOFD), the School of Legal Studies (SLS) and the School Management Studies (SMS), the School of Liberal Arts (SLA), the School of Etiquette & Finishing Skills (SEFS). Mody University of Science and Technology is covered under section 2(f) of the UGC act, 1956 and it is empowered to award degrees as specified by UGC under section 22 of the UGC Act, 1956. It is recognized by the All India Council of Technical Education (AICTE), National Board of Accreditation (NBA) and the Bar Council of India (BCI) and Council of Architecture (COA).

Mody University of Science and Technology is one of the most beautiful universities in India. The

campus is a 2-hour drive from Jaipur on the newly widened Jaipur-Bikaner highway, in the historic Shekhawati region. The lush green campus with magnificent architecture, tree-lined avenues, flowers, fountains, statues and shilalekhs provides an uplifting and inspiring setting for academics and extracurricular activities, for work and play, for food and festivities. The University has smart class rooms, hi-tech laboratories, excellent libraries and computer labs, a magnificent dining hall with nutritious vegetarian food and air conditioned hostels with all modern amenities. Olympic standard sports facilities include tennis, basketball, volleyball and horse riding. There is also a temple complex with a yagnashala and yoga hall, in manicured gardens with a pool in the shape of a lotus. Arti is held every morning and evening in the temple. A stunning new state of the art auditorium complex has just been built where programs and performances will be held on a regular basis.

Like the University has made the desert bloom with great care and effort, the faculty takes great care and nurtures the students to blossom and to reach new heights they could not have imagined before. The University has built up a reputation of trust among parents. They believe that not only are their children educated, they inculcate spiritual values and also a modern outlook in keeping with our traditional ethos. The safety and security of their daughters is a matter of paramount importance. The residential facilities are superb with a great deal of attention to detail put in taking care of all the amenities and comforts of the students. Shuttle buses run in the campus at frequent intervals for the convenience of the students, and there are regular services to take them outside the campus as well. There is a vibrant community life on the campus. The sports fields resound with activity in the evenings. Student Societies hold their meetings. Schools have their own festivals which the girls avidly rehearse for, providing colour and excitement in the campus. Every year Founder's Day is celebrated with much gusto. Panache is a University wide festival of foreign culture and language. National and International conferences and workshops are also frequent giving an opportunity for the students to connect with the outside world. The University boasts of a pollution- free Green campus (ISO 14001: 2004 Certified University Campus) with sustainability increasingly being a way of life. The biodiversity of flora and fauna in the erstwhile desert speaks of a high level of conservation and effort. Students also contribute to society in various ways. Mody University of Science and Technology has emerged as an institution of eminence and repute, with empowerment of women through education being its main aim. The alumnae are spread out all over India and the world. The University is justly proud of producing women of character who will be the future citizens and leaders of the nation, fulfilling the vision of the Founder.

## 1.2 Hallmarks

- A premier Women's University committed to academic excellence.
- Epitome of Indian Traditions and Modernity.
- Aesthetically designed campus with an area with more than one lakh square meters and 10 Kms of Internal Campus Roads (ISO 14001: 2004 Certified University Campus).
- One of the best teacher student ratios in India (1:15) supported by highly qualified faculty members.
- A plethora of certified courses in diverse disciplines like Arts, Science, Engineering, Technology, Management, Commerce, Architecture, Interior Design, Fashion, Law etc.

- Smart Classrooms, State-of-the-art Laboratories and Research Facilities, Rich Library Resources with more than 70, 000 Books and Journals along with e-resources. (24 hours access to online Journals).
- Five Foreign Languages – Chinese, French, German, Japanese and Spanish taught by distinguished faculty members.
- MoUs with various International Universities and renowned research institutions and international internships and fellowships for students.
- Excellent Placement in world's leading MNCs.
- Five star residential facilities (A.C. and Non-A.C Rooms), exquisite Dining Hall and Cafeteria, Fully Wi-Fi Campus; and 100% power backup.
- Floodlit Lawn Tennis, Badminton, Basketball, Volleyball Courts and Playgrounds spread over an area of 17.5 Acres; and an equestrian wing consisting of 55 trained horses with an Olympian trainer.
- In-house Dairy with 160 Holstein Cows.
- State-of-the-art Auditoriums with the capacity of 303 and 1040 people.
- A lotus-shaped aesthetically designed Temple and Meditation Hall (Tapovan) for Praying, Yajna and Meditation. Yoga classes are held daily in the Meditation Hall.
- Fully equipped Clinic with two residential lady Doctors and female nursing staff; and a counseling center for students.
- Air Conditioned Shuttle bus facility from morning till night in an interval of 15 minutes.
- A rich and vibrant campus life.

## 1.3 Infrastructure

### 1.3.1 Tech-savvy Classrooms

Learning and teaching is a two-way process that demands complete dedication and full concentration. To ensure complete level of concentration, a favourable environment is a must. Keeping this very requirement in mind, the management of Mody University of Science and Technology has designed user-friendly and tech-savvy classrooms for the girl students.

Mody University of Science and Technology is an institution of the 21st century, which makes it quite obvious that it uses the best technological enhancements to make its classrooms participative and interactive. This is the age of cut-throat competition and Mody University of Science and Technology aims at making its students perfect in all respect so that they always fly high keeping others behind.

Of course, the traditional approach towards teaching and learning is the core process that cannot be ignored, but besides the conventional approach, Mody University of Science and Technology management also experiments with the latest technological gadgets that can help in fostering the learning process.

The students are allowed to give presentations, attend seminars, go for internships, aid camps, etc. They are also allowed to submit their assignments online and do proper research using internet for various topics.

Along with the interactive classes, the students of Mody University of Science and Technology are provided study materials in capsulated form that makes it really easy for them to go through the lessons properly. CDs are there along with projectors to make visual and audio learning comfortable and easier for the girls. Learning foreign languages is included in the regular curriculum.

The computer laboratories and also other labs are well-equipped with latest technological products. There are sufficient No. of classrooms, Seminar Halls, Drawing Halls of required size as per AICTE norms. All the classrooms, Seminar Halls, Drawing Halls are well furnished with furniture, blackboards, projection screens, OHPs/LCD Projectors and are ventilated with sufficient lighting.

### 1.3.2 Tapovan

Spirituality is the key to unlock the potential of the human mind. Spirituality allows for strengthening intuition, creativity, and inspiration so that one can be guided towards the life and work that they will find most rewarding. All aspects of the campus are designed to allow for students and faculty to look inwards and strengthen their inner voice, to make them strong and fulfilled individuals following the path that suits them the best. Without the cultivation of the mind and of this inner voice, much of education and the learning process is incomplete. The magnificence of the buildings, the proximity to nature, the stillness and peace that can be found amidst the daily hustle bustle are some of the most compelling factors to study at Mody University of Science and Technology.



### 1.3.3 Five-Star Residential and Wellness Facilities

Living away from home is not easy. More often than not when someone moves away from home for studies, renting a place seems like a big task and that is when parents seem concerned to find decent lodgings with good facilities for their children. But coming to pursue any programme of study at Mody University of Science and Technology turns to almost like a home experience, because when students stay on campus, in the hostels of the University, parents and above all students need not worry about any lodging or staying difficulty. They are very well taken care of. The University has 8 very good hostels on the campus. Each hostel has a capacity of around 180 beds. Students can easily opt to reside in rooms with single, double or four-bed facilities (AC/Non AC according to their need). Each room has ample storage capacity. Hostel rooms are well-furnished and properly ventilated. Bathrooms are beautifully designed and equipped with cold and hot water facilities according to weather. Supply of clean and hygienic water is ensured throughout the year. For this purpose, water-cooler machines equipped with latest RO technology have been installed at every floor of each hostel. All the hostels of the University have 24 × 7 Wi-Fi connectivity. Apart from this university also has its own power-house which is responsible for uninterrupted electricity supply in the campus. A team of highly qualified Residential Lady Doctors and female nursing staff is available at the University clinic. There are two ambulances that are always ready to ferry the students from their hostel to the clinic in case of any urgency. Apart from this University also arranges visits of Dentist, Ophthalmologist and ENT (Ear, Nose and Throat Specialist) from time to time. The University has two AC buses to ferry the students from their hostels to academic buildings, dining hall and reception area of the university. In addition to this, there are weekly bus services for Sikar and Jaipur. The University also keeps in mind the commuting difficulties of students of neighbouring areas and has regular bus services in place to solve the problem of such students.



### 1.3.4 The Magnificent Dining Hall

With a capacity to accommodate more than 1800 people at a time, the grand Dining Hall of Mody University of Science and Technology is one of its kinds in the Country. It is lavishly decorated in marble and stone, brilliantly lit with splendid chandeliers. The whole length of the vast dining hall has an arched skylight as a ceiling. The magnificent architecture of the dining hall, the gardens and the fountains playing outside, make every meal a treat for all the senses. The University dining hall brings everybody together in an otherwise diverse campus. All the students and faculty enjoy their breakfast, lunch, evening snack and dinner cooked by highly trained chefs. The university has its own dairy that supplies pure and fresh dairy products for the students and staff. Apart from this, the university has its own bakery that bakes vegetarian cookies, breads and tasty snacks. At mealtimes, a varied selection of uplifting and melodious music makes the whole experience very pleasant. For a more restaurant like feel, students can also stop by the very popular Cafeteria (adjoining the dining hall building) that offers a very good variety of Indian and Continental dishes. The Cafeteria is a lively and upbeat place for students to relax away from the busy schedule of their studies and is a great favourite. Another new world-cuisine cafeteria that is the part of Auditorium Complex will serve five kinds of world cuisines such as Italian, Mexican, Chinese and Indian. Students can give a change to their taste buds by enjoying food cooked by world class chefs from all continents.



### 1.3.5 Auditorium Complex

The magnificent auditorium at Mody University of Science and Technology is unique and one of the best auditoriums around the country. The auditorium is designed in such a way that it ensures a perfect view of the main stage irrespective of the seating location of the audience. The monumental stage of the auditorium is a very good platform for the students of the university to showcase their multiple

talents in the field of theatre, drama, dance and different cultural programs. Named after the spiritual poet and classical musician of India Swami Haridas, Swami Haridas Sabhagar - the main auditorium complex has a seating capacity of 1040 people. The auditorium is equipped with a state-of-the-art audio-visual system by Bose and Christie (world renowned names in the field of acoustics and cinema projection) for movie projection (22,000 Lumen), cultural and educational programmes. The entrance area of Swami Haridas Sabhagar is tastefully decorated with water- bodies, fountains and greenery. The front and middle portion of the Swami Haridas Sabhagar with a grand and huge statue of Lord Nataraja gives it a divine and spiritual look. The wonderful double-height interior walls are embellished with celestial and spiritual sculptures, murals and paintings. The Mini Auditorium that takes its name from the world famous Tansen or Ramtanu Pandeya (who was one of the Navratnas from the court of Akbar and disciple of Swami Haridas) is known as Tansen (Ramtanu Pandeya) Sabhagar. It has a seating capacity of 303 people. This auditorium will mainly be used for organizing different national seminars, lectures, workshops, symposiums and small scale dance, drama, theatre and other cultural events. Both the auditoriums (Swami Haridas Sabhagar and Tansen (Ramtanu Pandeya) Sabhagar) are designed and constructed using the modern age HVAC (Heating, Ventilating and Air-conditioning), Electrical and Emergency Services.



### 1.3.6 Sports Facilities

Mody University of Science and Technology is one of the best women's universities of not only Rajasthan but of India as well. The University is not only known for its academic achievements but is also highly regarded for its sports accomplishments as well. Mody University of Science and Technology provides the students with an excellent platform to showcase their talent in the field of sports. Mody University of Science and Technology has playgrounds spread in an area of 17.5 acres. All the playgrounds and courts are as per international rules and norms. Students get ample

opportunity to try their hand and excel in sports such as Hockey, Football, Volleyball, Basketball, Badminton, Lawn Tennis and Athletics. Students are trained and play under the expert supervision of coaches and trainers for these sports. The Basketball, Volleyball, Badminton and Lawn Tennis courts are floodlit, so that students can play even at night. All the hostels of university are also equipped with indoor game facilities such as Carom-board and Table-Tennis which students can enjoy in their leisure time. There are 55 trained horses in the equestrian wing of university. Willing students can learn horse-riding under the guidance of a qualified trainer. Apart from these regular sports, students are also encouraged to practice Yoga to sooth their body and mind. Special classes of Yoga are held in the morning and evening under the supervision of a certified Yoga Trainer in the Meditation Hall in Tapovan, a place specially constructed for such purposes. Every semester the students of Mody University of Science and Technology participate in different Sports tournaments organized at different universities of India where they win gold, silver and bronze medals, thus bringing laurels to the name of the University.



### 1.3.7 Transportation

As Mody University of Science and Technology is not only for boarders and there are also daily scholars who come to study here, mention of its transportation facilities becomes mandatory. Mody University of Science and Technology has its own fleet of 5 buses that are available for the pick and drop of the daily comers and also for emergency situations of the boarders. Along with buses, there are also three vans available 24×7 within the campus. The transports move within and even outside the campus whenever required. This facility is a must for the pick and drop of the daily comers. In case, the boarders need to move out in an emergency, shuttle facilities are available for such situations.

## 2. ABOUT SCHOOL OF ENGINEERING AND TECHNOLOGY

### 2.1 Vision

To be a Centre of Excellence in technological learning and research comparable to the best in the World with the special commitment to women education.

### 2.2 Mission

- To offer state-of-the art facilities for providing world class education in Engineering & Technology at UG, PG and doctor level.
- To imbibe the spirit of Innovation and Entrepreneurship amongst students.
- To create intellectually capable and imaginatively gifted leaders to serve the society and industry.
- To promote high standards of professional ethics, transparency and accountability

### 2.3 Program Educational Objectives

- Identify, formulate, analyze, and appropriate Engineering and Mathematical principles to develop creative applications suitable for solving real life problems, using her skills and latest tools.
- Inculcate the habit of lifelong learning in order to keep herself up-to-date to the changing technical, industrial and social scenarios.
- Effectively communicate and work in a team comprising of multidisciplinary, multilingual and multi-ethnic members.
- Understand her personal, professional, global, social and ethical responsibilities.

### 2.4 Student Outcomes

- An ability to apply knowledge of Mathematics, Science, and Engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multidisciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- Recognition of the need for, and an ability to engage in life-long learning.
- Knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

## 2.5 Resources

### 2.5.1 Laboratories

S. No.	Department	Laboratory
1.	Computer Science and Engineering	DBMS Lab
2.	Computer Science and Engineering	IBM Lab
3.	Computer Science and Engineering	Operating System Lab
4.	Computer Science and Engineering	Programming Lab
5.	Computer Science and Engineering	CS Postgraduate Lab
6.	Computer Science and Engineering	Artificial Intelligence Lab
7.	Computer Science and Engineering	DOT Net/ Advanced Java Lab
8.	Computer Science and Engineering	OOPS lab (C ++)
9.	Electronics and Communication Engineering	VLSI Lab
10.	Electronics and Communication Engineering	Digital Electronics Lab
11.	Electronics and Communication Engineering	Analog Electronics Lab
12.	Electronics and Communication Engineering	Microprocessors Lab
13.	Electronics and Communication Engineering	Microwave & Antenna Lab
14.	Electronics and Communication Engineering	Communications Lab
15.	Electronics and Communication Engineering	Industrial Electronics Lab
16.	Electronics and Communication Engineering	Multi Sim Lab
17.	Electronics and Communication Engineering	EMI Lab
18.	Electronics and Communication Engineering	Electronic Workshop and Power Electronics Lab
19.	Science	Physics
20.	Science	Chemistry
21.	Electrical Engineering	Control System
22.	Electrical Engineering	Power System

23.	Electrical Engineering	Electrical Machines
24.	Electrical Engineering	Electrical Simulation Lab
25.	Electrical Engineering	Network Analysis
26.	Electrical Engineering	Electrical and Electronic Measurement
27.	Mechanical Engineering	CAD
28.	Mechanical Engineering	Workshop
29.	Mechanical Engineering	I.C. Engines, Refrigeration, Air-conditioning
30.	Mechanical Engineering	Strength of Material
31.	Mechanical Engineering	Fluid Mechanics and Fluid Machineries
32.	Mechanical Engineering	Thermodynamics
33.	Mechanical Engineering	Measurement
34.	Mechanical Engineering	Manufacturing Technology
35.	Nuclear Science and Technology	Nuclear lab
36.	Biomedical Engineering	Anatomy & Physiology Laboratory
37.	Biomedical Engineering	Biomedical Instrumentation Laboratory
38.	Biomedical Engineering	Biomedical Equipment Laboratory
39.	Biomedical Engineering	Bio signal Processing Laboratory
40.	Biomedical Engineering	Biomedical Image Processing Laboratory
41.	Biomedical Engineering	Pathology and Microbiology Lab
42.	Biomedical Engineering	Biomaterials & Tissue Engineering Laboratory

### 2.5.2 List of faculty members

S. No.	Name	Designation	Deptt.	Qualification	Specialization
1.	Prof. V.K. Jain	Dean	CSE	PhD (CSE) M. Tech (CS)	ERP, RFID and EDI Technologies, IT enabled SCM, e- Governance, Software Engineering, Total Quality Management and Research Methodology
2.	Dr. A. Senthil	Associate Prof. (HOD)	CSE	Ph.D. M.Tech. (CSE) B.E. (CSE)	Cellular Automata, Computational Epidemiology
3.	Dr. Vinod Maan	Associate Prof.	CSE	Ph.D. M.Tech. (CS)	Mobile Networks, Algorithms
4.	Dr. Ajay Kumar Singh	Associate Prof.	CSE	Ph.D. M.Tech. (IT) B.E. (CSE)	Image Analysis, Computer Vision, Machine Recognition
5.	Dr. Anil Saroliya	Associate Prof.	CSE	Ph.D. M.Tech. (CSE) B.E. (IT)	P2P Computing, DHT Overlay Networks, Distributed Networks, FOG Computing
6.	Dr. S.S. Verma	A.P.	CSE	Ph.D. M.Tech.(CSE)	MANET, Networking
7.	Dr. Prateek Bhanti	A.P.	CSE	Ph.D. M.Tech.(IT)	E-Governance, MIS, AI
8.	Dr. Sanjeev Patwa	A.P.	CSE	Ph.D. M.Tech. (IT)	Software Engineering, Software Testing, Social Sites
9.	Dr. Puneet Kumar	A.P.	CSE	Ph.D. M.Tech. (CS)	Algorithms, e Governance
10.	Dr. Anand Sharma	A.P.	CSE	Ph.D. M.Tech. (IT) B.E. (IT)	Quantum Cryptography, Network/Information Security
11.	Dr. Niranjana Lal	A.P.	CSE	Ph.D. M.Tech. (IT) B.E. (IT)	Database, Data Mining, Big Data, Cloud Computing
12.	Dr. Uma Kumari	A.P.	CSE	Ph.D. M.Tech. (CS) B.E. (CS)	Software engineering, Web Technologies, Wireless sensor networks
13.	Dr. Vikas Raina	A.P.	CSE	Ph.D. M. Tech.	Underwater Wireless Sensor Networks
14.	Mrs. Aditi Kajala	A.P.	CSE	Ph.D.* M.Tech. (CSE)	Fault Testing in Digital Circuits, Algorithm Design

15.	Mr. P.K. Bishnoi	A.P.	CSE	Ph.D.* M.Tech. (CSE)	Web Engineering
16.	Mr. Hitesh Jangir	A.P.	CSE	M.Sc. (CSE) B.E. (IT)	Internet of Things, Cyber Security, Artificial Intelligence and Data Mining
17.	Mr. Ajay Kumar	A.P.	CSE	Ph.D.* M.Tech. (CSE) B.E. (CSE)	Wireless Sensor Networks, Computer Graphics
18.	Mr. Suneet Gupta	A.P.	CSE	Ph.D.* M.Tech. (CA) B.E. (CE)	Medical image Processing
19.	Mr. Manmohan Sharma	A.P.	CSE	Ph.D.* M.E. (Software Systems) B.E. (Electrical)	Cloud Computing, Software Testing, Networking
20.	Mr. Vishal Sharma	A.P.	CSE	Ph.D.* M.Tech. (CSE) B.E. (CSE)	Computer Network, Network Security, Information Security, IOT
21.	Mr. Siddhanta Kumar Singh	A.P.	CSE	Ph.D.* M.Tech. (CSE) B.E. (CSE)	Programming and Software Testing
22.	Mr. Vinay Verma	A.P.	CSE	M.Tech. (CSE) B.E. (IT)	
23.	Mr. Rajesh Yadav	Lecturer	CSE	Ph.D.* M.Tech. (IT)	Cloud Computing
24.	Mr. Somil Jain	Lecturer	CSE	Ph.D.* M.Tech. (CSE) B.Tech. (CSE)	Computer Networks, E-Governance
25.	Ms. Sonal Shukla	Lecturer	CSE	M.Tech. (CSE) B.Tech. (IT)	Cloud security, Search Engine, Optimization, Search Engine Algorithm updates
26.	Prof. Partha Pratim Bhattacharya	Professor	ECE	Ph.D. M. Tech. (Microwaves)	Wireless Networks
27.	Dr. Rajeev Pourush	A.P.	ECE	Ph.D. (Microwave Engineering)	Microwave Microstrip Planar structures & Antenna Systems
28.	Dr. Uma Nirmal	A.P.	ECE	Ph.D. M.Tech. (VLSI Design) B.E. (ECE)	VLSI Design, MEMS Technology
29.	Dr. Gaurav Dhiman	A.P.	ECE	Ph.D. M.Tech. (VLSI) B.Tech. (ECE)	Semiconductor Device Modeling, VLSI Design

30.	Dr. Purnima Sharma	A.P.	ECE	Ph.D. M.Tech. (ECE) B.Tech. (ECE)	Multiband and Ultra Wide band Antenna design
31.	Dr. Jeetu Sharma	A.P.	ECE	Ph.D. M.Tech. (VLSI and Microelectronics) B.E. (ECE)	Wireless Sensor Networks in Smart grid
32.	Dr. Ranjana Thalore	A.P.	ECE	Ph.D. M.Tech. (ECE) B.Tech. (EI&C)	Energy-Efficient 3-D Wireless Sensor Networks
33.	Mr. Satyajit Anand	A.P.	ECE	Ph.D.* M.Tech. (ECE) B.E. (ECE)	Digital Signal Processing, Biomedical Signal Processing, VLSI Signal Processing
34.	Ms. Suneetha Rikhari	A.P.	ECE	Ph.D.* M.Tech. (SSP) B.E. (ECE)	Digital Image Processing
35.	Dr. Sandeep Jaiswal	A.P.	BME	Ph.D. (BME) M.Tech. (BME) M.Sc. (Physics)	Biomedical Signal and Image Processing, Effects of Non-thermal Radiation On Biological System, Medical Imaging, Biomechanics
36.	Mr. Kaushal Kumar Mahato	Lecturer	BME	Ph.D.* M.E B. Pharma	Biosensor, Biomaterial, Nanomaterial & Controlled Release System
37.	Mr. Nitesh Kumar Singh	Lecturer	BME	M.Tech. (Biomedical Engineering) B.Tech. (BME)	Biomedical instrumentation, Biomedical image processing
38.	Dr. Sudhir Y Kumar	Professor (HOD)	EE	Ph.D. M.Tech. (Power System) B.Tech. (EE)	Power system, Renewable Energy, Smart Grid
39.	Dr. Thoudam Paraskumar Singh	A.P.	EE	Ph.D. M.Tech. (Power Electronics) B.Tech. (EEE)	Power Electronics & Drives, Energy Storage, Renewable Energy & Smart Grid
40.	Dr. Sunita Kumari	A.P.	EE	Ph.D. M.Tech. (Power System) B.E. (EE)	Non Linear Control Systems, Power Electronics & Drives, Power System
41.	Dr. Nitin Johri	A.P.(HOD)	ME	Ph.D. M.E. (Design of Mechanical Equipments) B.Tech. (ME)	Natural fiber reinforced composites, modeling and simulation, Structural analysis, processing of polymers and polymer

					composites
42.	Dr. Atul Kumar	A.P.	ME	Ph.D. M.Tech. (Production) B.Tech. (ME)	Composite Materials, Manufacturing science
43.	Dr. Sanjeev Jakhar	A.P.	ME	Ph.D.(ME) M.Tech. (Thermal Engg.) B.Tech. (ME)	Thermal engineering, Solar energy, Passive building energy savings, Heat transfer systems and Thermodynamics analysis of systems.
44.	Dr. Vivek Pandey	A.P.	ME	Ph.D.(ME) M.Tech. (Thermal Engg.) B.Tech. (ME)	I.C. Engine, Bio-Fuels, Renewable energy sources.
45.	Mr. Vikrant Sharma	A.P.	ME	Ph.D.* M.Tech. (Manufacturing System Engineering) B.E. (Production Engineering)	Industrial Engineering, Production Engineering
46.	Mr. Mukul Kant Paliwal	A.P.	ME	M.Tech. (Machine Design) B.Tech. (ME)	Machine Design
47.	Prof. N.K. Joshi	Professor (HOD)	NST	Ph. D. M. Sc. (Physics)	Nuclear Technology, Plasma Devices, Modeling & Simulation, Nano Particle generation.
48.	Dr. Sudatta Ray	A.P.	NST	Ph. D. (Nuclear Physics) M.Sc. (Physics)	Experimental Nuclear Physics
49.	Mr. Adithya Nair A	Lecturer	NST	M.Tech (Nuclear Science) MS (Sustainable Nuclear Engineering) B.Tech (EE)	
50.	Ms. Vagisha Nidhi	Lecturer	NST	M.Tech (Nuclear Science) MS (Sustainable Nuclear Engineering) B.Tech (Biotechnology)	Radiation-Oncology and Cancer Therapy, Nuclear Medicine and Medical Radiation Physics, Radiobiology, Environmental impact of nuclear radiation.

### 2.5.3 List of Non-Teaching Staff

S. No.	Name of Employee	Designation
1.	Mr. Sushil Pareek	Office Assistant
2.	Mr. Amit Soni	Office Assistant
3.	Mr. Amit Mittal	Supervisor
4.	Mr. Sanjeev Kumar Sharma	Sr. Lab Technician
5.	Mr. Ramji Lal Saini	Lab Assistant
6.	Mr. Vikram Singh Saini	Lab Technician
7.	Mr. Vijendra Singh	Lab Technician
8.	Mr. Sunil Kumar Sharma	Lab Technician
9.	Mr. Madhav Gopal Sharma	Lab Technician
10.	Dr. Manoj Kumar Khinchi	Lab Technician
11.	Mr. Vinod Saini	Lab Assistant
12.	Mr. Bhawani Shanker Sharma	Lab Technician
13.	Mr. Pramod Kumar Saini	Lab Technician
14.	Mr. Ramesh Kumar	Workshop Mechanic
15.	Mr. B.L.Meel	Workshop Mechanic
16.	Mr. Pankaj Kumar	Lab Technician
17.	Mr. Bharat Singh Shekhawat	Lab Technician
18.	Mr. Ram Swaroop	Workshop Attendant
19.	Mr. Ravi Kumar Chomal	Lab. Technician
20.	Mr. Satya Narayan Panchal	Senior Lab Technician
21.	Mr. Rajnish Dalal	Laboratory Technician, ECE
22.	Mr. Kartik Sharma	Lab. Technician
23.	Ms. Manju Kumari	GNM
24.	Ms. Kanchan Nayak	GNM
25.	Ms. Ankita	ANM
26.	Ms. Sarita Kumari	ANM, 12S2
27.	Ms. Nathi Chahar	ANM
28.	Ms. Prem Kumari Rao	ANM

### 3. DEPARTMENTAL ACTIVITIES

#### 3.1 Department of Computer Science and Engineering

The Department of Computer Science & Engineering (CSE) is involved in providing quality education at Undergraduate (UG), Post Graduate (PG) and Doctoral Levels. The department imparts world class education, training and research. The contents of the courses under the department are continuously updated and the laboratories modernized to incorporate the rapid changes in technology and industry. The department also promotes active industry-institute collaboration by identifying areas of interest and taking part in sponsored research projects and consultancy services.

The department is committed to prepare Engineers who are highly sought after, productive, and well-respected for their work, and who contribute to new developments in computing. Also the department gives students in other disciplines an appropriate foundation in computing for their education, research, and experiences after graduation.

##### ➤ Objectives of the Department

- To provide students with a strong foundation in mathematical, scientific and engineering fundamentals so as to comprehend, analyze, design and create products/ solutions for automation of real life processes.
- To inculcate in students professional and ethical attitude, effective communication skills, leadership, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context.
- To provide student with an academic environment with awareness of excellence, and the life-long learning needed for a successful professional career.

##### ➤ Short Term Goals of the Department

- To achieve academic excellence.
- To place students in reputed industries.
- To develop state of the art laboratories.
- To train faculty members in the advanced domains of computer science
- Joint collaboration with reputed premier institutions and research organizations.
- To carry out quality research work.
- To impart technical training & soft skills

##### ➤ Long Term Goals of the Department

- To establish the department as an ideal learning centre in teaching & research.
- To establish centres of excellence in various fields of computer science.
- To enhance Industry Institute interaction.
- To meet the social, ecological and ethical needs of the region.

## ➤ Workshops organized

1. The workshop on “**Ethical Hacking**” was organized from **26<sup>th</sup> – 28<sup>th</sup> July 2018** in association with i3indya Technologies Noida, Uttar Pradesh” at SET by Computer science & engineering Department. Dr. Anand Sharma and Dr. Niranjana Lal were the coordinators for this workshop from SET and Mr. Nitesh Bhatia, (Cyber Security Analyst, i3indya Technologies) was the resource person for the sessions. He covered various topics like Theoretical knowledge of hacking-related tools, Social media Hacking-Facebook hacking, System hacking: Windows 7, Windows 8.1, Windows 10 hacking and theoretical knowledge about Wi-Fi hacking. In workshop total 118 students participated, from different Schools of Mody University of Science & Technology, Lakshmanagarh, Sikar (Rajasthan), India. 6 Students were selected to participate in National Level Competition, CYBER DISEASE, to be held on 16<sup>th</sup>- 17<sup>th</sup> March 2019 at IIT Bombay.



2. The workshop on “**IoT Challenges**” was organized from **26<sup>th</sup> – 28<sup>th</sup> July 2018** in association with i3indya Technologies Noida, Uttar Pradesh at SET by Computer science & engineering Department. Dr. Anand Sharma and Dr. Niranjana Lal were the coordinators for this workshop from SET and Mr. Ravi kant, Mr. Rishabh Singh (Embedded Engineer, i3indya Technologies) were the resource persons for the technical and hands on session. They covered various topics including, A full explanation of ATmega16 microcontroller and its components and sensors, glowing LED in increasing order and pattern LED blinking with the buzzer, toggling bits of code B, Understanding the serial peripheral interface and Sending data to the server using Hercules. In workshop total 58 students participated, from different Schools of Mody University of Science & Technology, Lakshmanagarh, Sikar (Rajasthan), India. 4 Student Groups have been selected to participate in National Level Competition: “IoT Challenges 2019 to be held on 16<sup>th</sup>- 17<sup>th</sup> March 2019 at IIT Bombay.



3. The workshop on “**Machine Learning with Python**” was organized from **30<sup>th</sup> -31<sup>st</sup> July, 2018** by School of Engineering and Technology (SET), Mody University of Science and Technology. The workshop was supported by ECE department and Robota (Robotic society of SET). The workshop instructors were Mr. Ketan and Ms. Ayushi Srivastava from Technest Jaipur. Total of 102 students participated in the workshop. The workshop covered topics such as introduction and need of Machine Learning, Running Machine Learning on a Linux platform, importance of Linux and introduction to vector machine. The students were taught to design a ML system for real datasets by using the concept of Neural Networks, Image searching, loading image with cloud library, Registering image for training model, training image datasets, recognition of different images to detect face and deregistering images from cloud library. The second project that the students were taught to develop was an AI based Door Access using face recognition technique.



4. Dr. Pinaki Ghosh from CSE Department visited Delhi Public School, Jaipur on **17<sup>th</sup> Oct, 2018** and conducted an interactive session on “**Internet of Things**”. Students of 11<sup>th</sup> and 12<sup>th</sup> class participated in the session. Introduction to IoT, various applications of IoT, future scope and career opportunities were discussed in the program.



5. Mr. Hitesh Jangir from CSE Department visited Apex School, Fatehabad and DAV School, Fatehabad in Haryana on **30<sup>th</sup> Dec 2018 and 1<sup>st</sup> Jan 2019**. Mr. Jangir interacted with the students of 11th and 12th standard through the seminar on **IOT and Underlying Technologies**. To grab the attention of the students the content was delivered with powerful visualisations and video clips.



6. Dr. Anil Saroliya from CSE Department visited the following engineering colleges to give a presentation on **"Internet of Things and Fog Computing"**:

- Sobhasaria Engineering College, Sikar on **21<sup>st</sup> January 2019**
- Rajasthan Institute of Engineering & Technology, Jaipur on **30<sup>th</sup> January 2019**
- Rajasthan College of Engineering for Women, Jaipur on **31<sup>st</sup> January 2019**

The presentations were highly interactive, and the participants have shown interest by providing valuable thoughts for the implementation of IoT enabled solutions which are truly required by our society.



7. A workshop on **"Virtual Lab"**, IIT Delhi (An Initiative of MHRD under NMEICT) was organized by School of Engineering & Technology, Mody University of Science & Technology on **1<sup>st</sup> March 2019**. Mr. Prateek Sharma and Mr. Ashish Mudgil (V-Lab Workshop In-charge and Mentors, IIT Delhi) conducted the full day workshop for First & Second year students (300 approximately) of SET and

for engineering faculty members. This workshop was coordinated by Dr. Anil Saroliya, Associate Professor, Department of CSE, SET. The first session of the workshop is conducted for the students. The Virtual Lab project was described in detail by explaining how the VLab is developed in self-learning mode, and provides a complete 'Learning Management System' that includes web resource, animations, simulations, etc. It also provides a unified platform for students from all engineering institutes. These labs can be accessed with the help of the Internet anywhere and anytime. The main emphasis of this Virtual lab is performing all the experiments on open source tools. The second part of the workshop was conducted for SET faculty members; they were also trained in their respective subject related experiments. The session was concluded with a question/answer round.



8. A workshop on “**Design Thinking**” was organized by School of Engineering & Technology in association with IBM on **April 20, 2019**, Mr. Manish Vashist, IBM Design Director conducted the full day workshop for IET student members of SET. The event was coordinated by Dr. Anil Saroliya and 32 students participated in this synergistic event. The session was quite interactive with hands on experiences and practical applications. Mr. Vashist introduced the students to the basics of design thinking and explained how “Design is a process rather than an outcome” through a series of fun activities. Initially, the students were divided into groups of 5-6 members and were made to decide upon different problem-statement. He taught the students to emphasize on the identification of problems rather than focusing on the solutions.





9. Five day workshop on “**Data Analytics**” has been conducted by IBM research center for CSE faculty members at CSE-PG Lab from **3rd June 2019 to 7th June 2019**. This workshop was conducted under the MOU between Mody University of Science and Technology and IBM, which aim to develop research excellence in the area of Machine Learning and Data Analytics. The workshop was lead by the resource person Ms. Nivedita Sinha, Technical Consultant - IBM Analytics & Data Science. A total of 11 faculty members of CSE department participated in the workshop which delivered content regarding data analytics and machine learning algorithms and gave practical exposure to the tools such as SPSS Modeler, IBM WATSON etc. used in IT industry for the same. The participants were assigned group projects on data analytics followed by a presentation on the second last day of the workshop. The predictive models as Digging deeper - ANN, Decision trees, CHAID, Time series forecasting etc has been explored in entire workshop. She had also discussed various case studies with the participants. The workshop was ended with vote of thanks by IBM coordinator Dr. Ajay Kumar Singh Associate Professor CSE Department.





<b>AGENDA - ANALYTICS WORKSHOP</b>	
<b>Day 1</b>	<b>Topics</b>
9.30 - 11.15 am	Analytics, Data Science - Overview
11.30 - 1.30 pm	Predictive Analytics - Methodology
2.30 - 4.15pm	Watson Studio - Overview, Modeler Flow
4.30 - 6 pm	Watson Studio - Using Jupyter Notebooks
<b>Day 2</b>	
9.30 - 11.15 am	Predictive Analytics - SPSS modeler
11.30 - 1.30 pm	Data preparation, Data exploration-Charts/graphs/scatterplots,etc
2.30 - 4.15pm	Clustering, Building models, Evaluating Models
4.30 - 6 pm	Predictive Models - Digging deeper - ANN, Decision trees, CHAID, etc
<b>Day 3</b>	
9.30 - 11.15 am	Predictive Models - Digging deeper - ANN, Decision trees, CHAID, etc
11.30 - 1.30 pm	Predictive models - Time series forecasting
2.30 - 4.15pm	Exercise - Create a Predictive analytics project
4.30 - 6 pm	Exercise - Create a Predictive analytics project
<b>Day 4</b>	
9.30 - 11.15 am	Presentation of project
11.30 - 1.30 pm	Presentation of project
2.30 - 4.15pm	Watson Studio - Visual recognition
4.30 - 6 pm	Watson Studio - Natural Language processing
<b>Day 5</b>	
9.30 - 11.15 am	Customer references/Use case demo : Time series
11.30 - 1.30 pm	Use case 2 : Employee attrition model
2.30 - 4.15pm	Question/Answers/Feedback

**List of Participants**

S.No.	Faculty Name	Deptt.
1.	Dr. Anand Sharma	Computer Science and Engineering
2.	Dr. A. Senthil	Computer Science and Engineering
3.	Dr. Anil Saroliya	Computer Science and Engineering
4.	Mr. Ajay Kumar	Computer Science and Engineering
5.	Dr. Ajay Kumar Singh	Computer Science and Engineering
6.	Dr. Niranjana Lal	Computer Science and Engineering
7.	Mr. Vishal Sharma	Computer Science and Engineering
8.	Dr. Sanjeev Patwa	Computer Science and Engineering
9.	Dr. Prateek Bhanti	Computer Science and Engineering
10.	Mr. Rajesh Yadav	Computer Science and Engineering
11.	Mr. Vinay Verma	Computer Science and Engineering

**Seminars/Technical fest/Guest Lectures**

1. UTKARSH: CSI Student Branch-MUST, organized a seminar on **“GOOGLE and It’s Services”** in association with CSI Lakshmangarh Chapter on **16<sup>th</sup> October 2018 at ABB-01, SET, Mody University of Science and Technology, Lakshmangarh.** The seminar was presented by the coordinators from UTKARSH under the guidance of Dr. Anand Sharma, SBC, CSI-MUST. Many unexplored facts about Google were explored on the day. Latest projects which fulfill the demands of the generations launched by Google like, “Project LOON”, “Project SOLI”, and “Google SMART LENSES” were discussed. Around 45 students participated in the seminar and they were introduced to 150+ services offered by Google. Many quizzes and rapid-fire rounds were conducted in which all the registered candidates participated enthusiastically and had a lot of fun. Different attractive prizes were distributed among the winners of the quizzes and all other rounds.



**2. Droid 2.0**, a two day technical fest was conducted by School of Engineering and Technology, Mody University of Science and Technology on **22-23 Feb, 2019**. The event was initiated by the inaugural ceremony at Sangeet Samrat Tansen Sabhaghar. The dignitaries present in the ceremony are Prof. Venu Gopala Rao (Director Academics, MUST), Dr. V.K. Jain (Dean-SET), Ms. Sunayna (Admin and Communications Manager, SWE, India), Shri. B.M. Bhamu (Guest of Honor, OSD, Energy Dept., Govt. of Rajasthan), Prof. H.D. Charan (Chief Guest of the event, Vice Chancellor, Bikaner Technical University, Bikaner), Dr. A. Senthil (HoD-CSE) and Dr. Anand Sharma (Coordinator-Droid 2.0). The events conducted during the fest were Poster presentation, Hardware Project Presentation, Coding Competition and Mobile App Development Workshop. More than 220 students participated in various events. The workshop was conducted by professionals from Go EduHub Technologies, Jaipur.

The winning teams from the posters were "Sketch It Tech" (Ms. Barkha Sharma, Ms. Varnika Singh, Ms. Sanjoi Dubey) and "E-emigrants" (Ms. Kalyani Verma, Ms. Poorva Tiwari). The team who bagged the top position was Team "SS" (Ms. Shivangi Rathore, Ms. Shristi Vyas) and team "Beacon" (Ms. Divyanshu Agrawal, Ms. Vandita Vyas, Ms. Saumya Sharma, Ms. Anisha Gautam) were the runner ups.

The enthusiastic coding teams presented their innovative notions on "Crowd Funding". The assessment of coding event was done by Dr. Anil Saroliya and Dr. S.S.Verma. "Coding titans" (Mr. Vishal Sharma, Mr. Yashwant Soni) and "Gbytes" (Ms. Gunjan Bhatnagar, Ms. Grisha Jain) were the winners of the coding competition. The winners of the competitions received a cash prize of INR 5000/- and 3000/-.

Droid 2.0 was successfully concluded with prize distribution and valedictory ceremony with Prof. Anriban Sengupta, Dean SMS, Prof. N.K. Joshi, HoD-NST, Dr. Anand Sharma, Secretary CSI Lakshmanagarh Chapter, Ms. Samridhi Mehta, Convener, Utkarsh and Ms. Navya Mathur, Co-Convener, Utkarsh at the Dais. The winners were awarded with certificates and cash prizes worth INR 19,500/- and all the participants were felicitated with certificate of participation.





## Other activities organized/conducted by the CSE

### 1. Workshop on AI and Deep Learning at Galgotias University (17-19, July, 2018)

Mody University of Science and Technology is a one of the Lead Partner of a nationwide initiative on "AI and deep learning Skilling and Research" funded by Royal Academy of Engineering, UK under Newton Bhabha. University College, London, Brunel University, London and Bennett University, India are collaborators of the project. NVIDIA and AWS Educate, Videoken and Edvantics are industry partners. On the Behalf of Mody University Dr. Puneet Kumar, Dr. Sourabh Singh Verma and Mr. Hitesh Jangir attended the workshop on AI and Deep Learning at Galgotias University, Greater Noida, U. P. during July 17, 2018 to July 19, 2018. Since the accommodation facility was not available at Galgotias University, hence we stayed in budget hotels in Greater Noida.

In this three-day workshop first two day devoted on Deep Learning and last day The NVIDIA Deep Learning Institute offers hands on training for developers, data scientists and researchers, looking to solve challenging problems with deep learning. There were around 60 participants from different colleges and universities participated in the workshop from various parts of India. Professor Deepak Garg, Director leadingindia.ai started the session. In the first half of the Day 1 Prof. Garg delivered lectures on Fundamentals and Need of Deep Learning, Machine Learning Basics, Linear Regression, Logistic Regression Gradient Descent. After Lunch Dr. Sridhar Swaminathan (Post Doc, Bennett University) delivered a talk on Designing & Optimizing Neural Network Model, Building Deep Models and Hyper Parameter Tuning & Deep Learning Hacks. The hands on exercises will be facilitated by Dr. Suneet (Bennett University).

In Second day session started with discussion of Convolutional Neural Network & Computer Vision with CNNs by Prof. Biswas (Retd. Professor from IIT Delhi and currently Dean at Bennett University) and in second session following topics Recurrent Neural Network Sequence Modelling with RNNs, Auto encoders, generative modelling in Deep Learning were discussed by Dr. Sridhar Swaminathan.

Day three Started with a quiz session. An online questionnaire containing 40 questions was given to participant of this workshop with time duration of 40 minutes. All three of us have cleared the examination successfully. After quiz session Hands on training Image Classification, Object Detection & Neural Network Deployment with DIGITS and Tensor RT (lab) provided by NVidia. Finally, the workshop was concluded by Pro Vice-Chancellor, Prof. Rakesh Shankar of Galgotias University.



2. Prof. V. K. Jain, Dean-SET and Prof. P. P. Bhattacharya attended “**IOT India Congress**” organized by IET and Exhibition India during **9<sup>th</sup> to 10<sup>th</sup> October, 2018** at NIMHANS Convention Centre, Bangalore. It has been a fabulous 3rd edition of the IoT India Congress with over 2,000 attendees, 113 speakers, 16 partners, 50 exhibitors and 20 supporting associations.

Prof. V. K. Jain took part in the Panel Discussion on IOT – Upskilling Higher Education as an Expert along with representatives of other sponsoring Institutes. He discussed how the concept of our Prime

Minister, Sri Narendra Modi's concept on "Beti Bachao, Beti Padhao" is followed in our University since last 28 Years and how through Project Based Learning and Industry Collaborations our Institute is contributing in the progress of IoT.



3. Dr. Anand Sharma (Asst. Prof., CSE) has been invited as "**Session Chair**" to chair the session on "**Next Generation Network Security**" in "**4<sup>th</sup> International Conference on Cyber Security (ICCS 2018)**" held at Suresh Gyan Vihar University, Jaipur, India on **October 26-27, 2018**. The proceedings of this conference will be included in ELSEVIER-SSRN Digital Library, which is indexed in Scopus. The vision of the session was to focus on network security for the next generation, specifically on the developing security protocols to consider: new definitions of cyber security, new frameworks for the cyber security, and new directions for the awareness regarding cyber security.

4. Three girls Ms. Muskan Singla, Ms. Navya Marthur, Ms. Twinkle Baradia of B.Tech CSE fourth year has been shortlisted for the AICTE Vishwakarma Awards 2018. All shortlisted applicants are eligible to participate in the Regional Convention of the AICTE-ECI-ISTE Chhatra Vishwakarma Awards 2018, scheduled to be held at their Regional Venues in the last week of October 2018. They are working on pollution control sensors under **Software Development Cell** of SET. The top five selected teams in each category and in each region will be called for the National Convention of 2nd AICTE-ECI-ISTE Chhatra Vishwakarma Awards 2018 at AICTE HQ's in Delhi on 2nd week of November, 2018.

5. Dr. Niranjana Lal Chaired as a "**General Chair**" in **International Conference on Future Computing and Communication Technology (ICFCCT-2018)** held at MIET, Meerut, India on **Dec 22, 2018**.



6. Dr. V.K. Jain, Dean-SET has been selected as a member of Board of Studies of Information Technology at **Texila American University**.

7. Dr. Puneet Kumar qualified **UGC-NET** Exam in Computer Science and Applications held in **December-2018**. The test has been conducted by National Testing Agency (NTA), Government of India.

8. SET has taken active participation on Spoken Tutorial Project launched by IIT Bombay about **Free and Open Source Software (FOSS)** for six months. This course is on python programming and was coordinated by Mr. Manmohan Sharma, Dr. Vinod Mann and Ms. Purnima Sharma. During the online test which was conducted on **18<sup>th</sup> January 2019**, 60 students of CSE and ECE department got the successful participation certificate from IIT- Bombay.

9. Dr. Sanjeev Patwa participated as Session Chair and Member Review Committee in **2<sup>nd</sup> International Conference on Advanced Computing and Software Engineering (ICACSE-2019)**, held on **08-09 Feb 2019** at KNIT, Sultanpur (U.P).



10. Mr. Sudhanshu Sinha, GMCDC and Mr. Hitesh Jangir, Assistant Prof. CSE Dept. participated in **INFOSYS TQ SUMMIT 2019** held at Infosys Limited, Mysore on **14-15 Feb, 2019**. It's a next-generation learning and engagement platform for engineering students, to help them increase their 'talent and technology quotient' and be 'Industry Ready' by the time they complete their graduation.

This platform will engage students closely with Infosys while learning technologies, which are relevant today and in the future. The members got the opportunity of meeting and networking with the high level top brass executives and officials of Infosys, which may benefit the university in long run as an Institute.



11. SET- Mody University of Science and Technology hosted live webcast on **“Drug Free India”** conducted from Hissar, Harayana as per the request from Prof M. P. Poonia (AICTE Vice Chairman) On **19 Feb 2019**. This is the awareness campaign for youth to get rid of drug habits. Gurudev Shri Shri Ravi Shankar ji have given the speech to ignite the youth to leave the drug habit. Dr. V.K. Jain, Dean SET has made this session open for all the students of SET. Mr. Manmohan Sharma Assistant Professor, SET has coordinated the session.

12. Dr. Anil Saroliya, Dr. Niranjana Lal and Mr. Vinay Verma participated in the 6 days Faculty Enablement Program on **“LEX Based Foundation Program”** held online using webinar platform conducted by Infosys on **Feb 2019**. SET congratulates the faculty members for earning, such a prestigious certification.

13. Dr. Uma Kumari from CSE department of SET received **“Outstanding Teacher for Excellence”** award in a ceremony held by Institute of Technical and Scientific Research on 31<sup>st</sup> March. ITSRS provides a platform for Working Professionals to connect with Entrepreneurs, Industry Leaders, Researchers, Peers to explore association and collaborations.

14. During this year, total five faculty members were awarded or completed their PhD degree.

15. Total 10 students of CSE department had gone for internship in foreign Universities.

### 3.2 Department of Electronics & Bio-Medical Engineering

The Department of Electronics and Bio-Medical Engineering is involved in providing quality education at Under Graduate (UG) education exclusively meant for women candidates. The department has a rich tradition of teaching and research and is widely recognized to be a pioneer in Electronics and Communication Engineering education in India. As it reached its heights, more and more, it started adding PG programs in VLSI design and Wireless Communication Technology; it offers PhD programs in the areas of VLSI Design, Communication System & Engineering, Sensor Networks, Mobile and Wireless Communication etc, which provides a platform exclusively for bright young women graduates and postgraduates to conduct research in state-of-the-art technologies.

Biomedical engineers analyze and design solutions to problems in biology and medicine, with the goal of improving the quality and effectiveness of patient care. Biomedical engineers design electrical circuits, software to run medical equipment, or computer simulations to test new drug therapies. They also design and build artificial body parts such as hip and knee joints. In some cases, they develop the materials needed to make the replacement body parts. They also design rehabilitative exercise equipment. Some specialty areas within biomedical engineering include bioinstrumentation; biomaterials; biomechanics; cellular, tissue, and genetic engineering; clinical engineering; medical imaging; orthopaedic surgery; rehabilitation engineering; and systems physiology.

#### ➤ Objectives

- To train students so that they will be able to indigenously build and confidently handle electronics systems, equipment and component with creativity and critical spirit in the technological development viable for our country.
- To enable students to innovate, design and develop multi-disciplinary products and equip student with technical and communication skills in order to be able to perform in organizations globally.
- To build strong fundamental knowledge amongst student to pursue higher education and continue professional development in Electronics & Communication and other related fields.
- To enable students to design systems and products, such as artificial internal organs, artificial devices that replace body parts, and machines for diagnosing medical problems
- To train clinicians and other personnel on the proper use of equipment

The Departmental Board of Studies (BOS) and Academic Planning Committee (APC) of the department of regularly meet to decide and incorporate changes in the structure of the syllabi and its contents as per the present needs.

## ➤ Workshops organized

1. A workshop on “**Spybotics**” was organized by School of Engineering and Technology (SET), Mody University of Science and Technology from **30 July-31 July, 2018**. The workshop was supported by ECE department and ROBOTA (Robotic society of SET). Total of 22 students participated in the workshop. The workshop instructors were Mr. Saurabh Bharadwaj and Mr. Ashish Sharma from Technest Jaipur. The workshop covered following topics:

- Introduction to Robotics.
- Robots and Law of Robots.
- Future aspects.
- Need of Microcontrollers in Autonomous Robots.
- Different parts of Robot.
- Wide description about Microcontrollers.
- Wide description about Atmega 8
- Memory organization in microcontrollers.
- Input & Output peripherals in Microcontrollers.
- Resisters in Microcontrollers.
- Programming of Microcontrollers.

### **Day 1 (30<sup>th</sup> July 2018)**

#### **Practical Session**

- Interfacings of peripherals.
- Output devices interfacings.
- Programming for LED interfacings with Microcontrollers.
- Different patterns of LED blinking.

#### **Motor Interfacing Session**

- Actuators to be used in Robots.
- Wide description about L293D.
- Interfacing motor driver IC with Microcontroller.
- Interfacing of Motors with microcontrollers via L293D.
- Differential drive mechanism of Robot.

#### **Project: Development of an Autonomous Robot**

### **Day 2 (31<sup>st</sup> July 2018)**

#### **Introduction to IR sensor**

- Interfacing of IR sensor through microcontroller.
- Introduction and working of LM358 comparator IC.

**Project: Development of obstacle avoider robot.**

**Serial communication & Bluetooth Technology**

- Accessing internal USART of microcontrollers.
- Interfacing Bluetooth module with microcontrollers.
- Transmitting & receiving data wirelessly through Bluetooth of Laptop/Android mobile phone.

**Project: Bluetooth Controlled Robot via laptop.**

**Project: Bluetooth Controlled robot via Android mobile.**

**Concept of basic networking**

- Accessing camera in private network.

**Project: Spy Bot**



2. The workshop on **“Improve Research Discoveries and Identifying Paper Publication Opportunities”** by Mr. Priyank Taparia from IET was conducted at 2 PM on **15th November, 2018**. The Workshop was attended by Faculty members, PhD research scholars, M.Tech, MCA and 4th year students. The topics related to patent search, index based searching, synthesis of information, construction of paper, literature review, reading framework etc. were discussed during the workshop.



3. The 3 Days workshop On “**Industry Oriented Troubleshooting and Maintenance Technique for Medical Instruments**” organized by department of Biomedical Engineering, School of Engineering and Technology, Mody University of Science and Technology in association with Pamtrons Healthcare Devices, Mumbai at was held at Biomedical Engineering Department on **November 26-28, 2018**. The total 30 participants have participated in this workshop which includes 23 students and 06 faculty members.

During these three days, industry experts shared their insights, real life scenarios, practical use cases and their solutions on Medical instruments.

The workshop started with welcome speech by Dr. Sandeep Jaiswal. Inaugural speech was given by Prof. P.P Bhattacharya and Mr. Paresh Modh (CEO- Pamtrons).

Day -1 in first session Mr. Paresh Modh discussed about medical instruments under make in India program and role & responsibilities of biomedical engineers in hospital and industries. Mr. Nand Kumar Patil (R & D engineer, Skrip Mumbai) demonstrated design of patient monitoring system.

Day -2 Introduction on servicing and maintenance of medical instruments in hospitals was given by Mr. Jayant Patade (service engineer) and Mr. Nand Kumar Patil demonstrated ECG Signal Acquisition, Fault finding and Various servicing techniques of multichannel ECG machine gave and hands-on training on heart-rate monitoring device.

Day 3 Mr. Paresh Modh, Mr. Nand Kumar Patil and Mr. Milind Thorat gave training on design and practical consideration of advanced medical equipment's. In post lunch session a test was conducted for students and group discussion held about career and job opportunities. After group discussion Pamtrons Healthcare Devices, Mumbai had one to one interaction with students of biomedical engineering. All fourth year biomedical engineering students received Job offer from the industry. The Workshop ended with certificates distribution and vote of thanks was given by Dr. Sandeep Jaiswal.

The 3-day workshop was appreciated by all the participants and feedback has been taken for future improvements. I am thankful to Prof. V. K. Jain, Dean SET for proving all encouragement, support and facilities for this workshop.

Following instruments were also installed in the biomedical engineering laboratory:

- i.) Incubator Shaker
- ii.) Distilled Water Unit
- iii.) Autoclave
- iv.) Shore Hardness Meter
- v.) Water bath
- vi.) Regulated Power Supply
- vii.) 32 channel EEG Machine
- viii.) Soldering Station
- ix.) Doppler ultrasound (blood flow meter)
- x.) Interferential Therapy (IFT) 4 in One
- xi.) Injection & Blood Sampling Practice Model Type
- xii.) Multipurpose Injection Training Arm
- xiii.) Stress Test System (TMT) wireless
- xiv.) Heart Lung Machine (Demo)
- xv.) Dialysis machine (Demo)

- xvi.) X-Ray Machine (Demo)
- xvii.) CT imaging System (Demo)
- xviii.) Ventilator Machine Demo
- xix.) Anesthesia Machine Demo
- xx.) Goniometer (Manual)
- xxi.) Half Body CPR Manikin



4. A webinar on “**Human-Autonomy Teaming in the context of Unmanned Air Transportation**” was organized by SET on **April 18, 2019**. The Lecture was delivered by Prof. Kamesh Namudri from Department of Electrical Engineering, University of North Texas, USA. The aim of this webinar was to provide a platform to students where they can interact with international expert and try to seek and learn about as many opportunities as possible in latest technical and emerging research areas around the globe particularly in USA. Around 35 students participated in the session. Dr. Rajeev Pourush, the coordinator of the event started the session by introducing the speaker and guided the attendees through the brief description of the purpose to conduct webinar on Human-Autonomy Teaming in the Context of Unmanned Air Transportation. The presentation was focused on the major projects that the UNT organization is presently working on. The session was concluded with an answer and answer round where the speaker clarified all the queries of the students. The webinar proved to be informative for the students who would like to study abroad.



### Seminars/Technical fest/Guest Lectures

1. Prof. P.P. Bhattacharya was invited as a Guest Speaker at International Conference on **"Research Aspects in Renewable Energy, Green Technology, Engineering and Environmental Science and its Application for Development of Rural India"** in J J Tibrewala University on **17th November, 2018**.



2. Prof. P. P. Bhattacharya attended the Curtain Raiser to **"IoT India Congress"** event on **March 12, 2019** in Hotel le Meridian, New Delhi. The theme of the event was Mainstreaming the Internet of Things. The IoT India Congress will be held during **August 22-23, 2019** in Bangaluru. Mr. Shekhar Sanyal, Country Head of IET discussed about different Working Groups of IET. Two more Working groups on Automotive and Banking will also be added soon. This was followed by the Launch Video of IoT India Congress 2019. Next, the Brochure of IoT India Congress was unveiled in the event. Industry Partners like Aeris and Unlimit (A Reliance Group Company) gave their presentation. This was followed by Live Solutions to Industry Challenges by Experts. In the post lunch session, IET Delhi network meeting was conducted where Prof. Bhattacharya put up few workshop proposals for possible funding by IET.



3. Dr. Jeetu Sharma is working an Advisory Board member of **4th International Conference on Recent Multidisciplinary Research (ICRM-2019)** Central European University, Budapest, Hungary, and Europe which is going to be held during **29-30 June 2019**.

### 3.3 Department of Energy Engineering

The Department of Energy Engineering is involved in providing quality education at Undergraduate (UG), Post Graduate (PG) and Doctoral Levels. The Department of Energy Engineering comprises of three major streams like Mechanical, Electrical and Nuclear Engineering.

Board of Studies (BOS) and Academic Planning Committee (APC) regularly meets to decide the change in the structure of the syllabi and its contents as per the current needs.

#### ➤ Objectives

- To churn out women mechanical engineer having competitive edge over others in the same profession in India and abroad.
- To churn out a few students for lifelong learning in mechanical engineering.
- To train a few students for entrepreneurship.

#### ➤ Short Term Goals of the Department

- To achieve good results in the examinations.
- To place students in reputed industries.
- To develop state of the art laboratories.
- To depute faculty members for higher studies / trainings in India and abroad.
- Joint collaboration with reputed premier institutions and research organizations.
- To carry out good quality research work.
- To impart training in soft skills & personality development.

#### ➤ Long Term Goals of the Department

- To establish the department as an ideal learning, teaching & research place in the world.
- To establish centres of excellence in various fields.
- To enhance Industry Institute interaction.
- To strive hard to meet the social, ecological and ethical

#### ➤ Departmental Report:

1. Ms. Kruti Mehta (Enrolment no.:170467) from Nuclear Science and Technology department, attended a training on “**Overview of Nuclear Radiation Detection and Measurement**” at Defence Lab, DRDO, Jodhpur from **23<sup>rd</sup> May, 2018 to 6<sup>th</sup> July, 2018**.

2. Ms. Charu Sharma, M. Tech. (NST) from 2015-17 batch has been selected as Research fellow at Indira Gandhi Center for Atomic Research at Kalapkam, TamilNadu. She will be working on the “**Development of severe accident monitoring system for Nuclear Power Plant**”.

3. Prof. Narendra Kumar Joshi, Head, Department of Nuclear Science & Technology, SET, was invited to the **International Atomic Energy Agency**, Vienna from **July 9-13, 2018** to participate in International

Nuclear Security Education Network Annual meeting. He is an active member of working group -2 and has contributed in finalizing the list of equipment's required for radiation detection and measurements for nuclear security laboratory. He is also involved in developing case studies related to nuclear security. The entire trip was sponsored by IAEA, Vienna.

4. The workshop on **"PLC-SCALDA"** was organized from **31<sup>st</sup> July to 1<sup>st</sup> August, 2018** at School of Engineering and Technology (SET) by EE, ME and ECE conducted at Mody University of Science and Technology, Lakshmangarh. Starting with PLC-SCADA, they can be seen mostly in automation devices these days where you can control your home appliances using your phone sitting anywhere inside your house or far away from it. PLC-SCADA came as boon to make it more efficient for people to check on their devices and thus saving both renewable and non-renewable sources. PLC stands for Programmable Logic Controller. In today's era where speed matters and reducing labour cost and time is the main concern, PLC brings various ways to make work easy. PLC devices are used in automatic water filling industries, coffee machines, industries and many more. The software's used in the workshop are RS LINUX for communication, RS LOGIC for programming and RS EMMU- LATOR for simulation.



5. An industrial visit was organized at **"Aksh Optifibre Ltd."**, Reengus", on **July 28, 2018** comprising of 8 students of 2nd and 3rd year Mechanical Engineering and one faculty member - Dr. Nitin Johri. Visit started with a formal address by "Mr. Munesh Chandra" (Plant Head) and their team followed with Training Schedule (Enclosed), plant visit, query session and formally ended with lunch and group photograph. Students had an exposure of production facilities of GFRP (Glass Fibre reinforced Plastics) / ARP (Aramid Fibre reinforced plastics) on thermal and ultra violet systems involving use of "Pultrusion process" for fabrication of fibre optic cable and Quality control & learnt various mechanical testing methods of finished FRP composite product . Students were exposed to:

- Raw material, Planning and Production facilities
- Putrusion process of FRP composite rods fabrication
- Packaging
- In process testing
- Quality control



Outcome of the visit involved technical knowhow of a FRP composite product – for various applications, practical knowledge and technical skills required.

6. Mechanical Engineering Department, organized “**Vishwakarma Puja**” on **15<sup>th</sup> September, 2018** to pay obeisance to Lord Vishwakarma who is regarded as the god of architecture and engineering. On this occasion, SET inaugurated the newly built Mechanical Workshop.



7. Dr. Sanjeev Jakhar, AP, mechanical engineering department participated in **6<sup>th</sup> Indo-German workshop on sustainable manufacturing & entrepreneurship**” dated on **September 17-18, 2018** jointly organized by BITS Pilani and TU Braunschweig, Germany. The objectives of the workshop were to raise awareness and train/educate the participants about the role of sustainability in manufacturing, new concept of learning factories, industry 4.0, and role of entrepreneurship. The workshop was intended for the managers working in the manufacturing organizations, budding entrepreneurs and faculty/students/consultants working in the area of engineering & entrepreneurship. The hands-on training was provided on the FESTO MPS systems and life cycle assessment (GaBi and Umberto).



8. Three students from the department of Nuclear Science and Technology: Ms. Titiksha Joshi, M.Tech., Ms. Kruti Mehta, B.Tech., NST II Year and Tanvi Agarwal, NST II Year along with Ms. Vagisha Nidhi – Lecturer NST, attended a three days International Training Course on ‘**Nuclear Security For Scientists, Technicians And Engineers**’ from **25-27 Sep, 2018**, organized by Amity University, Noida under the guidance of ‘WORLD INSTITUTE FOR NUCLEAR SECURITY’ ACADEMY – Vienna, Austria. The training course consisted lectures and tutorials from international and national experts on various aspects of Nuclear Security. The table-top exercise, called NSITE (Nuclear Security Insider Threat Exercise) gave a clear idea of nuclear security regime. The three day training was fully sponsored by WINS Academy.



9. Prof. N. K. Joshi was invited to take a discussion on “**Nuclear Energy**” in Mega Education Fare held on **3<sup>rd</sup> Oct., 2018** at Maheshwari Higher Secondary School, Jaipur. The session was attended by students and faculty.

10. Prof. N. K. Joshi was invited to attend one day workshop as a resource person at RTU, Kota. He gave a presentation on “**Scope, Importance and Challenges**” in starting a new B. Tech. Course in Nuclear Science & Technology.

11. Ms. Vagisha Nidhi from department of Nuclear Science & Technology conducted one hour Workshop on “**Nuclear Science & Technology**” at St. Mary School, Udaipur on **27<sup>th</sup> Oct., 2018**. More than seventy students and faculty members of the school participated in this interactive session.

12. An industrial visit was organized at “**Bharat Heavy Electricals Limited (BHEL)**” Haridwar, on **15/11/18** and “**Chilla Hydroelectric Power Plant**” Haridwar, on **16/11/18** comprising of 15 students of 2nd and 3rd year Mechanical/Electrical Engineering accompanied with faculty members - Dr. Nitin Johri and Dr. Sunita Kumari.

Visit started with a formal address by “Mr. Raj Kamal” (Engineer-BHEL) and their team followed with plant visit and query session. Industrial visit was concluded with an excursion to Haridwar - Mansa Devi, Har Ki Pedi and Rishikesh - Laxman Jhula.

BHEL is India’s largest power generation equipment manufacturer. Students visited Block- 1 and 2 of H.E.P. Plant and were informed about the manufacturing process of turbine rotors for Low Pressure and Intermediate Pressure Turbines.

Process of casting of high Pressure Turbines at C.F.P.P. plant of BHEL was seen. Casings and stators were manufactured for Electrical Generators and sent to Block-1 where the generators are finally assembled and tested. Students visited turbine shop/forging shop comprising of CNC section, Lathe Machine, Grinding of alloys steel and sheet metals.

Chilla Hydroelectric Power Plant is a Run-of-River scheme on river Ganga located upstream. Visit started with a formal address by Mr. Vikas (Plant Engineer). The students grasped the hydroelectric power generation using Kaplan turbines, synchronization and high voltage transmission of supply. Plant had a Capacity of 144 MW by means of 4 Kaplan turbines with a water head of 32.5 m. Design Discharge is 560 m<sup>3</sup>/s and Gen and transmission voltage are 11 KV/132 KV. The turbine type was Kaplan with an average speed of 187.5 RPM. The power units generated is 7200 Lac Unit per year.

Outcome of the visit involved technical knowhow of Hydro Power Generation Equipment—for various applications, practical knowledge and technical skills required.



**13.** A webinar was organized on **"Understand and Improve Design Faster with Ansys Structural"** for 2nd and 3rd year mechanical engineering on **24/11/18** at 10-11 am in room no. 01 SET.

Evaluating multiple product design ideas with a range of design parameters across a range of conditions can be rather challenging in terms of time, costs and usability. In this one hour webinar, students got a basic idea about how ANSYS helps exploring mechanical design more effective in less time. In particular, the process of design exploration via a persistent parametric user environment, integrated design exploration and optimization tools, was discussed. An example application of "Crane Hook" was shown to demonstrate how results can be investigated in order to understand a given design.

Outcome of the webinar involved understanding of Ansys as a simulation and analysis tool for various applications like structural analysis, practical knowledge and technical skills required.



14. Dr. Sanjeev Jakhar from Mechanical Engineering department visited Gramin Mahila Mahavidyalaya, Sikar and S. K. Govt. Girls College, Sikar on **8<sup>th</sup> January, 2019**. There he has given presentation on **Renewable Energy with latest innovation in Solar Energy**.


## व्याख्यान का आयोजन

सीकर. ग्रामीण महिला स्नातकोत्तर महाविद्यालय शिवसिंहपुरा में मंगलवार को भौतिक शास्त्र व गणित विभाग में व्याख्यान का कार्यक्रम हुआ। महाविद्यालय प्राचार्य डॉ. डीएन शर्मा ने कहा कि इस तरह के



व्याख्यान से विद्यार्थियों को काफी फायदा मिलता है। कार्यक्रम की अध्यक्षता प्रो. जेडी सैनी ने की। कार्यक्रम को डॉ. संजय जाखड़ व सुनील कुमावत सहित कई वक्ताओं ने संबोधित किया।



पत्रिका Wed, 09 January 2019  
epaper.patrika.com/c/356273: 

15. Dr, Sanjeev Jakhar published a patent on **“A LIQUID-COOLED HYBRID SOLAR ENERGY COLLECTOR”**.

16. Prof. N. K. Joshi participated in workshop on **“Nuclear Security Design Vulnerability Assessment and Battle Board Table Top Exercise”** held at Amity University, Noida from **29<sup>th</sup> Jan. – 1<sup>st</sup> Feb., 2019**.

The workshop was fully sponsored by Defence Threat Reduction Agency, USA and had collaboration of Texas A&M University and Oak Ridge National Laboratory, USA.



17. Ms. Shubhi Jain & Ms. Shruti Kajala of B.Tech., Mechanical 2<sup>nd</sup> year have presented a research paper in **4<sup>th</sup> National Conference on “Technology Enabling Modernization of Rural India (TMRI-2019)”** organised by Suresh Gyan Vihar University, Jaipur on **March 30, 2019**.



18. One day national seminar on **“Recent Trends in Energy Systems”** was held on **April 19, 2019**. The seminar was jointly organized by Department of Energy Engineering and School of Engineering and Technology (SET). The event was sponsored by the Institution of Engineering and Technology (IET), UK and CSI Lakshmanagarh Chapter.

The experts present in the session were Prof. S. L. Soni, Director, NIT, Uttarakhand, Prof. K. S. Sangwan, Professor, BITS Pilani, Prof. Manoj Soni, Associate Professor, BITS Pilani and Prof. Rohit Bhakar, Associate Professor, MNIT Jaipur. During the seminar, Prof. S. L. Soni presented an expert talk on energy

conversion and its management. He discussed the ways to utilize energy for I C engine in productive manner.

The second talk of the seminar was given by Prof. Manoj Soni, in which he discussed recent trends, issues and challenges of renewable energy. He explained the recent advancement and challenges in renewable energy by giving an example of normal PV plant and concentrators.

The third expert talk was delivered by Prof. K. S. Sangwan in which he provided information about sustainability development from different resources. He informed that how sustainable development would be carried out in day to day resources. Further he gave an example of energy and time saving using Lathe machine, Drill Machine, Shaper Machine, etc.

The last talk of the seminar was delivered by Prof. Rohit Bhakar in which he presented power system operations with uncertainty management in smart grids. He discussed transmission losses occurring in the power grids and how to save them. During the end of presentation he provided a brief insight on uncertainty management within the smart grid systems.

The seminar was concluded by Dr. Sanjeev Jakhar -Coordinator and Mr. Atul Kumar -Co- Coordinator) by proposing vote of thanks. The seminar was attended by a total of 180 participants including students and faculty.



**19.** A one day Workshop on “**Solid works and 3-D Printing**” was organized on **April 20, 2019** by the Mechanical Engineering Department, School of Engineering and Technology. The workshop was conducted by CETPA Noida and the resource persons were Mr. Rohit Pahwa and Mr. Sandeep Chaudhry. Solid works is a solid modelling Computer-Aided Design (CAD) and Computer-Aided Engineering (CAE) computer program that runs on Microsoft Windows. With Solid works, one can design enclosures for prototypes or circuits as well as mechanical components that can later be used for 3D printing. Through this workshop students were imparted hands on training on 3-D printing and Solid works. The coordinators of the workshops were Mr. Atul Kumar and Dr. Sanjeev Jakhar.

20. Prof. N. K. Joshi and Mr. Adithya Nair from department of science and technology visited **CEERI, Pilani on 7 June, 2019** for academic interactions. The research labs developing MWT for electron cyclotron resonance heating of fusion plasma, DBD based plasma devices for water cleaning and other societal applications, smart sensors for optoelectronic and MOEMS applications were visited. It is planned to develop experimental plasma lab at Mody University of Science and Technology.

21. Prof. N. K. Joshi was invited to give three lectures in DST- SERB School on **“Plasma Processing of Materials”** organized by department of Metallurgical Engineering and Materials Science, I.I.T, Mumbai during **June 03-22, 2019**. During 13-14 June, 2019, Prof. N. K. Joshi lectures delivered three on the following topics namely:

- (i) Spectroscopic diagnostics of thermal plasma,
- (ii) Instrumentation for Optical Emission Spectroscopy and
- (iii) Thermal plasma diagnostics.

The school was attended by forty research scholars and young faculty from different Universities and research organizations.



## 4. FACULTY PUBLICATIONS:

### List of Publications (July 2018- June, 2019)

#### Journal Publications

1. Rohit Misra, Sanjeev Jakhar, K.K. Agrawal, "Field investigations to determine the thermal performance of earth air tunnel heat exchanger with dry and wet soil: Energy and Exergetic Analysis", *Energy and Buildings (Elsevier)*, vol. 171 (C), pp.107-115, ISSN: 0378-7788, July, 2018, (SCI Indexed, IF:-4.495)
2. Uma Kumari, Yashi Aggarwal, "Detecting Brain Tumor by Training the Algorithm and Display Features", *International Journal of Scientific Research in Computer Science Applications and Management Studies*, vol. 7 (5), ISSN: 2319 –1953, September, 2018
3. P. K. Bhatt, S. Y Kumar, -, "Comprehensive Assessment and Mitigation of Harmonic Resonance in Smart Distribution Grid with Solar Photovoltaic", *International Journal of Renewable Energy Research*, vol. Vol-7, No-03 (No-03), pp.1085-1096, ISSN: 1309-0127, September, 2018
4. Satyajit Anand, Sandeep Jaiswal, P.K. Ghosh, "A Novel Efficient Machine Learning Approach for Multiclass Classification of EEG Signal", *Recent Patents on Computer Science*, vol. 11 (3), pp.206-214, ISSN: 18744796, September, 2018
5. Neetu Singh, V K Jain, "A Novel Item Recommender for Mobile Plans", *International Journal of Computer Science and Information Security*, vol. 16 (9), pp.58-62, ISSN: 1947-5500, September, 2018
6. Ajay Kumar, V K Jain, "Radial Basis Localization Techniques for Internet of Things", *International Journal on Future Revolution in Computer Science & Communication Engineering*, vol. 4 (3), pp.80-83, ISSN: 2454-4248, October, 2018
7. Neetu Singh, V K Jain, "Efficiency Booster Techniques for Recommendation System", *International Journal of Computing and Engineering Research*, vol. 2 (4), pp.57-60, ISSN: 2141-6494, October, 2018
8. Neetu Singh, V K Jain, "Journal of Mechanics of Contima and Mathematical Sciences", *An Improvised Recommendation System for Mobile Plans Using Similarity Fusion*, vol. 13 (4), pp.1123-1131, ISSN: , October, 2018
9. Manmohan Sharma, Vinod Kumar Jain, "Load balancing in cloud using prioritization based on Quality of Services (QoS) demand", *IJCSE*, vol. 6 (11), pp.938-943, ISSN: 2347-2693, November, 2018
10. Ajay Kumar, V K Jain, "Radial Basis Localization Technique for Internet of Things", *International Journal on Future Revolution in Computer Science & Communication Engineering*, vol. 4 (3), pp.80-83, ISSN: 2454-4248, November, 2018
11. S Choyal, Ajay Kumar Singh, "Analysis on Object Recognition Algorithms and Models to Assist Visually Impaired People", *Mody University International Journal of Computing and Engineering Research*, vol. 2 (2), pp., ISSN: , December, 2018

12. Ajeet Kumar, Atul Kumar, Gautam Prasad, "Thermal and Pressure Drop Analysis of Solar Air Heater with and without Wavy Fin", *International Journal of Mechanical Engineering and Technology*, vol. 9 (12), pp.525–531, ISSN: 0976-6340, December, 2018
13. Uma Soni, Uma Kumari, "Prevention of Power Theft Using Concept of Multifunction Meter and PLC", *International Journal of Computer Sciences and Engineering*, vol. 6 (), pp.444-448, ISSN: 2347-2693 , December, 2018
14. Satyajit Anand, Sandeep Jaiswal, P.K. Ghosh, "A Machine Learning Prediction Model for Automated Brain Abnormalities Detection", *Recent Patents on Computer Science*, vol. 11 (1), pp.17-24, ISSN: 18744796, December, 2018
15. Nitin Johri, R.K.Mishra, H.C.Thakur, "Synthesis and Characterization of Jute-CFF Reinforced Polymeric Hybrid Composites", *Springer's-Mechanics of Composite Materials*, vol. 54 (6), pp.821-832, ISSN: 1915665, January, 2019
16. Shivangi Singla, Uma Kumari, "Enhancement in Accuracy Using GLCM Feature Extraction for Breast Cancer Detection", *Journal of Analysis and Computation*, vol. 13 (2), pp.1-8, ISSN: 0973-2861, February, 2019
17. Purnima Sharma, A. Kotecha, R. Choudhary, P. P. Bhattacharya, "A Novel Pentagonal Shaped Planar Inverted-F Antenna for Defense Applications", *Recent Patents on Computer Science*, Bentham Science, vol. 12 (2), pp., ISSN: , February, 2019
18. Uma Nirmal, V K Jain, "A low-power improved-extended tru single phase clock based multimodulus 32/33/47/48 prescaler for high-speed multiband dividers", *Mody University International Journal of Computing and Engineering Research*, vol. 2 (2), pp.81-85, ISSN: 2456-8333, February, 2019
19. S Choyal, Ajay Kumar Singh, "Speech based Object Identification using Region Proposal Faster RCNN Algorithm", *International Journal of Recent Technology and Engineering (IJRTE)*, vol. 7 (6S), pp.943-946, ISSN: 2277-3878, March, 2019
20. S. B. Punjabi, D. N. Barve, N. K. Joshi, "Computational Fluid Dynamics (CFD) Simulations and Experimental Measurements in an Inductively- Coupled Plasma Generator Operating at Atmospheric Pressure: Performance Analysis and Parametric Study", *Processes*, vol. 7 (), pp.133-157, ISSN: 0227-9717, March, 2019
21. Satyajit Anand, Sandeep Jaiswal, P.K. Ghosh, "Epileptic Seizure Detection in EEG Signal Using Discrete Stationary Wavelet-Based Stockwell Transform", *Majlesi Journal of Electrical Engineering*, vol. 13 (1), pp.55-63, ISSN: 2345-3796, March, 2019
22. Sourabh Singh Verma, R.B.Patel, Anil Kumar, "QoS management with multipath, preemption and priority queue in MANET", *International Journal for Research in Engineering Application & Management*, vol. 4 (12), pp.2454-9150, ISSN: 2454-9150, March, 2019
23. Swati Mathur, Prateek Bhanti, " Exploring and Designing a Proper Sequence Designing Example", *International Research journal of Management Science and Technology*, vol. 10 (3), pp.22-27, ISSN: 2250 – 1959, March, 2019
24. Shivangi Singla, Pinaki Ghosh, Uma Kumari, "Breast Cancer Detection using Genetic Algorithm with

- Correlation based Feature Selection: Experiment on Different Datasets", International Journal of Computer Sciences and Engineering, vol. 7 (4), pp.406-410, ISSN: 2347-2693, April, 2019
25. Indu Bhuria, Rajeev Pourush , D.R Godara, "Attenuation due to foliage depth at 35 Ghz prevailing in desert region of India", International Journal of Engineering & Technology, vol. 8 (4C), pp.12-15, ISSN: 2249-8958, April, 2019
  26. Manmohan Sharma, V K Jain, "Load Balancing in Cloud using Hybrid Approach", International Journal of Innovative Technology and Exploring Engineering, vol. 8 (6C), pp.9-13, ISSN: 2278-3075, April, 2019
  27. Indu Bhuria, Rajeev Pourush , D.R Godara, "Characterization of coherent scattering due to foliage depth at 35 Giga Hertz prevailing in desert of India", International Journal of Recent Technology and Engineering, vol. 7 (6C), pp.42-44, ISSN: 2277-3878, April, 2019
  28. Manmohan Sharma, Vk Jain, "Cloud Access with Load Balancing and Certificate less Signature Authentication", IJEAT, vol. 8 (4), pp.649-654, ISSN: 2249-8958, April, 2019
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## 5. PROFESSIONAL SOCIETY ACTIVITIES

### 5.1 CSI Lakshmanagarh Chapter Inauguration

On Engineers' Day (**September 15, 2018**), CSI Lakshmanagarh Chapter was inaugurated at School of Engineering and Technology, Mody University of Science and Technology, Lakshmanagarh. It was a day filled with various interesting events like Shri Vishwakarma Pooja, Poster Presentation and workshop on Machine Learning and Deep Learning. On this occasion, the office bearer Prof. V.K. Jain, Dean-SET & Chairman of CSI Lakshmanagarh Chapter, Dr. Amit Sanghi, Professor, MEC-Bikaner & Vice-Chairman, Dr. A. Senthil, Assoc. Prof. & Treasurer, Dr. Anand Sharma, Asst. Prof. & Honorary Secretary, other distinguished guests Prof. M.N. Hoda (BVICAM, New Delhi), Prof. Prasenjit Sen (JNU, New Delhi), Dr. Jamil Akhtar (CEERI, Pilani) were present. The event was organized at SSTS Auditorium and is witnessed by around 350 people including CSI members, student members, faculty and students.



**Computer Society of India** is the first and largest body of computer professionals in India. It was started on 6 March 1965 by a few computer professionals and has now grown to be the national body representing computer professionals. It has 72 chapters across India, 511 student branches, and 100,000 members.

➤ **Launch Of CSI- Lakshmangarh Chapter Website**



SET is pleased to announce the launch of CSI- Lakshmangarh chapter website. On Engineers' Day i.e., September 15, 2018, CSI Lakshmangarh Chapter was inaugurated at School of Engineering and Technology, Mody University of Science and Technology, Lakshmangarh. For the benefit and knowledge enhancement of members the chapter is organizing technical meetings, poster presentation/exhibitions, seminars, workshops and conferences. The new site launch is available at the URL: <http://www.csi-lc.org.in>

➤ **One Day Faculty Development Program on “Structuring a Good Research Proposal” June 14, 2019**

A research proposal is a relatively concise and coherent summary that contains an outline plan of your proposed research. It sets out the focal issues or questions that you expect to address. It outlines the general area of concentration within which your research falls, referring to the present condition of knowledge and any ongoing discussions on the theme.

A well-constructed research proposal offers a blueprint for the research that shows what the parts resemble and how they will fit together. It portrays what will be done, clarifies how it will be done, and legitimizes why the research ought to be attempted. A research proposal is a significant piece of the research process because the success of any project relies upon forward planning, association and organization.

A good proposal depends on cautious idea about how the project will be led and includes the sort of early planning that is required if a project is to run easily. Before setting out on a research project, the researcher needs to set up the foundation and give reasonable issues required at the execution phase of the research.

Keeping the same thought in mind CSI Lakshmangarh Chapter has organized one day Faculty Development Program on “Structuring a Good Research Proposal” at ABB-32, SET, Mody University of Science and Technology, Lakshmangarh on June 14, 2019. The FDP was conducted by Prof. R.K. Gaur (Head, Department of Bio-Sciences, SoS, MUST, Lakshmangarh).

Dr. Anand Sharma, Secretary, CSI Lakshmangarh Chapter presided over the inaugural function and gave presidential remarks and briefed the significance of Structuring a Good Research Proposal. More than 20 participants from different departments of School of Engineering and Technology participated in the FDP.

First session of FDP was on ‘Research Proposal’. The speaker shared his knowledge regarding the research proposals that included “what is research proposal?”, “why is it necessary?”, and “what are the ingredients?”

The afternoon session started with Brief overview of Good Research Proposal and it was focused on structuring the overall research proposal. The speaker emphasized on the following points which is to be considered for a good research proposal.

- Title
- Outline
- Literature Review
- Methodology
- Methods of data collection
- Ethical Issues
- Timeline
- Resources
- Outcomes
- Reference list

This one day FDP helped the participants in understanding the importance of research proposal and structuring the good research proposal. The FDP was concluded with the vote of thanks by Dr. Anand Sharma in the valedictory session.



## 5.2. ABET ACCREDITATION



Accredited by



The Bachelor of Technology degree program in Computer Science and Engineering is accredited by the Computing & Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).

The Bachelor of Technology degree program in Electronics and Communication Engineering is accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).

ABET is the global accreditor of college and university programs in applied science, computing, engineering, and engineering technology.

ABET accreditation assures that programs meet standards to produce graduates ready to enter critical technical fields that are leading the way in innovation and emerging technologies, and anticipating the welfare and safety needs of the public.



### Benefits of ABET Accreditation



#### Students

Your degree is a significant achievement and perhaps the largest investment you will make toward your future. The quality of education you receive makes a big difference in your career success. ABET accreditation:

- Verifies that your educational experience meets the global standard for technical education in your profession.
- Enhances your employment opportunities—multinational corporations require graduation from an accredited program.
- Supports your entry to a technical profession through licensure, registration and certification—all of which often require graduation from an ABET-accredited program as a minimum qualification.

- Establishes your eligibility for many federal student loans, grants, and/or scholarships.
- Paves the way for you to work globally, because ABET accreditation is recognized worldwide through international agreements, and many other countries' national accrediting systems are based on the ABET model.

### **Institutions**

ABET accreditation tells your prospective students, peers and the professions you serve that your program:

- Has received international recognition of its quality.
- Promotes “best practices” in education.
- Directly involves faculty and staff in self-assessment and continuous quality improvement processes.
- Is based on “learning outcomes,” rather than “teaching inputs.”
- Can more easily determine the acceptability of transfer credits?

### **ABET accreditation:**

- Ensures that graduates have met the educational requirements necessary to enter the profession
- Provides opportunities for the industry to guide the educational process to reflect current and future needs
- Enhances the mobility of professionals

## **5.3 SWE (Society of Women Engineers)**

For more than six decades, SWE has given women engineers a unique place and voice within the engineering industry. Our organization is centered on a passion for our members' success and continues to evolve with the challenges and opportunities reflected in today's exciting engineering and technology specialties.

Explore our About SWE mobile course within the Advance Learning Center. The course will provide a more in-depth describe of SWE's mission, vision, and strategic goals and provide an overview of the key programs and member benefits provided by SWE.

**Mission:** Empower women to achieve full potential in careers as engineers and leaders, expand the image of the engineering and technology professions as a positive force in improving the quality of life, and demonstrate the value of diversity and inclusion.

**Vision:** A world with gender parity and equality in engineering and technology.

**Core Values:**



**Integrity:** We aspire to the highest level of ethical behavior as evidenced by honesty and dignity in our personal and professional relationships and responsibilities.

**Inclusive Environment:** We embrace diversity in its broadest interpretation and commit to creating an inclusive environment for all our members and stakeholders. We value the contributions of a diverse membership, which enables SWE to achieve its full potential.

**Mutual Support:** We provide an organization that fosters mentoring and the development of professional and personal networks.

**Professional Excellence:** We conduct our activities in a professional manner, demonstrating and demanding the highest standards of business practices.

**Trust:** We share a common definition of success with open, transparent access to information, building mutual respect and confidence in the competence of those with whom we lead, serve and partner with.

**Members:** Approximately 35,000 individual members who are collegiate and professionals.

**Levels:** Ten geographic regions are comprised of 300 collegiate member sections and 100 professional member sections.

**Milestones in SWE's History**

1950	SWE was formed; Dr. Beatrice Hicks was elected as the Society's first president
1951	SWE holds its first annual National Convention in New York City
1951	<i>Journal of the Society of Women Engineers</i> is published
1952	SWE becomes incorporated as a non-profit educational service organization
1953	SWE becomes truly "national," as the Los Angeles section is chartered
1956	A Board of Trustees is established
1983	The executive director position is created
1983	The Board of Directors is re-established
1994	SWE enters the public policy arena

2000	SWE celebrates 50 years
2003	The Corporate Partnership Council is formed
2005	SWE joins coalition formed by MentorNET to raise awareness of the issues of women in STEM
2006	SWE makes strides in policy by co-issuing the position paper, <i>SWE General Position Statement on Science, Technology, Engineering and Mathematics (STEM) Education and the Need for a U.S. Technologically-Literate Work Force</i>
2006	SWE sponsors EWeek
2006	New outreach program, Aspire, is launched
2008	WE08 Annual Conference breaks attendance records
2010	SWE celebrates 60 years of success with SWE60
2015	SWE hosts largest Annual Conference to date with 8,000+ attendees in Nashville

### SWE Strategic Goals

#### Professional Excellence:

**Goal 1:** SWE will be the premier resource for females in engineering and technology seeking growth and advancement at all stages of their careers.

- Strategic Objective 1.1: Develop SWE's education-, experience-, and exposure-based content portfolio to support females throughout their careers and leadership journeys.
- Strategic Objective 1.2: Communicate SWE's current content to appeal to relevant market segments.
- Strategic Objective 1.3: Develop and deliver relevant, valuable resources to new markets, inclusive of expanding audience segments and shifting educational pathways.

#### Globalization:

**Goal 2:** SWE will be recognized as a global, inclusive organization, empowering females in engineering and technology regardless of geography or career stage.

- Strategic Objective 2.1: Partner with global employers to promote the SWE brand in critical and strategic markets.
- Strategic Objective 2.2: Deliver a valuable SWE experience aligned with global market needs.
- Strategic Objective 2.3: Activate SWE's current community to further build the Society's global footprint.

#### Advocacy:

**Goal 3:** SWE will be the preeminent advocate for females throughout the engineering and technology pipeline.

- Strategic Objective 3.1: Empower females in engineering and technology to advocate for themselves and for SWE's mission.
- Strategic Objective 3.2: Expand SWE's sphere of influence to create and promote opportunities to engage more females in the engineering and technology pipeline.
- Strategic Objective 3.3: Advocate with employers and policymakers for the recruitment, retention, and advancement of females on their own terms.

### **Diversity & Inclusion:**

**Goal 4:** SWE will champion diversity in the engineering and technology professions and will promote an inclusive environment.

- Strategic Objective 4.1: Increase the diversity of SWE's membership to reflect the representation of female engineers and technologists.
- Strategic Objective 4.2: Foster an inclusive culture to increase the diversity of SWE leaders.
- Strategic Objective 4.3: Research, define, and communicate the key focus areas of diversity and inclusion for SWE's emerging markets.

### **SWE Value Propositions**

**For professionals:** SWE provides to its members a unique combination of personalized, flexible benefits in the areas of mentoring, training, personal and professional growth - all by women in engineering, for women in engineering.

**For collegiates:** SWE provides collegiate members with the opportunity to inspire future generations and have fun. SWE also provides collegiate members valuable access to a unique set of resources that sets the stage for a successful career.

**For employers:** SWE helps the engineering profession achieve a broadly diverse, well-trained workforce to enhance overall workplace performance.

**For the profession:** SWE provides many flexible options to inspire, support, and positively impact women in engineering on their own terms.

### **SWE Diversity Principles**

At SWE, we acknowledge and respect the value of a diverse community. We recognize that the scope of diversity includes race/ethnicity, religion, family status, age, physical abilities, sexual and affectional orientation, actual or perceived gender, gender identity and expression, socio-economic status and occupational focus. Our society will maintain an environment that is supportive of these elements, and we will promote inclusion within our organization and the engineering community.

### **Objectives:**

- Professional excellence - SWE will develop women engineers at all stages of their personal and professional lives.
- Globalization - SWE will be recognized as a global, inclusive organization, promoting diversity and inclusion and serving women engineers wherever they are.

- Advocacy - SWE will advocate for the inclusion and success of women, present and prospective, in engineering and technology.

**We Commit to:**

- Developing women in engineering across socio-economic strata and occupational focus.
- Encouraging the interest and active participation of women and girls of under-represented ethnic groups, including African-Americans, Asian-Americans, Hispanics, Pacific Islanders, and Native Americans.
- Providing support to women which acknowledges and respects differences in family status, sexual orientation, age, and physical abilities.

We will ensure that all bylaws, policies, and charters support SWE's commitment to diversity. We will align with and participate in those activities and organizations that encourage all dimensions of diversity.

**ACTIVITIES:**

➤ **Inauguration of SWE at Mody University on February 22, 2019**

Ms. Sunayna, the Admin and Communications Manager for Society of Women Engineers, India Team, handed over the Certificate of Accreditation to Mody University. With this the university is an official International Affiliate group of the society. The mission of the affiliate group is to simulate the women to achieve full potential in career as engineers.



➤ **Round Table Discussion on GENDER PAY GAP (28th February, 2019)**

The Society of Women Engineers, Mody University recently conducted a round table discussion on the topic 'Gender Pay Gap'. The event kick-started with a screening of an insightful documentary titled 'Why Women are Paid Less?' which explained the different reasons behind a gender pay gap across the globe. The discussion which was moderated by Ms Aditi Singh, commenced after the students gained a perspective about the situation of the pay gap in various countries.

Members expressed their views on the probable causes behind the huge gender pay gap that exists or has existed at some point of time in every country. From big corporates to a small organisation, from the film industry to the unorganized sector, the gender gap is a gruesome reality. Everyone agreed on the point that the fact that women are seen as caregivers and not breadwinners is one of the major reasons behind the huge pay gap between males and females.

The final year engineering students also stated that there were many recruiters that went to a girls' college with a less annual package than they had in mind when they went to a boys college. Apart from childcare, unequal participation of women in the workforce and lack of properly formulated laws also contribute to the pay gap.

The discussion then shifted its focus to the basic discrimination that happens in society every single day. From office desks to dinner tables, women are forced to prove themselves every time which also largely explains why they are paid less than their male counterpart for the same work. The group also mentioned examples of countries like Rwanda and Iceland where they have almost curbed the gender pay gap. The women engineers also talked about the times when women are in a position of privilege just because they are a woman, which mostly happens in corporate culture. The discussion then came to an end with everybody agreeing on the fact that women themselves have to stand up and fight for themselves in order to bring about a change in society and destroy the gender pay gap.



### ➤ **LADY OF THE HOUR (2<sup>nd</sup> April, 2019)**

On 2nd April, Tuesday, an event was conducted by the Society of Women Engineers, Mody University Chapter titled 'Lady of the hour'. It was mainly about representing women from different eras, countries and backgrounds that have contributed considerably to our society and narrate their side of the story of their struggle. Ms Samridhi Mehta and Ms Shivani Jinger were the moderators for the event.

The evening started off with a little insight on Benazir Bhutto's life and what it would have been like to be in her shoes. From Sports personalities, like Serena Williams who claimed her title for being the best female tennis player, to French designer Coco Chanel who ended Women's clothing struggle with corsets

to Oprah Winfrey's tragic childhood story and her race to the top, to Annie Besant who spoke about how addressing a vacant church hall became a turning point in her life, to the young girl who fought for educational rights, Malala Yusufzai, the event saw it all.

To top off the amazing research work done by the members, they had also dressed up as the person they were representing which kept the audience more engrossed. Apart from the solo speeches, we also had two skits. One was about 'The Gulaabi Gang' which gave information about its formation by Sampat Pal Devi and how it has helped women over the years. The second one focused on portraying little excerpts from the lives of Great Indian Women like Rukma Bai, who was one of the first practising women doctors in colonial India.

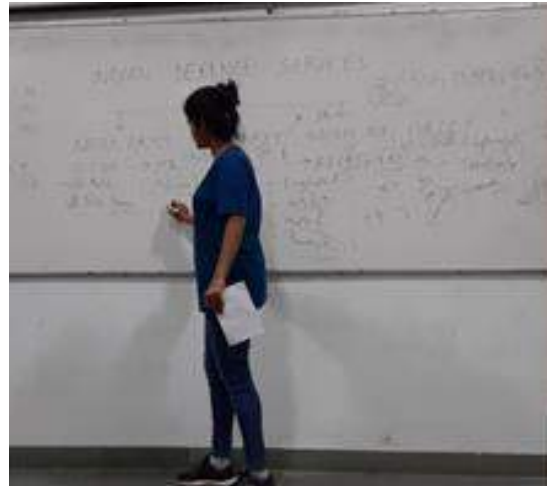
The event concluded with a small interactive session and a few questions from the audience. The moderators spoke about a few prominent women whose names have gone down in history books and who managed to make a difference despite all the shortcomings.



### ➤ CAREER GUIDANCE TALK (15<sup>th</sup> April, 2019)

Faced with hints of uncertainty at the time of their own placement drives, the final year students of Mody University of Science and Technology decided to give a sneak peek to their juniors and the upcoming batches about the abundant opportunities available after graduation and how to avail the same. The career guidance session comprised of 4 different talks on various career paths like preparation of IELTS exam by Ms. Navya Mathur, B.Tech IV Year, preparation of exams to enter the defense services of our country, especially for women engineers by Ms. Himadri Pareek B.Tech IV Year, profile of a Software Development Engineer by Ms. Aditi Singh, B.Tech IV Year and profile of a Graphic Designer by Ms. Bhagyashree Rokadiya, B.Tech IV Year.

The session was undeniably informative and helped the 2<sup>nd</sup> and 3<sup>rd</sup> year students to work for their desired career paths in a more channelized manner. The question and answer round served the icing on the cake and left no room for confusions. After all, an experience shared is an experience worth living.



## 5.4 IET (UK) ACCREDITATION



School of engineering and technology, Mody University has applied to IET (UK) for Accreditation of its five undergraduate programmes in:

- B.Tech in Computer Science Engineering
- B.Tech in Electronics and Communication Engineering
- B.Tech in Bio-medical Engineering
- B.Tech in Electrical Engineering
- B.Tech in Mechanical Engineering

The advisory visit from IET (UK) will be held in the month of September, 2019.

### IET SPONSORED ACTIVITIES:

➤ The workshop on **“Improve Research Discoveries and Identifying Paper Publication Opportunities”** by Mr. Priyank Taparia from IET was conducted at 2 PM on **15th November, 2018**. The Workshop was attended by Faculty members, PhD research scholars, M.Tech, MCA and 4th year students. The topics related to patent search, index based searching, synthesis of information, construction of paper, literature review, reading framework etc. were discussed during the workshop.

### ➤ Present Around the World Competition PATW-2019

PATW is the presentation competition held by SET on April 06, 2019 in association with IET for students, recent graduates, apprentices and young professionals aged 18 to 30. The registered candidates have given a presentation on engineering and technology related topics. The aim of this event is to judge the presentation skills and the relevance of the topic with respect to the intended audience of students and young professionals. Around 22 students registered for the event. An expert panel comprising of Prof. N. K. Joshi, Prof. P. P. Bhattacharya and Dr. Sandeep Jaiswal has assessed the presentations. Ms. Aditi Singh and Ms. Kruti Mehta were declared as the winner and runner-up of PATW-2019, College Round and thereby, they qualified for the next heat. IET-PATW, Northern Regional Round was held in Sri Ramaswamy Memorial University, Haryana on 13th April 2019 and saw enthusiastic participation from the northern region of the country. Ms. Aditi Singh gave a power packed presentation on a web service that she has built called data Trekking, whereas Ms. Kruti Mehta left a lasting impression on the audience by her presentation on Targeted Alpha Therapy.



- One Day workshop on **“PHP Application Development”** on **06 /04/2019** (Saturday) which was sponsored by IET (Institution of Engineering and Technology). The workshop was started at 10.00 AM and end at 7.30 PM.
- One day national seminar on **“Recent Trends in Energy Systems”** was held on **April 19, 2019**. The seminar was jointly organized by Department of Energy Engineering and School of Engineering and Technology (SET). The event was sponsored by the Institution of Engineering and Technology (IET).
- IBM Workshop on **“Design Thinking”** for IET Student Members On **20th April 2019**, a workshop on “Design Thinking” was organized by School of Engineering & Technology (SET), Mody University, Lakshmangarh in association with IBM. Mr. Manish Vashist, IBM Design Director conducted the full day workshop for IET student members of SET. The event was coordinated by Dr. Anil Saroliya and 32 students participated in this synergistic event. The session was quite interactive with hands on experiences and practical applications. Mr. Vashist introduced us to the basics of design thinking and explained how “Design is a process rather than an outcome” through a series of fun activities. Initially, the students were divided into groups of 5-6 members and were made to decide upon different problem-statement. He taught the students to emphasize on the identification of problems rather than focusing on the solutions.

The following are the takeaways from the workshop

- Building the designing skills
- Identifying the problems
- Defining the persona
- Empathy mapping for the persona
- Workout on solutions with respective interaction

**IEEE SPONSORED ACTIVITIES:****➤ Interactive Session on Introduction to Competitive Programming By IEEE- Women in Engineering**

Ms. Aditi Singh and Ms. Mili Sharma conducted an interactive session on **April 9, 2019** to introduce the concept of Competitive Programming to the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year students who are interested in moving forward in the field of coding as a sport.

The session began with the basic explanation on what Competitive Programming is and what are the prerequisites for the same. A few platforms like SPOJ, Codechef, Topcoder were mentioned, along with the skill level needed for each platform, for practicing one's hand in competitive coding. A few tips and tricks were disclosed on how to tackle the daunting task of getting one's code right and that too, in a specific span of time. Other important concepts like TLE and debugging were also discussed in detail.

The session then moved on to discuss about the prestigious Google Summer of Code and how one can apply to it. The basic guidelines for the same were also discussed and a few tips on interacting with the GSoC mentors were given.

This discussion was followed by discussing the different courses available online to enhance one's skills in algorithms and data structures needed for competitive programming.

The session commenced with the viewing of a couple of YouTube videos presented by skilled professionals who have experience in competitive coding and a healthy discussion on renowned coders the world.



## 6. DOCTORAL PROGRAMME

The following candidates have received their PhD degree during 2018 – 2019:

1. Ms. Monika Singh
2. Ms. Sarvesh Panwar
3. Ms. Suman Nehra
4. Mr. Gaurav Dhiman
5. Mr. G. Divya Deepak
6. Mr. Vikas Raina
7. Ms. Jeetu Sharma
8. Ms. Priyanka Joshi
9. Mr. Thoudam Paraskumar Singh
10. Ms. Ritu Tak
11. Ms. Sunita Kumari
12. Ms. Ranjana Thalore
13. Mr. Deepak Sethi
14. Mr. Pramod Kumar Bhatt
15. Ms. Sumitra Singar/Dhaka
16. Ms. Sheena Kohli
17. Ms. Uma Nirmal
18. Ms. Poornima Sharma
19. Ms. Aarti
20. Ms. Neetu Tanvar

The following candidates have submitted their PhD thesis.

1. Ms. Suneetha Rikhari
2. Ms. Satyajit Anand
3. Ms. Uma Meena

## 7. INTERNATIONAL INTERNSHIPS

### Details of Students who went for International Internship

S. No.	Name	Enroll. No.	CGPA	Class & Branch	Email-ID	Remarks
1.	Ms. Kavita Yadav	160437	8.19	B.Tech.- 3 <sup>rd</sup> Year- ECE	ky2351999@gmail.com	Polytech, France June3-July12, 2019
2.	Ms. Supriya Garg	160371	7.75	B.Tech.- 3 <sup>rd</sup> Year- ECE	gargsupriya01@gmail.com	Polytech, France June3-July12, 2019
3.	Ms. Sheetal Gurjar	160456	7.7	B.Tech.- 3 <sup>rd</sup> Year- ME-	sheetalgurjar02@gmail.com	Polytech , France June3-July12, 2019
4.	Ms. Manvi Mishra	160341	7.2	B.Tech.- 3 <sup>rd</sup> Year- ME	mishra.manvi98@gmail.com	Polytech , France June3-July12, 2019
5.	Ms. Aanchal Agrawal	160382	8.76	B.Tech.- 3 <sup>rd</sup> Year- CSE-BDA	<a href="mailto:aanchalagrawalmds@gmail.com">aanchalagrawalmds@gmail.com</a>	Canada June 17, 2019 for one month
6.	Ms. Apoorva Gupta	160392	8.40	B.Tech.- 3 <sup>rd</sup> Year- CSE-BDA	apoorva.kota@gmail.com	Canada June 17, 2019 for one month
7.	Mr. Anushka Agarwal	160390	7.2	B.Tech.- 3 <sup>rd</sup> Year- CSE-BDA	dpsanu@gmail.com	Canada June 17, 2019 for one month

## 8. CAREER DEVELOPMENT CENTRE (CDC)

**Objective of CDC:** Transforming the Training and Placement Cell to the Career Development Centre for achieving a wider perspective and new horizon in the area of Career Counselling, avenues related to Higher Studies, Entrepreneurship and Placement.

To prepare students as per the Industry expectations and to make them Industry ready, several initiatives have been taken by CDC like:

- **Training**
  - (a) In house
  - (b) Through 3<sup>rd</sup> party agencies
- **Assessment**
  - (a) In house Mock Sessions
  - (b) Through 3<sup>rd</sup> party agencies of repute
- **Faculty Enablement Programme (FEP) in the area of:**
  - (a) Soft Skills
  - (b) Analytical
  - (c) Android Technology
  - (d) Foundation Programme 4.0 on Java, etc.

In association with various industry leaders, to make them acquainted with the recent trends of the industry.

SET, MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY									
OVERALL PLACEMENT REPORT									
BATCH 2018 - 19									
Undergraduate									
Branch	Total Students (I)	Not Interested (II)	Below 60% (III)	Multiple Backlogs (IV)	Combined (With Overlapping) (III + IV)	Total Available Students	Students Placed	Placed %age	Remaining
B. Tech. CSE	187	17	9	8	9	161	133	82.61	28
B. Tech. ECE	25	4	2	2	2	19	13	68.42	6
B. Tech. EE	11	3	0	5	5	3	2	66.67	1
B. Tech. ME	2	0	1	1	1	1	1	100.00	0
B.Tech. (Bio Med)	6	0	1	2	2	4	4	100.00	0
<b>TOTAL (UG)</b>	<b>231</b>	<b>24</b>	<b>13</b>	<b>18</b>	<b>19</b>	<b>188</b>	<b>153</b>	<b>81.38</b>	<b>35</b>

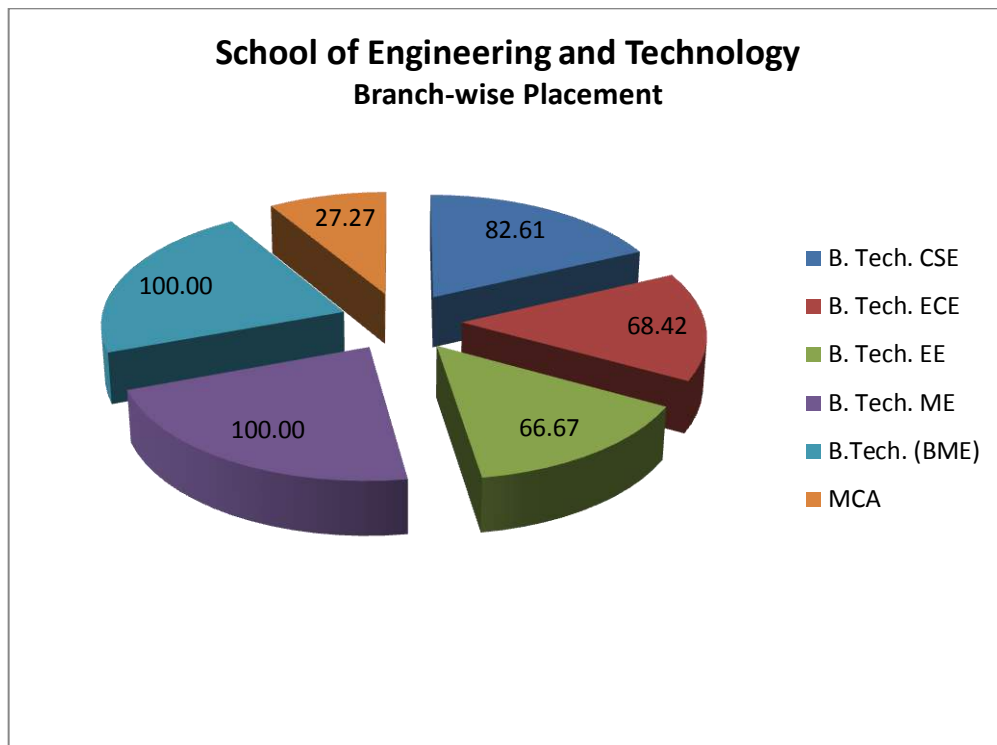
**Postgraduate**

Branch	Total Students (I)	Not Interested (II)	Below 60% / (III)	Multiple Backlogs (IV)	Combined (With Overlapping) (III + IV)	Total Available Students	Students Placed	Placed %age	Remaining
MCA	14	0	0	3	3	11	3	27.27	8
M.Tech.	10	7	0	1	1	2	0	0.00	2
<b>TOTAL (PG)</b>	<b>24</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>13</b>	<b>3</b>	<b>27.27</b>	<b>10</b>

### Company-wise Placement Record

School of Engineering and Technology		
Sr.	Company	Selection
1.	Accenture	100
2.	Expedia	0
3.	Texas Instruments	1
4.	John Deere	4
5.	Honeywell #	13
6.	Aricent	29
7.	Infosys	39
8.	Promact Infotech	3
9.	Saint Gobain	0
10.	SKF Bearings	0
11.	IBM	0
12.	ZS Associate	0
13.	HSBC	5
14.	Hexaware Technologies	1
15.	Ericsson	40
16.	Adobe	0
17.	LinkedIn	0
18.	SAP Labs	5
19.	Mahindra & Mahindra	7
20.	Namekart	8
21.	Samsung	0
22.	Gboxz	0
23.	Extramarks	8
24.	Johari Digital Healthcare	1
25.	Amazon	0
26.	Transfunnel	3
27.	iNurture #	0
<b>Total</b>		<b>267</b>

## Placement Pie Chart



## 9. LIBRARY ACTIVITIES

- ▶ Fully computerized using KOHA LMS Software Package.
- ▶ Barcode-based Circulation System with 3M security.
- ▶ 280 users seating capacity.
- ▶ Complete Collection Bar-coded.
- ▶ 47 PCs: All Internets enabled.
- ▶ 2121 E-Journals and 160 E- Books
- ▶ Turnitin antiplagiarism software :-  
(Identify unoriginal content with the world's most effective plagiarism detection solution. Manage potential academic misconduct by highlighting similarities to the world's largest collection of internet, academic, and student paper content)

### Library Area of Library

Total Area	:	2595 SQM
➤ Reading Area	:	1450 SQM
➤ Stack Room	:	1040 SQM
➤ Digital Area	:	105 SQM

### Library Collection

#### Books

➤ Number of Titles	:	15069
➤ Number of Volumes	:	44663

**Project Reports** : **1910**

**Bound Volumes** : **884**

**Compact Disk** : **1880**

#### E-Books:

➤ McGraw Hill	:	80
➤ Elsevier	:	80
➤ DELNET	:	10931

## Journals and periodical collection

➤	National Journals	:	54
➤	International Journals	:	13
➤	Magazines	:	67
	<b>Total</b>	<b>:</b>	<b>134</b>

### Online Journals:-

S.No	Name of Journal	Content/Subject Area	Link
1	IEEE	Computer, Science, Electronics & Communication Engineering, Telecommunication Engineering	<a href="http://www.ieeeexplore.ieee.org">www.ieeeexplore.ieee.org</a>
2	EBSCO	<u>EBSCO Discovery Service - Improving Your Search Results Basic Searching on EBSCO host EBSCO eBooks - Downloading</u>	<a href="https://connect.ebsco.com">https://connect.ebsco.com</a>
3	J-Gate	<u>Journals Indexed, Articles Indexed Till Date and Articles Added Daily</u>	<a href="https://jgateplus.com/home/">https://jgateplus.com/home/</a>
4	Knimbus	<u>Search full text Journals, Millions of e-books and course documents</u>	<a href="https://new.knimbus.com/#/">https://new.knimbus.com/#/</a>

### Membership:-

1. DELNET Membership
2. ISTE
3. The Institution of Engineers, Kolkata
4. Computer Society of India
5. NDL (National Digital Library)
6. WDL (World Digital Library)

#### ➤ KOHA ILMS Training Programme

**KOHA ILMS** - a three day KOHA software training Program was conducted by the Central Library from **4- 6 June, 2019** under the guidance of Dr. M. Venu Gopala Rao, Director Academics, Mody University of Science and Technology (MUST). Mr. Vijay Parashar, Librarian of MUST has coordinated the training Program. Library staff of Mody School and Central Library has participated in the KOHA ILMS Training Program. Mr. Vijay Pratap Singh from Jivensa Tech. is the resource person for the event. During the training period, Mr. Vijay Pratap Singh has given detailed lectures and hands on training on the KOHA software.



## 10. STUDENT SOCIETIES


### 10.1 ATHLON

#### Vision:

Sports have always been an integral part of Mody University of Science and Technology. It has not only helped us in developing sportsman spirit but also groomed personalities of students in all round development. Winning and losing in a sport is always secondary, what is primary is that it gives us a plethora of opportunities to showcase talents. Athlon provides facilities and coaching to enable students from all backgrounds to reach their full potential in their sport performance. It builds a vibrant and integrated sports community that will give students the opportunity to develop their leadership and management skills.

#### Objectives:

- To provide students the opportunity for instruction and participation in a wide variety of sports of which one may develop sound, lifelong leisure values.
- To develop leadership skills and foster qualities of co-operation, tolerance, consideration, trust and responsibility when faced with group and team problem-solving tasks.
- To provide an avenue for camaraderie and to develop a sense of belonging among individuals in the shared pursuit of sport.
- To provide an outlet for advanced participation and competition in a particular sport.
- To develop an ability to observe, analyse and judge the performance of self and peers in sporting situations.
- To develop an appreciation of the concepts of fair play, honest competition and good sportsmanship.
- To use sport as a means to develop social interaction and so learn about others as well as themselves.
- To provide a release for students in order to refresh for academic work.
- To promote an understanding of physical and mental well-being through an appreciation of stress, rest and relaxation.

OFFICE BEARERS			
NAME	POST	YEAR IN ATHLON	PHOTO
SHAILJA BARSAIYAN	General Secretary	2015 – 2019	

HIMADRI PAREEK	Joint Secretary	2015 – 2019	
KRIKA TRIPATHI	Joint Secretary	2015 – 2019	

**Faculty Mentor:** Mr. Suneet Gupta



### Achievements:

#### 1. Bits Open Sports Meet (BOSM'18), 19th-23rd September, 2018

- Annual Sports Festival of BITS Pilani
- Football Team, 2<sup>nd</sup> Runner-up
- 4\*100 m Relay: 3<sup>rd</sup>, 4 Bronze  
(Chetansi Chaudhary, Rabina Parsai, Himadri Pareek and Poorva Tiwari)



**2. 34th edition of sports festival of IIT BHU Varanasi (Spardha'18), 26th -28th October, 2018**

➤ **23 medals**

• Basketball: Gold Medal plus a gift voucher of Rs.13000 sponsored by HEINI, a company dealing in Sports material.

• Table Tennis: Gold Medal

• Taekwondo: Gold Medal

➤ **Athletics:**

• High Jump: Silver Medal

• Shot put Throw: Bronze Medal

• 400 m Race: Bronze Medal

• Best Player Award in Table Tennis:

• "The best fair play" award



**3. Sports Meet of LNMIT Jaipur (Desportivos 2019), 25th-27th January, 2019**

• Football Team: Gold Medal



#### 4. Sports Tournament of MNIT Jaipur (MST 2019), 21st-23rd February, 2019

➤ **36 medals**

- Basketball: Gold
- Volleyball: Gold
- Lawn Tennis: Silver
- Table Tennis :Bronze
- Badminton: Bronze



#### FUTURE PLANS:





- Sports meet conducted by IIT-BHU and MNIT Jaipur
- Bits Pilani and LNMIT Sports Festival

## 10.2 ROBOTA

The robotic society of Mody University of Science and Technology, ROBOTA was established in year 2009.

ROBOTA believes in imagination, because logic can only provide solution but imagination will take the solution to wider range. The objectives of society are as follows:

- To impart practical knowledge.
- To make technical projects this helps in making our lives easier.
- To focus on eco-friendly projects.
- To improve the skills in robotics.
- To compete with different institutes such as IITs, NITs in making and functioning of robots.
- To improve the interest of students in field of robotics.

<b>OFFICE BEARERS</b>			
<b>NAME</b>	<b>POST</b>	<b>YEAR IN ROBOTA</b>	<b>PHOTO</b>
MUSKAN GUPTA	General Secretary	2015 – 2019	
NIHAR JOSHI	Deputy Secretary	2015 – 2019	
AANCHAL RATHORE	Technical Head	2016 – 2019	
CHARU SHARMA	Technical Head	2015 – 2019	

**Faculty Mentor: Dr. Gaurav Dhiman**



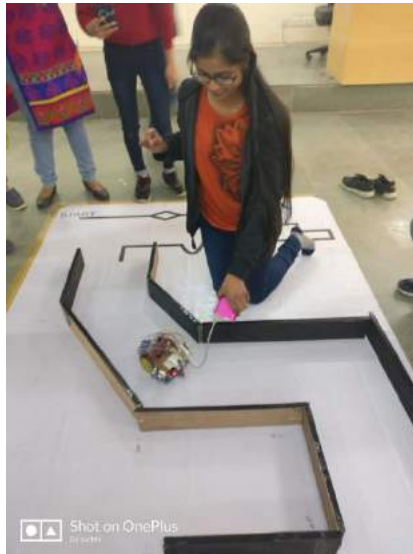
**ACTIVITIES:**

Month	Activities
September	1 <sup>st</sup> week – Recruitment process and event conducted (Bluetooth car racing) 3 <sup>rd</sup> week – Interaction with new members.
October	1 <sup>st</sup> and 2 <sup>nd</sup> week – Workshop for new members by 2 <sup>nd</sup> and 3 <sup>rd</sup> year students on basics of electronics.
November	Projects – Clean Sweep Bot ( made using Arduino Uno and sensors)
January	Participated in PLINTH college fest of LMNIIT <ul style="list-style-type: none"> <li>• Robo-war</li> <li>• Maze solver- final round</li> <li>• Line wall follower- 2<sup>nd</sup> runner up</li> </ul>
February	Participated in technical fest of IIT jodhpur <ul style="list-style-type: none"> <li>• Line follower</li> <li>• RF car race</li> <li>• Workshop (sixth sense technology)</li> </ul>
March	Projects- automatic light dimmer using Triac and quadcopter

➤ **Praise Worthy Performance Of ROBOTA Society Team at PLINTH'19**

ROBOTA, the robotics club of Mody University participated in **PLINTH**, the technical fest of LNMIIT, Jaipur on **19-20 January, 2019**. A total of 16 students of ROBOTA competed in various events at the fest.

- Ms. Anshula Kumari, Ms. Purvi Bharani, Ms. Shalu Upadhyay and Ms. Yashika Khiyani from second year participated in Line Wall Follower competition. For this they had built an **AUTONOMOUS CAR** that can follow both lines and walls. The team successfully cleared both the rounds of this event and stood second. They also received a cash prize of ₹12,000.
  - Ms. Surbhi Sawant, Ms. Supriya Jain of third year and Ms. Sneha Dujaniya, Ms. Riya Jaipuria of second year participated in Maze Solver. In this competition they had to build a car that can solve mazes in real time. Their team cleared the first round and stood fourth in the finals.
  - Ms. Hiral Jain, Ms. Payal Jain, Ms. Swati Gupta and Ms. Ananya Chaudhary from first year also got a chance to showcase their talent by participating in Robo Race.
- Overall, the students got hands-on practice on robotics and gained lots of practical knowledge.



### 10.3 KARUNA Club






KARUNA club is an official social service club of SET. It is working for the welfare of underprivileged children since 2006.

**The vision of KARUNA** club is to bring a change in the lives of the underprivileged children by providing them quality education so that they can live a life of respect.

**The objectives of KARUNA** club are- Educating the underprivileged children, Creating awareness in the society on various issues like food wastage, cleanliness , women and children rights and education and Encouraging the students to participate in community development programs.

#### KARUNA Club Outcomes:

- Educated the underprivileged children.
- Created awareness in the society on various issues like food wastage, cleanliness, women and children rights and education.
- Encouraged the students to participate in community development programs.
- Weekend classes by members of Karuna society & distribution of stationary & snacks

OFFICE BEARERS			
NAME	POST	YEAR IN KARUNA	PHOTO
MEENU SHARMA	President	2016 – 2019	
NAVYA MATHUR	Vice President	2016 – 2019	
MUSKAN SINGLA	Joint Secretary	2016 – 2019	

ADITI SINGH	Joint Secretary	2015 – 2019	
SURBHI AGARWAL	Joint Treasurer	2015 – 2019	
SAKSHI BHARDWAJ	Joint Treasurer	2016 – 2019	
MANILA JAIN	Marketing Head	2016 – 2019	

**Faculty Mentor: Dr. Purnima Sharma**



**ACTIVITIES:**

➤ **Independence Day Celebration (15<sup>th</sup> August, 2018)**

The members of Karuna club along with Faculty Coordinator Ms. Purnima Sharma celebrated the Independence Day with the students of Bal Seva Sadan, a school at Lakshmanagarh for the underprivileged children. The school children gave inspiring performances in the form of PT exercise, dances, poem recitation and group songs. The members of Karuna Club also presented a patriotic song and recited verses to inspire the students. This was followed by distribution of refreshment and stationary items to the children in the school. The members finally returned after spending quality time with the children.



Bal Seva Sadan students with Karuna Club members

➤ **Karuna society Orientation programme**

On **27<sup>th</sup> September**, Karuna society, the official non-profit organization of School of Engineering and Technology held an orientation program for students of 1st and 2nd year. It was graced by the esteemed presence of Dean, SET and Coordinator of Karuna Society. An overwhelming turn-up of 93 students surely uplifted the spirits of current team members.





### ➤ Kerala Relief Fund Collection By KARUNA Society

Karuna Society members have taken initiative to collect fund, packed food items and cloths for Kerala flood relief. They have collected an amount of 28,215/- from students, faculties and staff of Mody University. The fund was transferred to the CM relief fund account on 24<sup>th</sup> August 2018. For wide publicity of this campagne students worked very hard.



### ➤ Children's Day Celebration at Bal Seva Sadan School (14<sup>th</sup> November 2018)

Karuna Club members attended a fair organized at Bal Seva Sadan School, Lakshmarah on the occasion of Children's Day. The school children arranged various stalls of eatable items. In the fair, Karuna members distributed refreshment and stationary items amongst the children. All the children of Bal Seva Sadan were very excited and happy. It has given an immense pleasure and peace by being the part of this event.



Refreshment distribution among Bal Seva Sadan students

➤ **Cloth distribution to Labours (31<sup>st</sup> November 2018)**

Karuna society members collected unused and old cloths and footwear from students and faculties. These cloths were distributed to needy labours, working in Mody University Campus during evening hours near Gate No 2 on 31<sup>st</sup> November 2018.



➤ **Republic Day Celebration (26<sup>th</sup> January, 2019)**

The members of Karuna club along with Faculty Coordinator Ms. Purnima Sharma celebrated the Republic Day with the students of Bal Seva Sadan, a school at Lakshmanagarh for the underprivileged children. The school children gave inspiring performances in the form of P.T., dances, poem recitation and group songs. The members of Karuna club also presented a patriotic song and recited verses to inspire the students. This was followed by distribution of refreshment and stationary items to the children in the school. The members finally returned after spending quality time with the children.



### ➤ **Kasturba Sewa Sansthan visit (10<sup>th</sup> Feb, 2019) by KARUNA Club**

A total of 28 Karuna club student members along with Ms. Purnima Sharma and Ms. Pragya Shrivastava, visited an orphanage, **Kasturba Sewa Sansthan** in Sikar on 10<sup>th</sup> Feb, 2019 under the guidance & cooperation of Dean SET, Dr. V. K. Jain. The total strength of children in the ashram is 100. The Ashram is also a home for the old people who have been abandoned by their family. The members interacted with the children at the orphanage to know about their lives and also enjoyed by engaging in a few activities to showcase the talent of the kids in the Ashram. Indoor games and footwear were donated to the orphanage.






The members then proceeded to distribute refreshments and stationary items to the children and other inmates. After spending some more time with the children, the members returned back with a promise to revisit.

## 10.4 SPARK

### Vision and Mission:

- The vision of SPARK is a place where all learners thrive, achieve and contribute. SPARK aims to be the multidisciplinary society for individuals committed to advancing excellence in all aspects of electrical engineering and engineering technology education.
- As active and innovative members of society, we broaden the scope of current academics through exemplary practice.
- Aims' to be regarded as a boon to students of learning in electrical engineering that set the future trends of the other societies in India. Develop a vibrant culture of learning and research that will benefit the society at large and strive for continuous improvement and be trend setters.

<b>OFFICE BEARERS</b>			
<b>NAME</b>	<b>POST</b>	<b>YEAR IN SPARK</b>	<b>PHOTO</b>
MS. RACHITA CHAWALA	President	2015 – 2019	
NISHU CHETANI	Secretary 1	2016 – 2019	
SHIVANGI RATHORE	Secretary 2	2017 – 2019	

**Faculty Mentor: Dr. Thoudam Paraskumar Singh**



**ACTIVITIES:**

➤ **COLOSSEUM**

Spark-The Electrical Society of Mody University, hosted 1 event in the session 2018-19, the details of which are mentioned below. The first event hosted was **COLOSSEUM**. The evening of **25th September, 2018** was filled with fun and enthusiasm when all the members of Spark- The Electrical society of Mody Institute of Technology and Science accumulated together to put up an event – ‘COLOSSEUM’ in room no 231 , SET building, 5:00 pm onwards. The activities included whisper names, glass pyramid and fun dance. The total number of participating students were 50 including SET, SOS, SLS, SFDM, SMS. The recruits for the new session were also taken on the very next day and a total of 25 students from first year and second year were recruited. The exemplary performers in every event were awarded with gifts and appreciation. The last event for the session was a meeting with the seniors for the final time. The final meet was organized by the members of SPARK SOCIETY on 25th April, 2019 for our beloved seniors in old cafe of Mody University with great enthusiasm. The program began with a documentary movie on our seniors followed by cake cutting ceremony. The current president Ms. Rachita chawla addressed the gathering and told the importance of being a member of any technical society. And then positions for upcoming session were awarded.






- Two students from spark society participated in droid 2.0 and won the first prize worth 5000/-
- The topic was “**smart road to generate electricity**”



**FUTURE PLANS:**

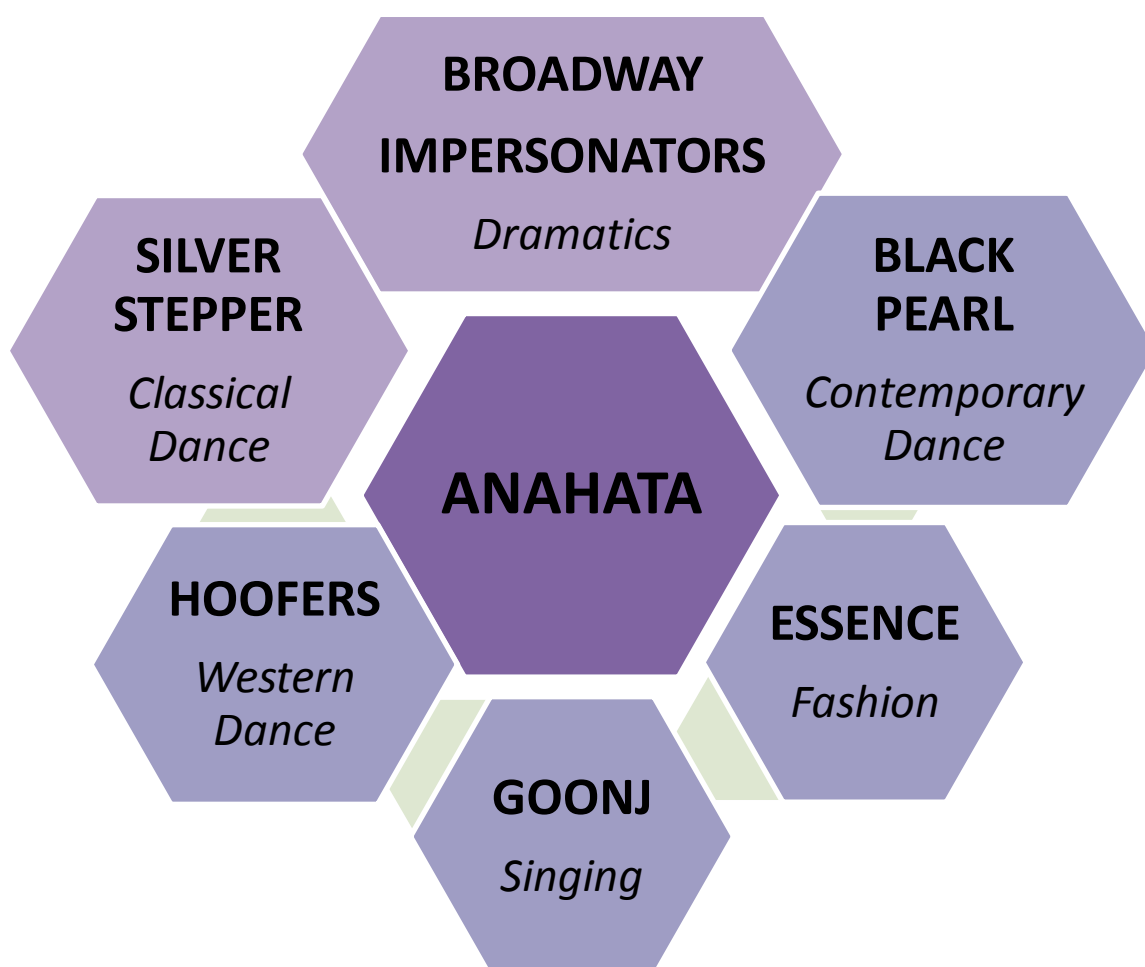
- Seminar on recent trends in renewable technology.
- Workshops for EE, ME, ECE, NST students.
- Workshop for 1st year students to enhance their knowledge about basic electrical simulation.
- Collaboration with IIT's & NIT's club.
- Industrial visit.
- Inter society competition.

**10.5 ANAHATA**

<b>OFFICE BEARERS</b>			
<b>NAME</b>	<b>POST</b>	<b>YEAR IN ANAHATA</b>	<b>PHOTO</b>
NIKITA CHATURVEDI	General Secretary	2015 – 2019	
DEEPA MISHRA	Joint Secretary	2015 – 2019	
RASHI MITTAL	Joint Secretary	2015 – 2019	

**Faculty Mentor: Ms. Suneetha Rikhari**





S.No	Coordinator	Name
1.	BIS-Dramatic	Himadri Pareek, Himangi Gopal, Mandvi Singh, Aditi Aggarwal, Anubha Sharma
2.	Silver Steppers	Anukriti Sharma, Anushka Kapoor, Srishti Verma, Harshita Bhambhani
3.	Black Pearls	Kavya Dixit, Jigyasa Chotwani
4.	Goonj	Arshiya Sinha, Disha Darshan, Jagriti Sharma
5.	Hoofers	Ayushi Tyagi, Saloni Saxena, Harshita Jain, Nilisha Kothar
6.	Essence	Prachi Poddar, Rivanshi Agarwal, Saloni Saxena

### ACTIVITIES:

- **Orientation – 11<sup>th</sup> August , 2018**
- **Independence Day Celebration – 15<sup>th</sup> August, 2018**
- **Participated in Dance+ 4 Zonal audition (Silver Steppers\_- 7th August,2018)**
- **Benefit concert – Kerala flood relief at Mody University (Goonj – 20<sup>th</sup> August,2018)**

A charity concert is held on 20<sup>th</sup> August 2018 by the members of **GOONJ**- the music club of ANAHATA, in support of the Kerala flood relief efforts. A charity of 4,200 rupees was raised along with some domestic goods for the Kerala Flood Victims through the benefit concert held. It was indeed a mesmerizing performance by **GOONJ**. The team efforts towards social responsibility and the idea of helping the society are really appreciable.



### ➤ Navaratri Celebrations at Mody University on October 18, 2018

Mody University is a place full of cultures and diversity. It's a place where people of different caste and culture unite together, live together, educate together and celebrate festivals with joy and happiness. Several different kinds of festivals are celebrated at Mody University, and one of them is Navratri. Navratri is celebrated all the nine days by conducting a regular Aarti of Goddess Durga at the 10S1 Hostel common room, where all students would gather every day for the Durga Aarti. SET had a grand celebration on the last day of Navratri "Maha Navami" at Hostel 12S1, where all the students gathered up wearing flamboyant traditional outfits with various decorations done with lights and rangoli to lit up a traditional environment with all Navratri-Garba songs being played around on which the students enjoyed dancing, and it was later on carried with the Maha Aarti done by Dr. V. K. Jain, Dean SET followed by distribution of Indian sweets as Prasad.



### ➤ Performed at Diwali celebration – 2<sup>nd</sup> November, 2018

### ➤ Lohri celebration at Mody University on January 13, 2019.

The festival of Lohri marks the starting of the harvest season and calls for celebration in many parts of northern India. The festival is celebrated by lighting a holy bonfire that also signifies passing of

the winter solstice. Lohri officially marks the end of the long nights of winter and welcomes the longer days of summer, as the Sun begins its journey to the Northern. Lohri was celebrated at Mody University of Science and Technology near Hostel 11S2 (Laksmi Bhawan) on 13th January, 2019 which was organized by School of Engineering and Technology. Students across the University wore bright coloured clothes and performed Bhangra and Gidda. The festival was celebrated by lighting up of the bonfire by the Deans of all schools and the students danced and sang around the bonfires.



- Performed in Genre (Silver Steppers\_– 19<sup>th</sup> January,2018)
- Founder’s Day Celebration – 22<sup>nd</sup> January,2019
- Republic Day Celebration – 26<sup>th</sup> January,2019
- Performed at LNMIIT ,Jaipur (BIS, Essence, Hoofers, Silver Steppers, Goonj – 1<sup>st</sup> - 3<sup>rd</sup> Feb, 2019)

BIS secured 2<sup>nd</sup> position in MIME and also awarded for best actors in stage play.



- Women’s Day Celebration – 8<sup>th</sup> March,2019
- Accenture Day Celebration – 11<sup>th</sup> March,2019
- Pradhan Mantri Unnat Bharat Abhiyan (BIS, Nukkad Natak)

- **Phase 1: Yalsar (17<sup>th</sup> Feb, 2019)**

A Nukkad Natak (Street Play) was performed by the students of Mody University of Science and Technology at Yalsar Village. The title of the play was "JAGRITI" and it was performed by 25 students at Choupal on February 17, 2019. The theme of the play was the dissemination of awareness about women education, health, sanitation, and superstition.

- **Phase 2: Lalasi (5<sup>th</sup> March, 2019)**

A Nukkad Natak (Street Play) was performed by the students of Mody University of Science and Technology at Village Lalasi, Block: Lakshmangarh, District Sikar, and Rajasthan under Unnat Bharat Abhiyan on March 5, 2019. The title of the play was "JAGRITI" and it was performed by 25 students at Choupal. The theme of the play was the dissemination of awareness about women education, health, sanitation, and superstition. With the help of play, information about some important government schemes was also disseminated.



➤ **One more light at Mody University (Goonj – 17<sup>th</sup> April,2019)**

One More Light, an uplifting choral concert on Mental Health Awareness, an initiative to combat Mental illness was held on April 17, 2019 at Sangeet Samrat Tansen Sabhagar. Mental Health comes with a stigma and the idea was to make people more aware and accepting of Mental Health making it as normal as fever or any other disease. This concert was based on the plan of making it easy for the people going through mental issues, uplifting them and making them see the ray of hope there is, instilling a will to get up and live again.




## 10.6 PENUMBRA

**Vision:** The illustrious society makes the members comprehend the complexities and subtle nuances of the fine art of oration through rigorous and repeated training. Public speaking is no child's play but under the tutelage of the core team, Penumbra members who once struggled on the sidelines swiftly gain the spotlight.

**Objectives:** Penumbra is a ubiquitous student group that focuses on:

- Plethora of public speaking events-debating, extempore, elocution, jamming , MUNingetc
- Polishing the communication skills
- Instilling a sense of confidence

OFFICE BEARERS			
Name	Post	Year in PENUMBRA	Photo
MS. ADITI SINGH	President	2015-19	
MS. MUSKAN GUPTA	Vice President	2015-19	
MS. VIDUSHI ANAND	General Secretary	2015-19	 VIDUSHI ANAND
MS. ANUSHKA KAPOOR	Joint Secretary	2015-19	

MS. VAISHNAVI PUJARA	Joint Secretary	2016-19	
MS. RACHITA CHAWLA	Executive member	2015-19	
MS. PRATIMA RATWANI	Executive Member	2016-19	
MS. ARPITA BHADOURIA	Executive Member	2016-19	

**Faculty Mentor: Dr. Uma Kumari**



### **ACTIVITIES:**

#### ➤ **ALFAAZ 2.0**

The 2<sup>nd</sup> edition of Intra University ALFAAZ, an open mike competition was organized by the public speaking society PENUMBRA on **9<sup>th</sup> September, 2018**. The efficient panel of judges included Prof. Prabhash and Mr. Rishi Kumar. One hundred three students actively participated with enthusiasm and zeal to showcase their outstanding talent of presenting the creative writing in front of audience. With the brilliant panel to judge, the students were marked on various aspects like Gesture, content, fluency and capability to indulge the audience. Penumbra was able to pull a good number of audiences who genuinely felt that their voice is worthy enough to be heard by the crowd. The

confidence and the determination of the contestants could be measured by the thunder of claps that echoed in the room. With students narrating tales, singing stories and reading poems, every write up was beautiful and meaningful at the same time. All in all, the event was one of the successful events and the core team Penumbra looks forward for another big edition of same to keep up with the spirit of speaking. To boost the confidence and for the appreciation cash prizes of Rs. 1300/- and certificates were distributed by Dean SET, on Engineers Day i.e 15<sup>th</sup> Sept. 2018. The overall winner Ms. Priyal Maheshwari received an amount of ₹500 and a certificate of recognition; next 3 received cash prize of ₹200 and certificates and the rest 2 were awarded with ₹100 cash prizes with certificates.



➤ **Movie Review - IMDB Top 100 (16<sup>th</sup> September, 2018)**

Film matters for the same reason all art matters – because it embodies and conveys the values and beliefs of the culture within which and for which it is made. Popular art forms, such as film, are of special importance because they speak to the most central of those values and beliefs. A discussion was conducted where each Penumbra member delivered a verbal review of the movie of her choice from the list of IMDB top-100 movies of last decade.



➤ **#METOO CAMPAIGN (20<sup>th</sup> October, 2018)**

Following the global outrage over the Harvey Weinstein incident in the West, where the noted Hollywood producer was accused of sexual harassment by over 70 women, when the #MeToo movement gained momentum in India, engulfing the whole media and entertainment industry, a group discussion was organized to educate members on the importance of having a voice as a woman.



➤ **THE ART OF ORATION (28<sup>th</sup> October, 2018)**

If a woman wishes to become a great orator, she must first become a student of the great orators who have come before her. She must immerse herself in their texts, listening for the turns of phrases and textual symmetries, the pauses and crescendos, the metaphors and melodies that have enabled the greatest speeches to stand the test of time. Penumbra members re-enacted a popular speech and pressed on why it had withstood the test of time.

➤ **SIMULATION OF TEDTALKS (11<sup>th</sup> November, 2018)**

Through TED talks, audiences are exposed to speakers who are doing cutting edge work across numerous causes. The speakers often demonstrate constructive ways that people can help with these causes on a personal level. Members were asked to perform a TED talk that had the most powerful impact on them.

➤ **MODEL UNITED NATION (MUN) (19<sup>th</sup> February, 2019)**

On 19<sup>th</sup> Feb 2019, Tuesday at 4:30 pm Penumbra society team members gathered to acquire knowledge on the MODEL UNITED NATION.

The meeting was presided by one of the executive member (Ms Rachita) who is well off with the insights of the same. A descriptive narration on what parameters the delegates are marked, what are the key strategies to research, what committee one should opt, how the committee procedures and many such inquiries were cleared.

The members were interactive and placed the required questions to clarify everything regarding the structure of the MUN, its working, the rules that one has to follow, the discipline it requires and how a first timer can take back a good experience. In the end many were convinced that being an orator one should participate in MUN.



➤ **GRE SESSION (1<sup>st</sup> March, 2019)**

Penumbra, the public speaking society of School of Engineering and Technology, organized an Open House Session on GRE and all its quirks. The decisions never end and deciding for the next innings of one's career is scary. Here is where Penumbra came to the rescue of the students, giving guidance which was much needed. Moderated by the **President of Penumbra, Ms Aditi Singh**, the session was attended by 153 students. The Graduate Record Examination or commonly known as GRE is a standardized test conducted by Educational Testing Services. GRE scores are accepted and required by almost all the top graduate level schools for master's degree programs. Ms. Singh emphasized that the first important thing for GRE is to decide when you want to give the exam and finalize the date accordingly. A candidate can appear for the exam 5 times in a year, giving the exam after every 21 days until one exhausts the limit. The session focused on the overall experience of the examination, from what the exam entails and how one should prepare for it, to how to send the score to universities after one has appeared for it. The exam consists of 3 sections Verbal Reasoning, Quantitative Reasoning and Analytical writing, where scores for Verbal and quantitative reasoning are reported on a scale of 130-170 with 1-point increments and that for analytical writing are reported on a scale for 0-6 in half-point increments. The overall test time is 3 hours 45 minutes where one sits for each section twice; also one gets a 10-minute break following the first three tasks. The

students were reminded to use their two free practice tests offered by the official site of ETS, wisely, giving the first one before starting their preparation to judge where they need to work and the other one before their exam to check their progress. The students were asked to pay close attention to the context of the words while they are preparing for verbal reasoning. Also, it was pointed out that Indian students have a major advantage in the quantitative section, and they can easily score 170 in this section. Some suggestions for preparatory material were given. Word Power Made Easy and the Barron's GRE book were some of them.

All in all, the open house session was a success and it cleared a lot of myths that students had about GRE. The session helped students to move a step closer in making their decision. A request for another session, covering TOEFL was also made.



## 10.7 XPERIA


**Vision:** Our mission is to develop young people with active creative minds, a sense of understanding and compassion for others, and the courage to act on their beliefs. We stress on the total development of each person’s spiritual, moral, intellectual, social and physical well-being. We nurture growth, responsibility, and productivity by celebrating our diversity.

**Objective:**

- The club focuses on five branches, namely ENGINEERING and TECHNOLOGY, PERSONALITY DEVELOPMENT, ASTRONOMY, QUIZZING and EVENT MANAGEMENT” and has a mission to advance for the cause of education in general.
- It pertains to bring out the latent talents of students for the welfare of the society.
- This is a professional, non-profit making committee.
- The major objective of XPERIA is to contribute in the production of top quality and highly skilled engineers who are ready to work selflessly for the society.

<b>OFFICE BEARERS</b>			
<b>Name</b>	<b>Post</b>	<b>Year in XPERIA</b>	<b>Photo</b>
MS. ALKA	President	2015-19	
MS. JIGYASA CHOTWANI	Vice President	2015-19	
MS. CHETALI SINGH	General Secretary	2015-19	

SAKSHI AGARWAL	Deputy Gen. Secretary	2015-19	
MS. MANJARI GOSWAMI	Joint Secretary	2015-19	
SUNAINA CHOUDHARY	Event Management Head	2015-19	
MS. DIMPLE NEHRA	Documentation Head	2015-19	
MS. AARUSHI SHARMA	Creative Head	2015-19	
MS. SHEETAL RATHORE	Technical Head	2015-19	
SAKSHI GUPTA	Publicity Head	2015-19	

HARSHITA RAJE	Treasurer	2015-19	
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**Faculty Mentor: Ms. Vagisha Nidhi**



### ACTIVITIES:

- 17th September'18-Orientation and an event "Fun and Frolic" with rounds like general quiz and Pictionary.



- 18th and 24th September'18- Society's Recruitments.



- 25th - 30th October'18- Online event with submission of digital posters on recent social media trends.

Timestamp	Name	School	Program	Year	Contact Number	Upload our Meme
10/26/2018 13:39:25	Mansi Aswani	School of Engineering and	B.Tech (CSE-IOT)	First	7733972200	<a href="https://drive.google.com/open?id=1QwVF41MB93UupTQ7Q">https://drive.google.com/open?id=1QwVF41MB93UupTQ7Q</a>
10/27/2018 14:11:40	Khushi Khandolwal	SET	B.Tech	1st year	6377984713	<a href="https://drive.google.com/open?id=14Mw_5h20vkg_zj3xFH13g0Roj_LXlum">https://drive.google.com/open?id=14Mw_5h20vkg_zj3xFH13g0Roj_LXlum</a>
10/27/2018 22:42:12	Aarshi Sharma	SET	B.Tech. CSE+IBM		9410424476	<a href="https://drive.google.com/open?id=1a3F9w9f_Xj_GJNRKc">https://drive.google.com/open?id=1a3F9w9f_Xj_GJNRKc</a>
10/27/2018 23:05:50	Aarshi Sharma	SET	B.Tech CSE+IBM		9410424476	<a href="https://drive.google.com/open?id=1Q9Q-95o4pL_QZK313o">https://drive.google.com/open?id=1Q9Q-95o4pL_QZK313o</a>
10/28/2018 11:06:10	Priyanshi Iala	School of engineering and	B.tech. CSE (Core)	1st	6378184773	<a href="https://drive.google.com/open?id=1OQvuu1868nQ5ADh-9">https://drive.google.com/open?id=1OQvuu1868nQ5ADh-9</a>
10/28/2018 11:11:33	Priyanshi Iala	School of engineering and	B.tech. CSE (core)	1st	6378184773	<a href="https://drive.google.com/open?id=1G9Y_xq0VAXPa18j1Hw">https://drive.google.com/open?id=1G9Y_xq0VAXPa18j1Hw</a>
10/28/2018 22:04:47	Aanchal sarda	School of management st	BBA. CSE (core)	1st year	8817474332	<a href="https://drive.google.com/open?id=1U_aVhwMIT_CBDGPYd">https://drive.google.com/open?id=1U_aVhwMIT_CBDGPYd</a>
10/29/2018 20:25:11	Priyanshi Iala	School of engineering and	B.tech. CSE (core)	1st year	6378184773	<a href="https://drive.google.com/open?id=1kAY2a3v1Y9a319h8q">https://drive.google.com/open?id=1kAY2a3v1Y9a319h8q</a>
10/30/2018 12:41:09	Vidhi maheshwari	Set	B.tech-M.tech	1st yr	9462530791	<a href="https://drive.google.com/open?id=16y1Bta5f1nqz7_CfXj">https://drive.google.com/open?id=16y1Bta5f1nqz7_CfXj</a>
10/30/2018 14:13:27	Anushri	SET	Btech CSE Core	1st	7461931516	<a href="https://drive.google.com/open?id=1P6mZyUvWwq5BVGy">https://drive.google.com/open?id=1P6mZyUvWwq5BVGy</a>
10/30/2018 14:36:48	Priyanshi Iala	School of engineering and	B.tech. CSE (core)	1st	6378184773	<a href="https://drive.google.com/open?id=1W0WVUJjnp6y7k1w">https://drive.google.com/open?id=1W0WVUJjnp6y7k1w</a>
10/30/2018 14:38:12	Priyanshi Iala	School of engineering and	B.tech. CSE (Core)	1st	6378184773	<a href="https://drive.google.com/open?id=1n8aF4LELVXe-laUM7">https://drive.google.com/open?id=1n8aF4LELVXe-laUM7</a>
10/30/2018 16:45:01	Khushi Khandolwal	SET	B.Tech	1st	6377984713	<a href="https://drive.google.com/open?id=1Ha4n4w715wqpbk3kI">https://drive.google.com/open?id=1Ha4n4w715wqpbk3kI</a>
10/30/2018 18:38:26	Vidhi maheshwari	Set	B.tech-M.tech	1st yr	9462530791	<a href="https://drive.google.com/open?id=15HD4p0x49GuU93xNc">https://drive.google.com/open?id=15HD4p0x49GuU93xNc</a>
10/30/2018 21:46:52	Khushi Khandolwal	SET	B.Tech	1st	6377984713	<a href="https://drive.google.com/open?id=1IRWIK_91ACo5KQ3BeI">https://drive.google.com/open?id=1IRWIK_91ACo5KQ3BeI</a>
10/30/2018 22:35:40	Vanshika Arora	School of engineering and	B.Tech CSE+IBM(15)	1st	9521221157	<a href="https://drive.google.com/open?id=1PJoRYg_P2m10H4Fd">https://drive.google.com/open?id=1PJoRYg_P2m10H4Fd</a>
10/30/2018 22:40:58	Shivangi gupte	Set	Btech		8890975660	<a href="https://drive.google.com/open?id=1Jf_S_VzHKKk_Y_N88">https://drive.google.com/open?id=1Jf_S_VzHKKk_Y_N88</a>
10/30/2018 22:46:03	Shivangi gupte	SET	BTECH		8890975660	<a href="https://drive.google.com/open?id=1qg4CQwFCu5p3y4d8">https://drive.google.com/open?id=1qg4CQwFCu5p3y4d8</a>
10/31/2018 13:36:53	Priyanshi Iala	School of engineering and	B.tech CSE (core)	1st	6378184773	<a href="https://drive.google.com/open?id=172ITAG4WX3ymCl2m">https://drive.google.com/open?id=172ITAG4WX3ymCl2m</a>
10/31/2018 21:28:26	Priyanshi Iala	School of engineering and	B.tech CSE (Core)	1st	6378184773	<a href="https://drive.google.com/open?id=1U111E7763046102">https://drive.google.com/open?id=1U111E7763046102</a>

- 30th November' 18- Intra house session on group discussions, debate.



- 8th January'19- In-house discussion on future events.
- 19th February' 19- Inter-school event for personality development including rounds like pitching ideas for products as advertisements and writing fictional character description.



- 16th April'19- Intra-house session including debate and science and technology quiz.



- 20th April'19- Competitive Coding session.



- 21st April'19- Intra-house observation of different constellations like Orion, Vega etc. in guidance of faculty mentor Ms. Vagisha Nidhi.



#### **FUTURE PLAN:**




- Regular observation of the night sky according to the astronomical calendar.
- Quizzing events based on science and technology.
- Workshop on Astronomy.
- In-house competitive coding sessions.
- Events for personality development.



## 10.8 ENGINIUM

**Vision:** When the little creative minds are pricked and praised by the teachers at the right time, these will erupt like a volcano where from flows the wonderful literary work. School magazine reflect the identity of the educational institutions and is an integral part of the education system. And, what is primary is that it gives us a plethora of opportunities to showcase talents. Enginium, the official magazine of SET provides an amazing platform in the form of the college magazine to all the budding writers and talent heads of SET and to communicate and spread their ideas through Enginium.

**Objective:**

- To serve as a platform to highlight the literary and artistic segment of the SET family. It forms a bridge between flowing thoughts and artistic magnification.
- It consists of 8 teams- Art, Creative, Journalism, Technical, English, Hindi, Photography and Marketing
- The Enginium team works to bring out the annual official student publication.

<b>OFFICE BEARERS</b>			
<b>Name</b>	<b>Post</b>	<b>Year in ENGINIUM</b>	<b>Photo</b>
MS. SNEHA AGARWAL	Editor	2015-19	
MS. MUSKAN GUPTA	Deputy Editor	2015-19	
MS. SHIVANI JINGER	Deputy Editor	2015-19	

NANDINI SONI	Head Designer	2015-19	
BHAGYASHREE ROKADIYA	Head Designer	2015-19	

Faculty Mentor: Dr. Purnima Sharma



➤ Content Submissions (articles, artwork and photographs) on :

1. 15th June, 2018
2. 10th July, 2018
3. 25th September, 2018
4. 22nd October, 2018
5. 12th November, 2018

**PRATIBIMB-**

Monthly Newsletter of SET



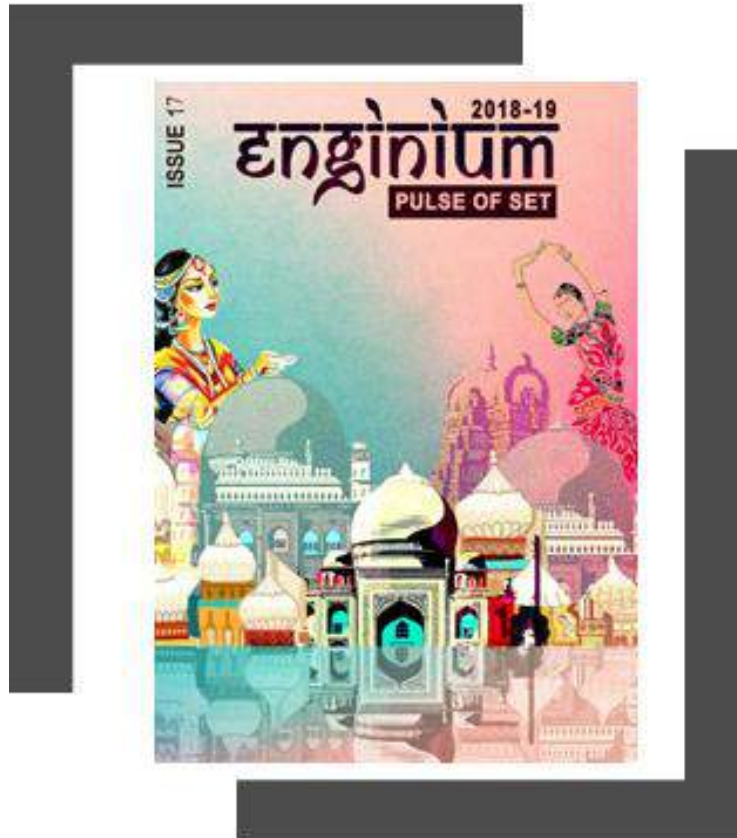
➤ **Events Coverage by Enginium Photography Team**

- Independence Day (15<sup>th</sup> August, 2018)
- Founder's Day Celebration (FDC) (22<sup>nd</sup> January, 2019)



- **Workshops conducted by Creative Team on Photoshop – 29<sup>th</sup> September, 2018.**
- **Workshop on Basics of DSLR conducted by Photography Team- 31<sup>st</sup> October, 2018**
  - Theme: Heritage of India
  - Issue – 17
  - Work Done -
    - Designing of Magazine – January
    - Compilation – February
    - Current Status: In print





- The theme of this year's issue is **Heritage of India.**
- Through this magazine we want our readers to experience rich culture and diversity of India like never before.

## SIKKIM

**THE LAND OF MYSTIC SPLENDOR**

Culture is determined by the people, religion, language, music, dance, arts & crafts and cuisine of a place. Sikkim – a state renowned for its dazzling beauty has its own culture made by blending all these attributes. People having their domicile in Sikkim are from diverse communities with different cultures, tradition, language, food habits, religion, speak different languages. Yet they stay together in peace and harmony, embrace and celebrate a variety of festivals, the so-called Cuisine of Sikkim is actually the bizarre combination of cuisines of people from different regions and countries like Nepal, Bhutan, and Tibet. Speaking of religion – People here are religious and devoted. Perhaps, Buddhism comes out to be the predominant religion practiced in the state. Though the actual religion followed by the majority of the people is Hinduism. Festivals bring joy to the monotonous life and India is a land of festivals. Sikkim is painted with colors of festivities by the mutual participation and harmony of people residing here. Hindu festivals like Holi, Dusshera, Diwali, Jannashanti, and Saravati Puja are celebrated with great enthusiasm and same zeal like that in any other part of the country. Other major festivals that are celebrated with full gusto and fervor includes-

- Lhabab Dhauchen Festival which represents the coming down of Lord Buddha from heaven after teaching his deceased mother.
- On the occasion of Kagyad Dance Festival, Kagyed Dance is performed by Monks which portrays the destruction of evil forces and wishes for peace, harmony and prosperity.
- Gurni Rinpoche's Tsungkar Tchochu – It is celebrated in honor of Guru Rinpoche, the first Buddhist in India who blessed Sikkim.

The state of Sikkim observes five seasons – winter, summer, spring, autumn and monsoon. The best time to experience the scenic beauty and winch a mesmerizing view is during summers when one gets plenty of time to enjoy the blooming rhododendrons and orchids that grow in the region.

But what makes Sikkim different from any other part of the country? Catching a mere sight of a single fresh flower refreshes the mind of a person. So imagine what will happen if one just opens his/her eyes and gets a colorful treat of fragmenting flowers all around them. In its terrains, Sikkim has an International Flower Festival held in summers which gives the exceptional show of varieties of flower species like gladioli, roses including the rare orchids and rhododendrons. Want to spend some quality moments in solitude? Well, Gangtok is the perfect place – one of the most beautiful hill stations in the country. Apart from that Nathula Pass is renowned for its diverse alpine flora and fauna. Rumtek Monastery – situated at 24 kms from Gangtok, appears soothing and undisturbed amidst the picturesque background of lofty and craggy hills and soothing waterfalls. It was built under the supervision of the 9th Karma Lama, Wangchuk Dorje and the fourth king of Sikkim provided the financial assistance. Himachal Zoological Park is for the lovers of wildlife. It is in Balbhalay, 3km from Gangtok. It was created to protect the wild creatures without hurting them and disturbing their habitat. Situated at a height of 3640 ft, it also renders a splendid view of Mt. Kangchenjunga. But for some people, life is all about taking risks. If one wants to live every moment of life with thrill, Sikkim does not disappoint in that department too. The sports here send the chills down one's spine. Be it river rafting in the icy waters of rivers or trekking at inconceivable heights. Or maybe Yak Safari, moving through craggy trails and trying one's impeccable driving skills in Mountain Biking. Somebody might enjoy the Sikkim Mountain-seeing joy. Sikkim is a small state in terms of area but the elegant natural beauty here is so vast that if one sees, it would not be difficult for anyone to savor and appreciate the state for its wonderful splendor.

-Meenal

## HELLO UDAIPUR

Firsts are always special and if it's your first ever trip with your gang of friends to the enchanting city of lakes then it surely is more than just a snazzy bookmark in your life's book. I remember every intricate detail of my visit in this serene city. In every way, it made me feel belonged to it. It embraced me like I was always meant to be there. Just be there. The adjectives the travel bloggers use to describe it seem to be very less in glorifying the beauty and the calmness this city withholds. The moment you step into this city and it magically makes you its own. In strange unexplainable ways, the city feels nothing less than a paradise. It is an epitome of valor and courage. Every nook and corner of the City of Royals tells tales of the by gone era and fills you with nostalgia. It has an old world charm to add to its grandeur. To commence with, the Fatehsagar lake has a spell like no other place. Flanked by the Aravalli hills, the boating scenes are insane here. Amidst the blue water, witnessing the sunset and listening to old Hindi songs, how much more fortunate one should be to be able to live in such a moment? This place has a setting that gives you ample time to introspect, wonder and witness the beauty of nature which we often miss out in our mundane lives. Also, food scenes are crazy cheap yet finger licking.

Next on the list are palaces like City Palace and Sajjangarh. Overlooking Lake Pichola, Sajjangarh Palace is a classical wonder which offers the panoramic view of the city. To be able to unveil the layers of history is nothing but a treat for lovers of history and this is exactly what City Palace offers to its visitors. It was built by Maharana Uday Singh and it is splendor personified. It is made of granite and marble and has intricately carved walls with mirror work and murals. It has spectacular architecture and is a visual feast to the eyes. There's also hold on religious sites like Karni Mata temple, Jagdish temple etc. Karni Mata temple is situated atop the hill and there's ropeway to reach there. While the journey to reach the temple, one witnesses blue sheer blue water on both sides paying a view of the entire city. Nature is at its best here. To peek into the vibrant and royal culture of the city, there are shopping streets like Itahi Pol, Chetak Circle, Bada Bazaar etc. There are places in the world that make you realize how beautiful and magnificent nature is and how small we are in front of it. Such places add color to the everyday breeze of your life. I remember Udaipur like no other city. In my head, I still haven't returned from this place. Udaipur, you will forever hold a piece of my heart like nothing else do!.

-Adhishi Polharna

## CAMEL FESTIVAL OF BIKANER

Bikaner Camel Festival is celebrated every year in the pleasant weather of January. It celebrates the honor of the ship of the desert, Camel. The festivities are at par with the other celebrations of Rajasthan. The event mainly includes spectacular camel performances like camel dances, camel races, neck shaking camel rides etc. This yearly event is dedicated to the tough animals surviving the harsh desert conditions. The festival was organized as an initiative by the Department of Tourism, Art & Culture of the Rajasthan Government. Since the era of the founder of the city Rao Bika Ji, Bikaner is the only camel breeding region. The gentle beasts raised here have been enlisted even in the army. The camel corps are known as "Ganga Risala" and have served in the world wars and Indo-Pak wars. Indian army still maintains a regiment where these brave animals loyally serve in the Border Security Force.

The Camel Festival in Bikaner is a two day affair. The festivities start off with a colorful parade of beautifully adorned camels against the backdrop of majestic Junagarh Fort. People enjoy the spectacular displays of camels dressed in vibrant bridles, traditional saddle and heavy skirts showing off wonderful look on the lovely tines on desert sands. They also witness the array of camel ride events, camel games and other cultural performances. Hundreds and thousands of tourists and locals revel in this traditional festival and feel absolute pleasure in the delightful ambience.

Though the festival is exclusively organized to glorify the camels, the traditional Rajasthani folk dance performances and music add largely to the charm of this festival. The fascinating fire dances add glamour to this festivity. The ambience of the fair inspires fire dancers to perform brilliant acts. Their skills and the shows are nothing short of spectacular. The melodies of folk music are a soothing sensation which charms and mesmerizes all those who hear it. The puppet shows are also amazing. The colorful stilted puppet dolls narrate intriguing local folklores. The festival concludes with a spectacular fireworks display which illuminates the skies of Bikaner.

After visiting the Camel Fair in Bikaner, people explore some of the city's other attractions. There is the Junagarh Fort, which stands out due to its intricate stone carvings that adorn the red and gold colored sandstone. Then there is Devi Kund, a collection of cenotaphs (chhatris) which showcases an amazing blend of Rajputana and Islamic style of architecture. Kote Gole, the main entrance gate of Bikaner, separates the old city from the new. Bhanosar Jain Temple, is an excellent Jain architecture dedicated to Surpanash, the fifth Tirthankara of Jainism. Prachin Cultural Centre & Museum is one of the main storehouses of the historical objects and ancient artifacts of Bikaner. Desnoek Temple, also known as Desnoek Kami Mata Temple, is dedicated to Kami Mata and is famous as the temple where rats are venerated. Ganga Government Museum, founded by Maharaja Ganga Singh, showcases items ranging from terracotta objects to medieval musical instruments. Shri Bari Temple stands out for its architectural features like pavilions, domes and columns.

-Ananya Singh

## A letter to Rajasthan

To dearest Rajasthan,

I believe that the most vibrant and compassionate sunsets are visible on this barren land where culture flows in the historical nature. These peculiar sunsets which make the sand look like gold hedchers on the blue planet and sunsets which paint the sky in hues of orange, yellow, brown and even grey are a part of every Indian who for once has visited this welcoming state of Rajasthan.

Dear Rajasthan, yes I'm calling you dear because you have given innumerable reasons for me to call you mine. I, as a child, remember those fancy, colorful and historical puppets! The tales of Pridviraj Chohan, Maharaja Pratap and many more. I remember as a child with the rulers on those stuffed and beautiful horses. The puppet master used to unveil the harsh yet powerful stories with the traditional Rajasthani folk songs. I used to feel like I'm a patriotic warrior and I used to feel that it's my national duty to protect my king and that it's my responsibility to serve my nation even if it costs my life. The great and grand Rajasthani puppet shows used to bring the arena of those wars where the Rajasthan was strategically an important state and that the natives were devoted to this land. Rajasthan, thank you for those dramatic puppets.

Dear Rajasthan, I'm writing this letter to let you know how obsessively aware I'm of the rich tradition that you offer. Ladies in black abayas with the detailed mirror work always amazed me with their performances on the pompous ethnic songs. As a child, the tall and radiant dancers with Nathana and Kingras grooving on the stage with lyrics of Mahkas in their heads always attracted me. I was always impressed with the mood and set of making up the eyes of the audience. Thank you for giving me a sturdy night on that Khlat with pleasant tones and spectacular performances to witness.

Dear Rajasthan, I'll never have enough of you in my camera. Those majestic and huge forts, those distant and cultural markets, those vast and arid deserts, those adventurous camel rides, those valuable and unique shops of expensive stones and blue pottery, those filled lakes and ponds, and those embracing people who offer you tea everytime you cross them. If any day someone visits your land they will know how rich the Rajasthan is when they will drink that one cup of tea with a resident who will sing songs of glory.

While I left you, my heart is still arguing for more. The elephants, the horses, the tombs, the narrow lanes, the colorful windmills on the walls, the shikaras, the wells, the bangles, the jhat of Pushkar, the temples, the... I'll stop here. Maybe I'll still figure out the best from you the next time I come to see you. Maybe I'll be surprised to see the new you completely blended with the present you. Maybe I'll be able to cherish the camels. Maybe I'll be able to see the fireworks and that day I'll be able to complete this letter of appreciation with full conviction. I hope I'll come here again.

Yours sincerely,  
A tourist with a diary and a camera.  
Pratima Barman

# ART



**GURLEEN KAUR**



**SHREYA DAVE**



**Shreya Dutta**  
4th year



**Muskan Soni**  
4th year



**Loniya Vyas**  
3rd year



**AARUSHI RAJPUT**



**MUSKAN SONI**

# PHOTO GALLERY



### Achievements:

- **“Botnet of Things: Menace to the Internet of Things”** published by Tarini Tyagi, member of Technical team.



Tarini Tyagi is an undergraduate in Computer Science and Engineering with specialisation in Big Data. She is the author, developer of the prominent blog "Technica: The Technolitics Club", which is a real platform for tech aficionados.

Tarini Tyagi  
**Botnet of Things**  
Menace to Internet of Things

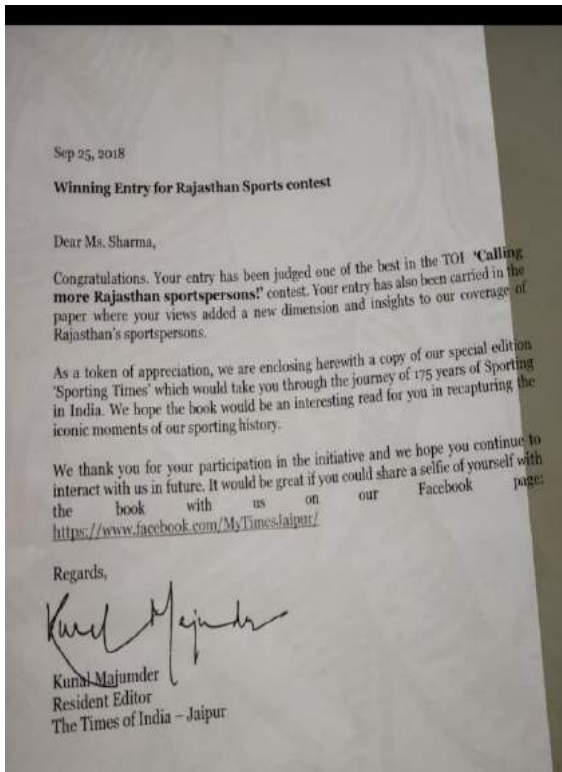


978-613-9-87050-9



- Article written by Barkha Sharma, member of English Team, on **“how Rajasthan can produce more sports champions”** was selected among the top five best entries and published in Times of

India.



**FUTURE PLAN:**

- Issue 18
- Workshops for creative & technical writing
- Art & Photography Exhibition
- Workshop on skill development for budding journalists

## 10.9 ENACTUS

### About the Enactus:

**Entrepreneurial-** initiating business innovation with integrity and passion

**Action-** the experience of social impact that sparks social enterprise

**Us-** student, academic and business leaders collaborating to create a better world


Enactus is an international nonprofit organization dedicated to inspiring students to improve the world through entrepreneurial action. It provides a platform for university students to create community development projects that put people's own ingenuity and talents at the center of improving their livelihoods. It is guided by educators and supported by business leaders. Enactus student's work transforms both the lives of the people they serve, and in turn, the lives of the students as they develop into more effective, values-driven leaders.




**Vision:** Enactus was started to improve the lives of BPL section of Lakshmgarh and nearby areas by providing them a platform to improve through business ideas.

**Mission:** Through sustainable and innovative business models we intend to develop solutions and business models that could easily fit into the lives of the people living in the rural. It starts by working as an intermediate between the market and the workers and after the venture is established then the workers directly supply the products to the market without any intermediates. This result in communities benefiting from collaboration and fresh innovation, plus students gain the valuable experience to advance their personal and professional lives.

### Objectives:

- To provide a platform for teams of outstanding university students to create community development projects that put people's own equity and talents at the center of improving their livelihoods.
- To empower people to be a part of their own success.
- Transforming both, the lives of the people we serve, and in turn, the lives of our students as they also develop themselves into more effective, values-driven leaders.
- Provides a forum for university teams to showcase the impact of their outreach efforts which will be evaluated by executives serving as judges nationally as well as internationally.

OFFICE BEARER			
Name	Post	Year in ENACTUS	Photo
VIDUSHI ANAND	President	2017-2019	

ADITI SINGH	Vice-President	2017-2019	
MUSKAN SINGLA	General Secretary	2017-2019	
NAVYA MATHUR	Finance Head	2017-2019	

**Faculty Mentor:** Dr. Sanjeev Jakhar



## ACTIVITIES:

### ➤ Project Silver Needle

This Project aims for generating employment for the unemployed widows who are not able to earn even a course of meal and live in misery. This Project aims to help them inculcate the skills to produce the regular bags, bottle bags and jewellery bags from the old cloth material like materials from T-Shirts, Sarees, Bed sheets, etc. The bags produced were cheaper than the retailed bags also it is also ecological due to the old clothes. Our target market was small shops and malls where they need it in bulk and that too at a cheaper cost hence the widows will become the employers of their own and generate a good amount to improve their lifestyle.

### ➤ Phases of the project

**PHASE 1- Market:** Where can we sell the product?

We aimed to sell the bags to local shopkeepers and vendors who because of the ban on the plastic bags had to provide their customers with something to carry their articles. We fixed the deals with some of the Ajmer and Jaipur shopkeepers.

**PHASE 2- Sponsorships:** Convincing the established companies to support us and fund our project.

- PayMonk
- Daksh Industry

**PHASE 3- Target Group:** We concentrated on the women living around us like the helpers of our hostels and widows in the areas who are familiar with sewing and stitching.

**PHASE 4- Collecting Resources:** We started by collecting various items that are needed

- Waste cloth materials from our own houses and separating them according to the quality of the material.
- Renting sewing machines.
- Purchasing things like threads, laces and other items for decoration.

**PHASE 5- Production & Quality Check:** Regularly monitoring the workers and helping them with the production and making sure that the bags are made according to the desired dimensions given.

**PHASE 6- Sampling:** After the quality check of a smaller batch of final products are then send to the market and the shopkeepers for final check and confirmations.





**Results:** The local women have started earning without any financial investments.

#### **Project Advantages**

- Women feel a sense of pride and confidence by earning.
- Product (Cloth Bags) are widely used and environment friendly.
- Production time is less.
- Women don't require high skilled trainings.
- Follows the 3R (Reduce, Reuse, and Recycle).
- University location allows easier communication between the workers and the students.
- Women participation.

#### **FUTURE PLANS:**



- Recently, few vendors in Sikar also approved to buy bags from us as the ban of plastic bags became stricter. Hence getting new nearby market.
- Connected with Jaipur trainers for training the workers for screen and block printing on variety of clothes.
- Enactus National Competition.



## 10.10 Mozilla MITS

**Vision:** Our interaction with today's Internet follows a pattern. We discover websites, content, apps and people of interest in many ways. We then have some sort of experience with them, sometime shallow, sometimes deeper. These deeper connections augment and amplify the experience and often lead to discovery by others, and the cycle begins anew. Mozilla is uniquely positioned to deliver experiences that put the needs of the user first, above profits and above exploiting their personal data.

**Mission:** At Mozilla, we're a global community of technologists, thinkers and builders working together to keep the Internet alive and accessible, so people worldwide can be informed contributors and creators of the Web. We believe this act of human collaboration across an open platform is essential to individual growth and our collective future. Our mission is to ensure the Internet is a global public resource, open and accessible to all. An Internet that truly puts people first, where individuals can shape their own experience and are empowered, safe and independent.

**Objective:** Mozilla MITS is Mozilla **Open Source Community** of Mody University of Science and Technology. It is a Mozilla Foundation formed under the Mozilla Campus Club initiative. We as a society have a passion for building the open web. From organizing the workshops for students to learning new skills that lift our zeal for a technologically advanced world, we do it all.

OFFICE BEARER			
Name	Post	Year in Mozilla MITS	Photo
AVANI RANADE	General Secretary	2015-2019	
ALKA RANA	Deputy General Secretary	2015-2019	
JIGYASA CHOTWANI	Deputy General Secretary	2015-2019	
SHIVI GUPTA	Technical Head	2015-2019	

ARSHIYA SINHA	Social Media & Blogging Head	2015-2019	
MANISHA PRAJAPAT	Social Media & Blogging Head	2015-2019	

**Faculty Mentor:** Mr. Somil Jain



## ACTIVITIES:

### ➤ 24<sup>th</sup> September'18 - Orientation and Introduction to Rust

Rust is a systems programming language sponsored by Mozilla Research which describes it as a safe and practical language. It supports functional and imperative-procedural paradigms. The Rust syntax is similar to C++, but the main purpose of developing Rust was to provide better memory safety while maintaining the performance. It is an open source language. Rust language was introduced and basics of the language were taught to attendees.



➤ **28<sup>th</sup> September'18 - Society's Recruits**

New members for the session 2018-19 were recruited. There were two rounds – written round and interview round. A total of 12 students were recruited.



➤ **14<sup>th</sup> January'19 - A-Frame and Bugzilla In-house session**

Introduction to A-frame and Bugzilla was given to the Mozilla MITS members and they were persuaded to contribute in the same.

➤ **25<sup>th</sup> January'19 - In-House Discussion for Future Events**

The future plan-of-action was discussed and decided.

➤ **28<sup>th</sup> February'19 - Session on GitHub and Git**

Difference between Git and GitHub was explained. Students were taught how to use them and contribute to open source.



➤ **3<sup>rd</sup> April'19- Outreachy and GSoC (Google Summer of Code)**

These internship opportunities were made acquainted with. The application procedure was explained and the students were persuaded to apply in both of them.

➤ **9<sup>th</sup> April'19-A-Frame workshop**

A-Frame was introduced. Students were taught basics of HTML and A-Frame tags. Students learnt to create various scenes in A-Frame, like, moving shapes, creating GIFs, weather scenarios, patterned objects etc.





**FUTURE PLANS:**




- Html, css, JS, Bootstrap/Materialize, Type Script, GitLab, APIs Database.
- GitHub and Mozilla's contributions.
- Localization
- A-Frame

## 10.11 UTKARSH – CSI Student Branch

UTKARSH: CSI-MUST Student Branch is the Student Branch of the Computer Society of India (CSI) at School of Engineering and Technology, Mody University of Science and Technology, Lakshmangarh and our Student Branch has been functioning here at SET-MUST from 2015 onwards. Various Technical Events are organized in every Semester.

Our events are intended to encourage and promote specialized development and touch off creativity and informativeness among students by organizing seminars, workshops, and specialized technical events.

OFFICE BEARERS			
Name	Post	Year in UTKARSH	Photo
SAMRIDHI MEHTA	General Secretary	2015-2019	
ALKA RANA	Deputy General Secretary	2015-2019	
CHETALI SINGH	Technical Head	2015-2019	
NAVYA MATHUR	Technical Head	2015-2019	

TANYA SINGH RATHORE	Documentation Head	2015-2019	
DIVINA MAHESHWARI	Documentation Head	2015-2019	
SHEETAL RATHORE	Website Head	2015-2019	

**FACULTY MENTOR:** Dr. Anand Sharma



### ACTIVITIES:

➤ **Poster Making Competition Theme : DREAM TECHNOLOGY (15th September, 2018)**

Open to all the students of School of Engineering and Technology, this event allowed the students to showcase their creativity in poster making depicting their dream technology.

➤ **GitHub Session(10th October, 2018)**

Members were explained the importance of GitHub



➤ **Open Session on Google (16th October, 2018)**

Students of School of Engineering and Technology were invited to attend a session on Google presented by the third year students of Utkarsh – CSI



➤ **Competitive Coding Session (17<sup>th</sup> October, 2018)**

Workshop taken by the final year students to teach the students how the test cases of different coding platforms work.

➤ **Project Competition (18th November, 2018 – 18th February, 2019)**

➤ **Quiz (13<sup>th</sup> April 2019)**

A surprise quiz was organized for the members to enhance their general knowledge in technology.

**FUTURE PLANS:**


- Utkarsh – CSI plans on continuing the in house sessions as well as activities like Tech-Talks, Project Submission etc.
- We plan on introducing more technical fun activities which teach the students the balance between academics and co-curricular.
- We also have a bigger and better version of Droid planned and we plan to make it an annual event.

## 10.12 AIESEC

**Vision:** AIESEC in Mody University is an expansion of AIESEC in Jaipur. AIESEC is the only society in our university which includes students from all the colleges of our university providing the students more exposure. We believe that by removing the social and cultural taboos in the society and enabling the people to interact and communicate with people from different countries we can achieve world peace. This is why we provide international internship opportunities to the students. It is a firm belief that the young minds of today's youth will help provide a better future with more harmony than war. The international opportunities provided are based on the agendas/issues put forth by the United Nations. The interaction and communication opportunities provided to the students help increase their social and general awareness and make them capable of making sound judgments in their future without any discrimination and superstitions.

### Objectives:

- Providing International Internships
- Leadership Opportunities
- Increasing social and general awareness
- Interaction with youth from all over the world
- Removing social taboos by improving interaction
- Creating a world free of judgment

OFFICE BEARER			
Name	Post	Year in AIESEC	Photo
AVANI MEHTA	Team Leader – Outgoing Exchange(OGX)	2015-19	

**Faculty Mentor:** Mr. Satyajit Anand



### ACTIVITIES:

- A set of games were organized on international entrepreneurship theme to **promote Global Entrepreneurship** in the month of November.
- Induction seminar was conducted for the new students in August.
- **Awareness Program** was conducted in which students went to spread awareness in a nearby orphanage in February.

### 10.13 BEACON

**Becoming Engineers Acquiring Confidence over Novelty**, A society created and lead by the students of Mody University representing the Electronics and Communications department with a blend of enthusiastic student-members from almost all departments of the college.

**Vision:** Focus on imparting knowledge and giving members a strong technical base for their careers, help aspiring minds achieve confidence and an overall personality development by enhancing various communication and presentation skills in the most creative ways.

OFFICE BEARERS			
Name	Post	Year in BEACON	Photo
ARPITA MANJHI	General Secretary	2015-19	
SNEHA AGARWAL	Deputy General Secretary	2015-19	
HIMANGI GOPAL	Management Head	2015-19	
TAVISHI	Technical Head	2015-19	
JANHAVI SINGH	Technical Head	2015-19	

Faculty Mentor: Dr. Rajeev Pourush



### ACTIVITIES:

- **Electronic workshop (23 – 24 October, 2018)**

The team of BEACON conducted the Electronic Lab Workshop for the first year students. The aim of the workshop was to familiarize the first year students with the basic electronic components, their usage, properties and the practical knowledge related to it. The workshop was held for two consecutive days i.e. 23rd and 24th October, 2018 in Electronics Workshop Laboratory -LG 14. Various lab topics like basic introduction to electronic components, Diode and Transistor characteristics, Ohm's law etc. were taught by 2nd and 3rd year students of BEACON. Around 85 students from first year participated in the workshop.

SNo.	TOPIC	STUDENTS
1.	Basic Introduction	Ms. Saumya Sharma (2nd year ECE) Ms. Geetanjali Sharma (3rd year ECE)
2.	Ohm's Law	Ms. Princy Sultania (2nd year CSE)
3.	Lab Wires and Apparatus	Ms. Anisha Gautam (2nd year ECE)
4.	P-N Junction	Ms. Shrishti Vyas (2nd year EE)
5.	V-I Characteristics of Diode	Ms Divyansha Agarwal (3rd year CSE)
6.	V-I Characteristics of Zener Diode	Ms. Aditi Choudhary (3rd year ECE)
7.	N-P-N and P-N-P Transistor	Ms. Vandita Vyas (2nd year ECE)
8.	Clipper	Ms. Prakshi Jain (2nd year ME)
9.	Clamper	Ms. Anjali Barala (2nd year CSE)
10.	Half-wave Rectifier	Ms. Shivangi Rathore (2nd year EE)
11.	Full-wave Rectifier	Ms. Anika Shrivastava (2nd year CSE)
12.	Soldering	Ms. Shruti Kajla (2nd year ME)



• Intra Society Knowledge Enhancement (17 January, 2019)

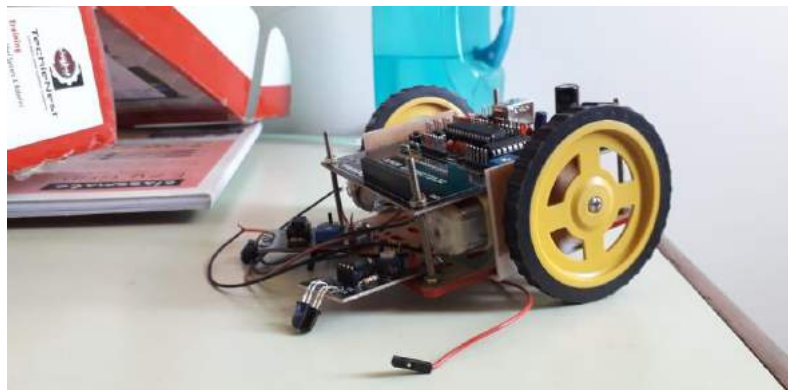
S.No.	TOPIC	STUDENTS
1.	OLED Technology (Technical)	Ms. Saumya Sharma (2nd year ECE)
2.	A study on non-Newtonian fluids (Technical)	Ms. Khushi Khandelwal (1st year CSE)
3.	Virtual Dating (Non-Technical)	Ms. Shrishti Vyas (2nd year EE)
4.	Air powered cars(Technical)	Ms. Ritika Mittal (1st year CSE)
5.	Time Travel(Non-Technical)	Ms. Ananya Chaudhary (1st year CSE)
6.	Blue ray Disc(Non-Technical)	Ms. Anjali Barala (2nd year CSE)
7.	Blue Eyes (Technical)	Ms. Shivangi Rathore (2nd year EE)
8.	Bio-mems (Technical)	Ms. Bhoomika Rathore (1st year CSE)
9.	Punchscript (Technical)	Ms. Sanya Singh (1st year CSE)
10.	FPGA Architecture and Applications (Technical)	Ms. Anisha Gautam (2nd year ECE)



- Participated in Droid (23 – 24 February, 2019)



- Participated in JECRC tech fest (16 – 19 March, 2019)



- Summit Editing (April, 2019)



#### FUTURE PLANS:

- To conduct electronic workshop every year
- To conduct more ISKEs sessions
- To conduct INNERVE
- To participate in more technical fests like LMNIIT, JECRC, IIT Jodhpur, BITS PILLANI

## 11. RESEARCH & DEVELOPMENT CELL

Research is the distance between an Idea and its realization hence, the Research Development Cell at School of Engineering and Technology is dedicated to facilitate the research community which includes students as well as academia. In order to foster the research culture and ensure prolific research to conquer the new avenues, the cell has envisaged and conceptualized nine research groups. Each research group works consistently in the domain of current demands of the industry and society at large. Their performance is being monitored and necessary support will be provided by the R&D Cell.

Further, in order to recognize quality work of the research community across the globe, the cell publishes its biannual journal titled “Mody University International Journal of Computing and Engineering Research (MIJCER)”. It is peer reviewed journal which publishes limited and quality papers after a rigorous review process followed by plagiarism check through licensed software Turnitin. The journal is registered under OJS (Open Journal System) and indexed in J-Gate database and soon it’s going to be indexed in EBSCO database.

- Dr. Sanjeev Jakhar published a patent on **“A LIQUID-COOLED HYBRID SOLAR ENERGY COLLECTOR”**.

The cell is governing the project titled **“Artificial Intelligence and Machine Learning”** in collaboration with Royal Academy of Engineering, UK and Bennett University, which was formally inaugurated by AICTE, Chairman, Prof. Anil Sahasrabudhe. The objective behind this project is to disseminate the knowledge about Deep Learning in local vicinity as well as development of some innovative smart gadgets for the welfare of mankind.

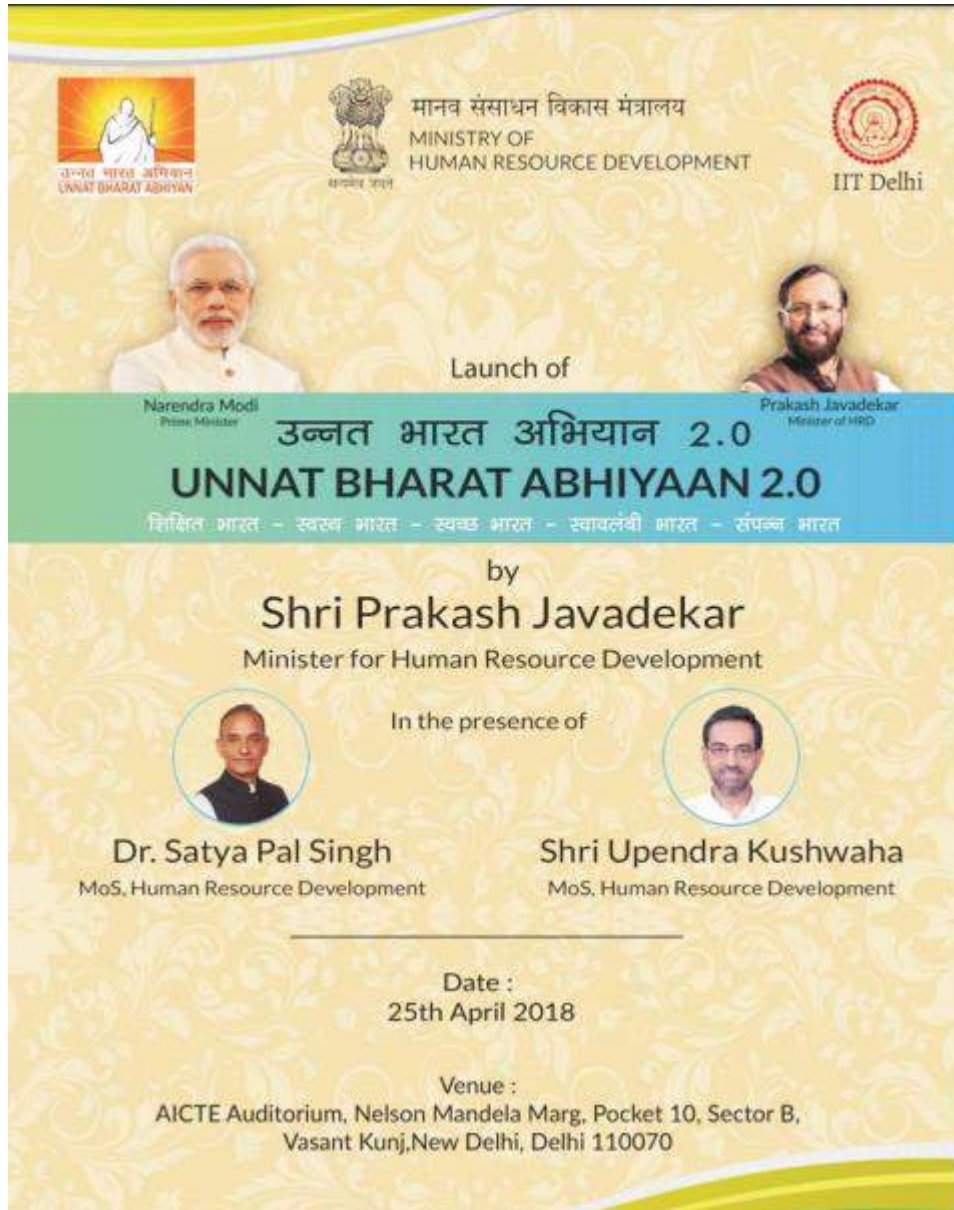
- Two day’s workshop titled **“Artificial Intelligence and Machine Learning”** was organized by School of Engineering and Technology on **April 13-14, 2019**. The workshop was conducted under the umbrella of “Leadingindia.ai” project, which is a collaborative venture of Royal Academy of Engineering UK, Bennett University, Greater Noida, NVidia Corporation and SET, Mody University of Science and Technology. The workshop was inaugurated by Prof. V. K. Jain, Dean, School of Engineering and Technology. Besides holidays on said dates, a group of 12 faculty members and 29 students’ enthusiastically participated in the workshop and experienced the tremendous capabilities of Deep Learning. The resource person for the workshop was Prof. Suneet Gupta from Bennett University.

The workshop was full of hands-on sessions along with conceptual knowledge about the contents. It was followed by an assessment in which Ms. Sukriti Shah (B.Tech. CSE-II year) has secured highest score. E-Certificates were also issued to all participants. Dr. Puneet Kumar (Workshop Coordinator), Dr. S. S. Verma and Mr. Hitesh Jangir were also remained present during the workshop to facilitate the participants during practical sessions. The students as well as faculty members not only enjoyed but also learned a lot with the workshop.



## 12. UNNAT BHARAT ABHIYAN (UBA)

The Unnat Bharat Abhiyan is the ambitious initiative of MHRD, Government of India which envisages that, the technical institutions should come forward along with their students for upliftment of the rural society. UBA is a platform for the students to show their technical skills by providing technical solutions for problems faced by local rural society. It also undergoes activities related with sensitization of the people about various issues like education, women empowerment, health, hygiene, sanitation, wastewater management, agriculture, addiction etc.



IIT-Delhi is the Central Nodal Agency who is controlling and monitoring the functioning of UBA across the nation. Mody University of Science and Technology is also associated with UBA as Participating Institute (PI) vide AISHE Code: U-0412. The university has identified five nearby villages viz Lalasi, Bau, Yalsar, Bhuriya ka bas and Narodara.

Hence responsibility of UBA is bestowed upon following energetic members by including them as a part of UBA cell at Mody University:

1. Dr. Puneet Kumar, CSE, SET (Nodal officer, UBA)
2. Dr. Sanjeev Jakhar, ME, SET (Member)
3. Dr. Vinod Mann, CSE, SET (Member)
4. Dr. Purnima Sharma, ECE, SET (Member)
5. Mr. Mukul Kant Paliwal, ME, SET (Member)

### Following activities have been performed under UBA so far:

1. A Nukkad Natak (Street Play) was performed by the students of Mody University of Science and Technology at Village Yalsar, Block: Lakshmangarh, District Sikar, Rajasthan under Unnat Bharat Abhiyan. The title of the play was "JAGRITI" and it was performed by 25 students at Choupal on **17 February 2019**. The theme of the play was the dissemination of awareness about women education, health, sanitation, and superstition. With the help of play, information about some important government schemes was also disseminated.



## मोदी विश्वविद्यालय की छात्राओं ने यालसर में किया सर्वेक्षण

लक्ष्मणगढ़ (सीमा सन्देश संवाददाता)। मोदी विश्वविद्यालय की छात्राओं द्वारा ग्राम यालसर में भारत सरकार के बहुआयामी प्रोजेक्ट उन्नत भारत अभियान के तहत एक दिवसीय कार्यक्रम का आयोजन किया गया। इसके अर्न्तगत मोदी विश्वविद्यालय के विभिन्न संकायों की तीस छात्राओं द्वारा गांव में एक सर्वेक्षण किया गया। सर्वेक्षण के अलावा छात्राओं ने गांव की मौजूदा समस्याओं को

जहां एक तरफ समझने का प्रयास किया वहीं दूसरी तरफ ग्रामीणों से इसके समाधान पर भी विस्तृत चर्चा की। कार्यक्रम के दौरान यालसर के सरपंच विनोद कुमार शर्मा भी उपस्थित रहे, जबकि पंचायत के लोगों ने उत्साह के साथ इस कार्यक्रम में हिस्सा लिया। सर्वेक्षण के बाद मोदी विश्वविद्यालय की छात्राओं ने नुकड़ नाटक 'जाग्रति' की भी प्रस्तुति दी। इसके जरिए गांव वालों को महिला शिक्षा के बारे में

जागृत किया गया, वहीं स्वास्थ्य संबंधी जानकारी से भी उन्हें रूबरू करवाया गया। विश्वविद्यालय की तरफ से इस कार्यक्रम के सीईओ एवं डीन डॉ. वी.के. जैन ने इसकी रूपरेखा तैयार की थी। नोडल ऑफिसर डा. पुनित कुमार ने संचालन किया। इसके अलावा डॉ. के एस पारीक, डा. विनोद मान, डा. ए. सेन्थिल सहित विष्वविद्यालय के अन्य पदाधिकारी भी मौजूद रहे।

सीमा सन्देश

Tue, 19 February 2019  
<https://www.readwhere.com/read/c/36873737>



2. A door-to-door survey was performed on **17 February 2019** as per the guidelines of UBA in order to interact with the people and identify their status on various parameters as well as grass root problems. The survey was performed by the students of various schools of the university (around 30 students) along with faculty and other staff members (10).



3. A door-to-door survey was performed on **03 March 2019** as per the guidelines of Unnat Bharat Abhiyan (UBA) in order to interact with the people and identify their status on various parameters as well as grass root problems. The survey was performed by the students of various schools of the university (around 30 students) along with faculty and other staff members (around 10). A Nukkad Natak (Street Play) was also performed by the students of Mody University of Science and Technology at Village Lalasi, Block: Lakshmanagarh, District Sikar, Rajasthan under Unnat Bharat

Abhiyan. The title of the play was "JAGRITI" and it was performed by 25 students at Choupal. The theme of the play was the dissemination of awareness about women education, health, sanitation, and superstition. With the help of play, information about some important government schemes was also disseminated.



## 13. SOFTWARE DEVELOPMENT CELL

P.K Bishnoi  
Coordinator  
Software Development Cell  
SET, Mody University

### Activities by Software Development Cell in Academic year 2018-19

- 1. Website ICONC3: 2019: International Conference on "Emerging Trend in Communication Control and Computing website was** developed and maintained by SDC cell. The link is [www.muconference.in](http://www.muconference.in). **The conference is to be held** during September 20-21, 2019 at Mody University of Science and Technology, Lakshmargarh, Sikar (Raj.), India. The conference was sponsored by IEEE, DST, IETE, CSI, and many multinational companies etc.
- 2. Auditorium e-Pass management and maintenance:** SDC managed well e-pass auditorium to play the movie whole the years. SHS has shown five movies in 2018-19 and sold and booked 2500 movies tickets. Complete backend technical support has been provided by SDC.
- 3. Complaint management Software management and maintenance:** Time to time SDC receiving the suggestion from engineering division of MEF and upgrading the software for it. SDC has managed the software successfully whole the year.
- 4. Faculty feedback and Online Attendance and Semester registration system etc:**  
  
For autumn and spring semester faculty feedback semester registration, and monthly online attendance conduction and web application management made successful by SDC for both semesters.
- 5.** SDC provided technical, software and hardware consultancy to all students of SET for PBL, Major and minor project of UG and PG students. In **Droid 2019** SDC displayed four hardware projects out of total eight projects.
- 6. ACM Chapter:** All the necessary formalities like required number of student members and faculty members, to initiate the chapter of ACM has been completed.
- 7. PHP MySQL Workshop on April 06, 2019**

Software Development Cell (SDC), SET- Mody University has conducted a One Day workshop on **PHP Application Development** on **06 /04/2019** (Saturday) which was sponsored by IET(Institution of Engineering and Technology). The workshop was started at 10.00 AM and end at 7.30 PM. The three resource persons came from Ayushi Microsystems Jaipur.

Total sixty students of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup>, year of B.Tech, BCA and MCA attended the workshop and they learnt about Basic PHP Programming, My SQL Database, PHP, HTML and My SQL Connectivity. At last Students were introduced with an e-Commerce project and its features. Resource persons explained the code of functionalities of the project; Students also do hands on practice of some web development framework.

Students were given necessary course material and a participation certificate in association with Ayushi Microsystems. The workshop was a great success.



## 8. IoT Workshop on April 19-20, 2019

Two Days workshop on **Internet of Things (IoT)** was conducted by SET, MUST Lakshmanagarh in association with IBM. IoT workshop was open for ACM and IEEE members. This workshop enables the learners to get hands on experience with the Internet of Things concepts including IoT platforms like, Arduino Microcontroller, Sensors, Relays and Node MCU etc. Total 30 students attended the workshop. IoT is home for creative problem-solvers who want to use data strategically to advance society.

These data promise to revolutionize healthcare, food, agriculture and all domains. Full cycle of IoT needs to be understood in order to design the projects in Smart City like applications in various business and social domains.

All students were provided the certificate for the workshop

### Learning Outcome

- Perform Sensor interface with IoT kits such as Node MCU and Arduino
- Data acquisition and processing for different sensors

**Students Comments:**

This was a very new thing for me. I completed it with full interest. Now, I am planning to do do my six month training in IoT.

*Ms Rashi Sharma MCA II Year Student*

I did it first time. I do not have any hardware background even than I understood easily and learnt a lot.

*Ms Navya B.Tech II Year Student*

ACM membership and Hardware workshop was very innovative and informative for me. I am very thankful to Dean SET to provide such an excellent educational environment for us at SET.

*Ms Ankita Jangir MCA II Year Student*

## 14. ROBOTICS LAB SETUP AT SET, MODY UNIVERSITY UNDER “E - YANTRA” INITIATIVE BY IIT BOMBAY

### ➤ EYANTRA – INTRODUCTION

E-Yantra Lab Setup Initiative (eLSI) of IIT Bombay supports infrastructure creation at colleges by providing a platform for inducting teachers in Project Based Learning or “Learning by doing”. Faculty members are trained in theory and applications of embedded systems and Robotics, in addition to providing guidance in setting up an Embedded Systems and Robotics lab at the college.

A 2 days Workshop on Robotics Lab Setup titled **E-Yantra by IIT Bombay** at “JIMS Engineering Technical Campus”, G.Noida was attended by team SET, Mody University on (2/11/18 - 3/11/18) comprising of 4 faculty members - Dr. Nitin Johri (Team Leader), Dr. Anil Saroliya, Dr. Gaurav Dhiman & Dr. Shubhashish Bhakta. Workshop started with a formal address by “Dr. Krishna Lala” (Sr. Project Manager, E-yantra, IIT Bombay) and their team followed with training Schedule, query session.

Faculty members had an exposure to Fire Bird V Robot & learnt various programming for motion control, velocity control, white line following etc. Outcome of the workshop involved technical knowhow of robotics basics – for lab setup, practical knowledge and technical skills required.



### ➤ Benefits for SET (Mody University)

IIT Bombay is providing assistance in setting up of Robotics and Automation lab at selected colleges, who qualify under Task Based Training (TBT) of E-Yantra.

E-Yantra supports the curriculum of computer science and electronics engineering. The robotics and automation field is an interdisciplinary area of engineering and is helpful in conduct of student projects and further research. Students from various engineering departments will

collaborate and work on different research projects thereby contributing towards knowledge addition and research advancement.

➤ **EYANTRA: Task Based Training**

A task based training (TBT) in online mode was successfully completed (attached progress report) by college team comprising of Dr. Nitin Johri, Dr. Anil Saroliya and Dr. Gaurav Dhiman. This task based training was in form of 6 tasks which comprised of Quiz and Experiments in each task based on embedded C programming on Firebird V Robot provided by Eyantra team of IIT Bombay.

These tasks needed to be completed before the assigned deadline and minimum score of 75% needed to be secured for proceeding towards final lab setup procedure. Only the colleges, who have successfully completed this TBT successfully, are allowed for next step towards setup of advanced Robotics lab at college with assistance by IIT Bombay.

Following modules were focused in Task Based Training (TBT) of E-Yantra:

- AVR micro-controller and programming environment.
- Simple motion control using I/O ports.
- Robot velocity control using pulse width modulation.
- Introduction to LCD Interfacing, Analog sensor interfacing, Interrupt programming.
- Robot programming for white line following.



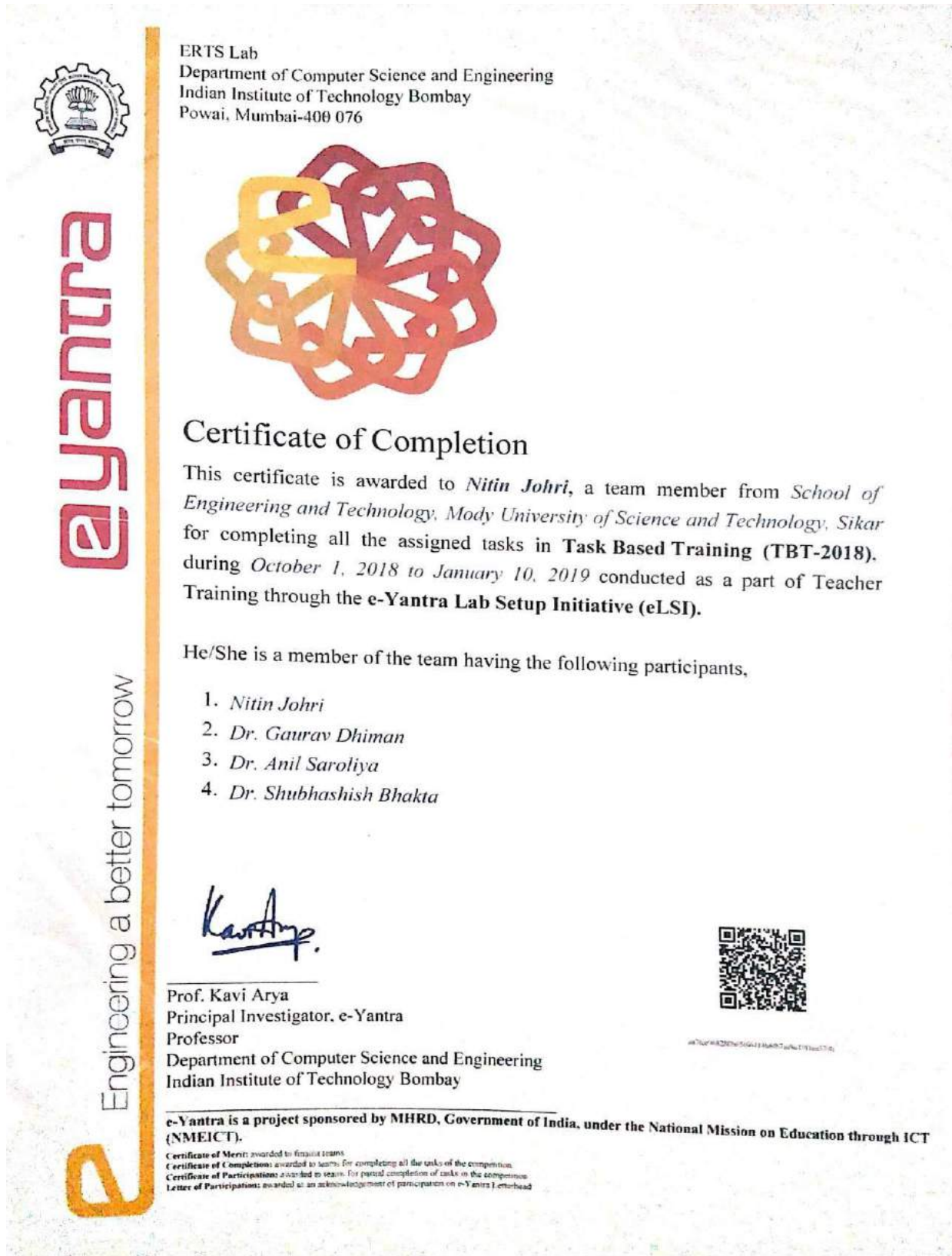
➤ Progress Report of Task Based Training - SET, Mody University Team

Change Password Team ID: TBT#733 nitinjohri.cet@modyuniversity.ac.in Logout

### Tasks Progress Report

Task #	Status	MCQ Marks (5)	Experiment Marks (20)	Bonus Marks (5)	Maximum Marks (30)	Remarks
Task 0 (NOC)	NOC Uploaded	--	--	--	--	--
Task 1	Completed	4	20		24	Good Job
Task 2	Completed	2	20		22	Good Job
Task 3	Completed	4	20	5	29	Good Job
Task 4	Completed	5	18		23	Exp 2: Counter is not retaining last display value.
Task 5	Completed	2	20		22	Good Job
Task 6	Completed	1	17		18	Reference ADC_Conversion() is used in both the experiments.

- Completion Certificates of Task Based Training (TBT) under Eyantra Lab setup initiative (eLSI):



➤ **Setting up of Robotics lab under “Eyantra Leb Setup Initiative (eLSI)**

The following equipment is procured from “M/S Nex Robotics” & is currently setup in “Electronics Workshop”, as a functional Robotics Lab at SET, Mody University.

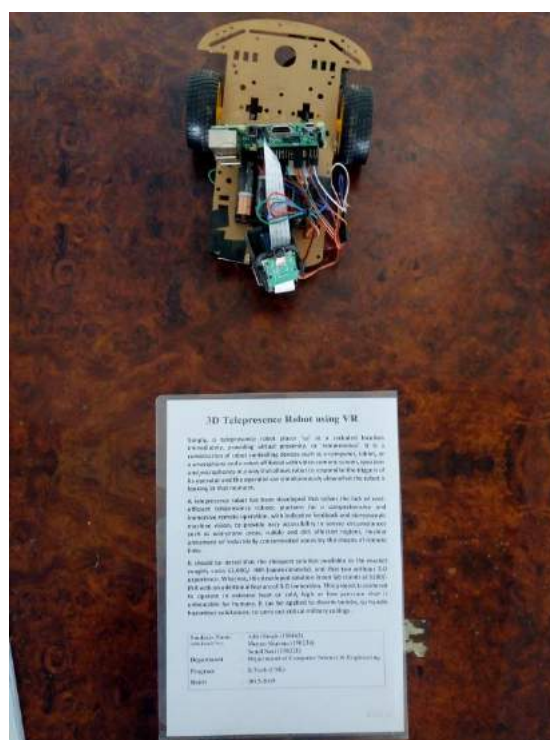
Sr. No.	Item Description	UOM	Qty.	Remarks
1	FireBird V 2560	Nex Robotics	4	A versatile robotics research platform
2	Spark V Robot	Nex Robotics	5	low cost robot designed for basic projects
3	Fire Bird V P89V51RD2 adapter card	Nex Robotics	4	Plug and Play accessory for Firebird V with 8051 architecture
4	Fire Bird V LPC2148 adapter card	Nex Robotics	4	Plug and Play accessory for Firebird V with ARM architecture
5	P89V51RD2 Development Board	Nex Robotics	2	8051 based Development board useful for curriculum subjects
6	Raspberry-Pi 3	Nex Robotics	1	Portable and affordable computing platform for programming and projects
7	Micro SD card (16 GB)	Nex Robotics	1	Essential accessory for Raspberry pi
8	USB Adapter 2A	Nex Robotics	1	Essential accessory for Raspberry pi
9	NRF24L01	Nex Robotics	2	Radio transceiver for projects requiring wireless communication
10	Zigbee Modules 100m range	Nex Robotics	6	Long range Radio transceiver for projects requiring wireless communication
11	Zigbee Modules Adapter	Nex Robotics	6	Essential accessory for Zigbee configuration
12	Metal-gear Servo Motors	Nex Robotics	10	Actuators for Robotic projects
13	Servo Motor Based Gripper kit for the Fire Bird V robot	Nex Robotics	2	Gripper arm for pick and place applications
14	Sharp GP2Y0A21YK0F infrared range sensor (10cm to 80cm)	Nex Robotics	5	Distance sensors immune to ambient light

## 15. INTERNET OF THINGS LABORATORY (Lab. No.LG32)

The Internet of Things extends The Internet connectivity beyond traditional devices like desktop and laptop computers, smartphones and tablets to a diverse range of devices and everyday things that utilize embedded technology to communicate and interact with the external environment, all via the Internet.

The Internet of Things Laboratory at SET Mody University is available for application and research in area of IoT, machine learning, embedded system and automation. It has been developed through the collaboration of IBM.

IoT laboratory has Microcontroller (ATmega328P), ESP 8266 different modules, GPS and GSM Modules, many different types of sensors (Gas, Temperature and humidity, etc.). Enough IoT kits are available in the laboratory so that thirty students can perform experiments in the laboratory in the group of 3-4 students. Arduino IDE, licensed under GNU General Public License is available on all 32 PCs in the laboratory. IoT is not only connecting devices to Internet, it is more than that. Sensors are connected to the Internet to save data on server and taking decision on that data. So laboratory has many different servers like http, ftp, telnet, application server and database server for professional IoT research, development and application.



## 16. MU ALUMNI MEET

### 27<sup>th</sup> April 2019 Sangeet Samrat (Ramtanu Pandey) Tansen Sabhagar, MUST Campus Lakshmangarh

The alumni meet is conducted every year in order to reconnect with the Alumnae and celebrate their success and various achievements. The Alumni Meet 2019 (3<sup>rd</sup> edition) organised by Mody University of Science & Technology, Lakshmangarh was conducted on Saturday, 27<sup>th</sup> April 2019.

Approx. 30 alumnae, with their family members, from various course and batches were present for this meet. The Alumnae started arriving in college by 9.00 a.m. and they were received and welcomed by the registration team. Some of the alumni left for their Department visit where they had studied and were shown the various developments that had taken place since then. Alumnae from old batches were highly impressed with the infrastructure facilities. After the welcome drink, photographs and high-tea, they were taken to Sangeet Samrat (Ramtanu Pandey) Tansen Sabhagar where the main event was organized.

The Alumni Meet started with Kulgeet of Mody University and seeking the blessings of almighty. The Masters of Ceremony invited the dignitaries to occupy the dais. To start the occasion on an auspicious note, the dignitaries Dr. Venu Gopala Rao, Director, Mr. V. K. Agarwal, Director Administration Dr. Vinod Purohit - Registrar, Dr. Anirban Sengupta - Dean, SMS preceded to the dais for the lighting of the lamp in front of the idol of Goddess Saraswati, accompanied by Mr. Sudhanshu K Sinha - GMCDC.

Mr. Sudhanshu K Sinha – GMCDC welcomed all the dignitaries and all the alumni for responding to the invitation from college and being present for the alumni meet in spite of their busy schedule. He then requested Dr. Venu Gopala Rao Director MU, to proceed with presenting the University's recent achievements highlighting the various milestones reached in the past year.

The address of Dr. Venu Gopala Rao, Director MU, was very inspiring and connecting with the Alumnae, during his speech, Dr. Rao gave an insight to them about the mission and vision of the University and its top Management and how we are working to achieve them. He elaborated very well about the traditional as well as the modern approach of the Institute and the goal to establish Mody University on Global Map as one of the top University. He also substantiated that, why one should promote and take admission at Mody University, by mentioning about its Infrastructure, Offerings, Ethical Values, good Faculty Resources, Rich Library, Ultramodern Laboratories, Career Options, etc. Alumni were very happy to learn about the vision of Top Management.

Group photograph was taken to cherish the memories of the moments forever. The same was also used to be shared in Alumni Meet Photo Frame as a souvenir towards the end of the programme.

The time had come to hear from the alumnae present. Alumnae addressed the gathering and extended their thanks to the management for inviting them and expressed their happiness in meeting in person, their batch mates on the occasion all of whom are well connected via whatsapp and social media. They were very happy to note few of the traditions of MUST which were first started during their time at MUST still continue. They expressed great bonding with the Mody University.

The Alumnae were treated with a number of fillers, like Standup Comedy, Dance, Singing, Quizzes and other performances by the current students, followed by a few interactive games.

The event was stimulating and enjoyable. The program came to an end by 2.30 PM. Souvenirs were presented to Alumni along with MUST T-Shirts. Simultaneously lunch was provided to all the alumnae and their family members. In general, the alumnae gave good feedback about the hospitality and the quality of food.



## 17. INTERNAL FACULTY DEVELOPMENT PROGRAM

Internal Faculty Development Program (IFDP) has originated from the belief of Dr. V. K. Jain, Dean, SET that the knowledge and experience of faculty members of SET should be shared with each other. The intent is to enhance the interdisciplinary knowledge of faculty members by sharing the information regarding the methodology adopted for effective teaching and learning. Faculty Development Programs (FDPs) have proven to be successful for improving teaching skills in higher education. It tackled why FDP is important, history of FDP in the past years, and questioned whether FDP produced any positive effect on students' academic achievement as well as the different methods to assess FDPs effectiveness.

The schedule of events in **IFDP** held in academic year 2018-19 is as follows:

S.No.	Name	Topic	Date
1.	Dr. Sudhir Y Kumar	Some aspects of Modeling Philosophy in Large Scale System	September 1 , 2018
2.	Dr. Nitin Johri	Fibre Reinforced Plastic (FRP) Composites	September 1 , 2018
3.	Dr. Rajeev Pourush	Understanding OFC	September 8, 2018
4.	Dr. Gaurav Dhiman	Introduction to MATLAB	September 8 ,
5.	Mr. Hitesh Jangir	Data Analytics	September 15,
6.	Dr. Sunita Kumari	Compact Substation for High Voltage	September 22,
7.	Ms. Suneetha Rikhari	Organic Electronics	September 29,
8.	Dr. Niranjan	Creating Blogs using Content Management System(Word press)	September 29, 2018
9.	Dr. Atul Kumar	Taguchi Optimization Technique	October 06,2018
10.	Dr. Purnima Sharma	Smart Antenna	October 06,2018
11.	Dr. Vikas Raina	10 Breakthrough Technologies 2018	October 13, 2018
12.	Mr. Manmohan Sharma	Scilab Open source alternative to Matlab	October 13,2018
13.	Dr. V.K. Jain	Leadership	October 27, 2018
14.	Mr. Mukul Kant Paliwal	Theory of Mechanism and Machines	November 17,2018
15.	Dr. Pinaki Ghosh	The God Particle	November 24,2018
16.	Mr. Vikrant Sharma	Introduction to the Analytic Hierarchy Process (AHP)	January 12,2019
17.	Mr. Somil Jain	Digital Transformation of India: Digital India	January 12,2019
18.	Dr. Sandeep Jaiswal	Cardio Pulmonary Resuscitation	February 02,2019

<b>19.</b>	Mr. Vishal Sharma	Latest E-Commerce Trends & Technologies: That will change the way of shopping	February 16, 2019
<b>20.</b>	Mr. Siddhanta Kumar Singh	Programming in Go Language	March 2, 2019
<b>21.</b>	Dr. Anil Saroliya	Advanced Searching Techniques	March 2, 2019
<b>22.</b>	Mr. Vinay Verma	Blockchain Technology	March 9, 2019
<b>23.</b>	Dr. Ranjana Thalore	Medical Myths and Facts	March 9, 2019
<b>24.</b>	Dr. Uma Kumari	Trending Technologies	March 30, 2019
<b>25.</b>	Mr. Ajay Kumar	Mobile Gender Gap	April 6, 2019
<b>26.</b>	Dr. Jeetu Sharma	The Ultimate Long Range Solution: LPWAN	April 20, 2019

## 18. OTHER EVENTS

### 18.1 Staff Development Program

Staff Development Program (SDP) has originated from the belief of Dr. V. K. Jain, Dean, SET that the knowledge and experience of Staff members of SET should be shared with each other. The intent is to enhance the interdisciplinary knowledge of staff members by sharing the knowledge for effective practicing.

The schedule of events in **SDP** held in academic year 2018-19 is as follows:

S.No.	Name	Topic	Date
1.	Dr. Manoj Khinchi	Introduction to Internet of Things (IoT)	July 28, 2018
2.	Mr. Suneel Kumar Jain	Knowledge Enhancing: Through Library Resources	August 25, 2018
3.	Mr. Madhav Gopal Sharma	Plastic: Boon or Curse	September 29, 2018
4.	Mr. SN Panchal	Renewable Energy in India: Status and Future Prospects	November 24, 2018
5.	Mr. Vikram Singh Saini	Air Pollution Causes Effects and Control Measures	March 30, 2019

### 18.2 Motivational Talk By Dr. V. K. Jain To First Year Students

To inspire and motivate the newcomers of SET, a motivational talk on “**Mantras to Achieve Success**” is given by Dr. V. K. Jain, Dean-SET. All the first year students enthusiastically attended the talk and interacted with Dr. V. K. Jain.

### 18.3 Mody University as Partner at Higher Education & Human Resource Conclave Rajasthan

Department of Higher and Technical Education, Government of Rajasthan, in association with Elets Technomedia Pvt. Ltd. has organized “Higher Education and Human Resource Conclave on 24<sup>th</sup>- 25<sup>th</sup> September, 2018 at Jaipur. Technology Innovations in Higher Education is the major theme of the event. Dr. Venu Gopala Rao, Director-Academics, Dr. V. K. Jain, Dean-SET and Dr. Atul Kumar, Dean-SOS has attended the event from Mody University of Science and Technology.

### 18.4 BOS Meeting Of Various Departments

BOS meeting of various departments of SET, Mody University of Science and Technology was held during 26<sup>th</sup> – 27<sup>th</sup> October, 2018 in the Conference Room of ABB building. All the meetings are chaired by Dr. V.K. Jain, Dean-SET. Various external academic experts and the members of the BOS discussed the curriculum structure for the 2018-2022 session proposed by various departments. The agendas put forward by the respective HOD's of different departments are discussed with the external academic experts. The approved agendas in BOS are forwarded to UGPC/PGRPC for approval.

## 18.5 PARICHAY-2018

'PARICHAY – 2018' was indeed a star-studded affair, with the fresher's batch of 2018 looking no less than celebrities contesting for the title of Miss Fresher's. However, the program wasn't just about the pageant - packed with breath-taking performances both by the seniors and the fresher's. It was a complete delight to witness as the evening rolled out. The contestants of the Miss Fresher's pageant had to go through three rounds, namely, the ramp walk, the talent hunt and the question answer round. Evidently, all the competitors were judged on their overall personality and capability to present themselves, showcase their talent, and prove themselves as beauties with brains. Overall it was a delightful evening with power packed performances by students from the whole University.

The ten clear winners with the pageant titles are

- Miss Fresher's : **Ms. Shambhavi- SLS**
- Miss Congeniality: **Ms. Manashi- SOS**
- Miss Iconic Dior: **Ms. Kritika Tyagi-SET**
- Miss Stiletto: **Ms. Tejasvi-SLS**
- Miss Show Stopper: **Ms. Rinku-SLS**
- Miss Rising Star: **Ms. Deepti-SOS**
- Miss Elegant: **Ms. Priti-SLS**
- Miss Diva: **Ms. Simran-SMS**
- Miss Prodigy: **Ms. Apoorva-SOS**
- Miss Stunning: **Ms. Kritika-SLA**





### 18.6 Mody University is now a Nodal Center for Virtual Lab Project, IIT-Delhi-an MHRD Govt. of India Initiative



An MHRD Govt of India Initiative

Mody University of Science and Technology, Lakshmanagarh is now **a Nodal Center for Virtual Lab Project, IIT Delhi**. The Virtual Labs Project facilitates remote access to laboratories in various disciplines of Science and Engineering. It is a Mission-Project, developed under the aegis of National Mission on Education through ICT (NMEICT), MHRD, Govt. of India.

Due to continuous advancement of technologies it is becoming very critical for every engineering college to arrange all sorts of laboratory resources and lab facilities for their students. Physical distances and the limited availability of resources often put restrictions on conducting experiments especially, when they involve sophisticated instruments. Virtual Labs have been designed to provide remote access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, postgraduate level as well as research scholars. Virtual Lab enables the user to perform experiments remotely as an on-demand service over the web. Virtual Lab does not require any additional infrastructural setup for conducting experiments at the user premises. One computer terminal with broadband Internet connectivity is all that is needed to perform the experiments remotely.

Following are the broad areas over which Virtual Lab project is focused:

- Electronics & Communications
- Computer Science & Engineering
- Electrical Engineering
- Mechanical Engineering
- Chemical Engineering
- Biotechnology and Biomedical Engineering
- Civil Engineering
- Physical Sciences
- Chemical Sciences

### 18.7 Diwali Celebration

Celebration of Diwali, the festival of lights, came alive at School of Engineering and Technology, Mody University of Science and Technology, Laxmangarh, on **2nd November, 2018** when the SET building wore a complete festive look. Started two years back by Dr. V. K. Jain, Dean, SET as an initiative to inculcate a cultural spirit among all, this was the third edition of the Annual Diwali Celebration. To add fervor to the evening, there was an impressive and electric line up of performances from student body, ranging from exquisite, classical dance to retro themed bollywood song relay. Special performances from faculty members worked as the perfect icing on the cake. Celebrating the colors and illuminating lights, Rangoli Competition and Deep Sajao Competition were organized that added the perfect setting to the festivity. Moreover, 2 best dressed attendees were also felicitated from each of the three categories-Best Dressed Student, Best Dressed Faculty (Male), Best Dressed Faculty (Female). After the trail of cultural events, a grand Laxmi Puja was performed, followed by high tea and distribution of savories.



### 18.8 ERICSSON CONVOCATION

A certificate distribution ceremony was conducted by Ericsson on **28th November, 2018** for the students who have successfully completed the ARAN course. ARAN is an Industry Elective Course introduced in the academic year 2017-18 for 3rd year ECE/EE students. The course was taught by Subject Matter Experts from Ericsson. To enlighten the students on basics of Telecommunication Engineering a work shop was conducted during 23-25 November, 2017. Around 38 students have participated in the workshop. The certificates to all the participants of this workshop were distributed on 28th November' 2018 by Ericsson.



### 18.9 CAREER UTSAV EVENT

CAREER UTSAV event was attended by Senior Officials, faculties and students of Mody University during **23-24th November** in Kota. Projects such as smart irrigation system using NxT and Raksha-Domestic pollution control system were demonstrated by four final year students. Various colleges across the country also participated in the event.



### 18.10 Expert Talk by - Dr. Shankar Goenka

Mody University of Science and Technology organized an expert talk by Dr. Shankar Goenka- Author, Coach and TEDx speaker on **27th November, 2018**. The session was highly interactive and helped everyone to understand oneself and analyze one's own in-built nature. He focused on how to overcome the shortcomings in life through Whole Brain Thinking. Dr. Shankar Goenka under the banner of WOW Factors India also spoke on the concepts which can help people to change their lives for a better future.



### 18.11 Founder's Day Celebrations – 2019

The thirtieth annual Founder's Day Celebrations of Mody University of Science and Technology, Lakshmangarh, is organized from **22<sup>nd</sup> to 26<sup>th</sup> January, 2019** as per tradition. During the event - various academic, cultural and sports activities are held where students of various schools of Mody University participated with full enthusiasm. As in the past, this year also had stalwarts from varied fields to grace the occasion with their benign sense.

The thirteenth Convocation of Mody University is held on 23<sup>rd</sup> January 2019. Shri Harvansh Narain Singh – Deputy Speaker, Rajya Sabha, was the Chief Guest during the event. More than 500 students were awarded degrees from under-graduation to doctoral levels in a variety of disciplines.

Kush and Anuradha Gupta – a musical duo entertained the audience in the Musical Evening on 23<sup>rd</sup> January 2019 by performing large varieties of music starting from Old Geets, Ghazals, Filmy Songs, Sufi, Qawaali, etc.





### 18.12 Guest Lecture By Mr. Akash Kumar- State Head, AXIS Bank

An interactive guest lecture was organized by the CDC department on **30th January 2019** at Sangeet Samrat Tansen Sabhagarh, Mody University. Mr. Akash Kumar, State Head - Axis Bank, was the invited speaker for the session. The lecture was focussed on the introduction of banking, Job opportunities in Banking sector, Sales and Smart investment policies. All the pre final year students of the SET attended the lecture. The dignitaries present in the session were Dr. Anirban Sengupta, Dean-SMS; Mr. Sudhanshu Sinha; Mr. Himanshu from CDC and Mr. Hitesh Jangir from SET.

### 18.13 Mody University Jointly Celebrated International Women's Day With ACCENTURE

MUST in association with management consultancy giant Accenture, India, has organised a one-day event to celebrate International Women's Day within University Campus at Lakshmanagarh, Rajasthan. This is the fourth year Accenture has visited Mody University to celebrate the International Women's Day in the campus. Ms. Mukta Mittal and Ms. Manisha Bhattacharya, Managing Directors of Accenture s addressed to the selected students of the batch passing out in the year 2019 and gave an insight of C2C transitions, i.e. Campus to Corporate and answered to their queries pertaining to the profile, organization, etc. Kirti Jijja of 3rd Year B. Tech. won the Photography Contest and was felicitated with Souvenir and Prize. Ms. Tanvi Agarwal of 3rd Year B. Tech. Won the Hack Diva (Coding Contest) at University Level, and was felicitated with Souvenir, Goodies and a Cash Prize of Rs. 10, 000/- .A Group Presentation and open forum was organized to answer the queries of the students of Pre-final and Final year. A Fun-Run (mini-marathon) of the students was conducted, which started from the Tansen (Ramtanu Pandey) Sabhagar and ended at the same point after going through 2nd and 3rd Street of MU campus. In between of the day, other Extracurricular events were organized, through which they distributed lot many goodies, like T-Shirts, Caps, Sippers, Pen Drives, Office Stationary Kits, items related to Mobile and Laptops, etc. in a big number. The Students of SET presented two stage performances, which were appreciated by the visitors.

Every year Accenture awards the best student achiever and the best women faculty achiever. This year two students- Ms. Aditi Singh and Ms. Harshita Bhambhani have been selected and awarded as the best student achievers. They were felicitated with Souvenir and Goodies. Dr. Uma Nirmal, SET Faculty is awarded as the best faculty achiever. The Star Faculty Achiever Dr. Uma Nirmal was felicitated with Souvenir, Goodies and a Plaque. The event was concluded with

a fun run where the students of the university participated enthusiastically and received a good number of goodies from the Accenture.



#### 18.14 JOHN DEERE Campus To Corporate (C2C) Program, 2019

John Deere visited Mody University campus on **March 16, 2019** to educate the students about Campus to Corporate Transition. The event started with a brief introduction of the John Deere by Ms. Poonam Khatwani, HR Lead Campus Recruitment, John Deere. The Students were asked to recreate their imagination on a chart sheet in the form of collage, related to the given situation. The second activity was focused on “change in attitude in whatever field you deal with”. The students were asked to fill a sheet of questionnaire mentioning their “Strengths, Weaknesses and Motivations” in a form of a short story. Handpicked students were called on the stage to narrate their stories. The motive was to “Listen and interact” how one could have changed their weakness to strength and how strength can turn out to be a reason for daily motivation. The students have received valuable inputs on the soft skills and the Sessions have helped them in getting the feel of the corporate world and the requirements therein.



### 18.15 BON VOYAGE-19

The Saturday of **April 27, 2019** was abuzz with Farewell Party of 2015-19 passing out batch of SET. The farewell, "Bon Voyage-19" begun with inviting the dignitaries on the dais for lighting of the lamp followed by Saraswati Vandna and Mody University Theme Song in the Swami Haridas Sabhagar. The Dean, SET, Dr. V. K. Jain, presented the welcome note to the passing out batch and also an awakening steer to the students for their next phase of the life. Then mementos were presented to the passing out students by Dean, SET Dr. V.K. Jain, HOD's of various departments and faculty members. With enthusiastic dance performances, melodious hymns and emotional poetry, the evening was well put up by juniors to bid farewell to their seniors. The cultural events correctly portrayed how the journey at Mody University has been nothing less than a roller coaster ride for the students. A delicious dinner for all the students of SET was arranged at Vinayak Resort after the Cultural function. A rocking environment enthralled each and every student making Bon Voyage-19 a memorable event.



### 18.16 Major Project Exhibition

Best Projects from the Major projects done by B. Tech. IV year students of SET were selected for Project Exhibition. To encourage and felicitate the students who have contributed their outstanding ideas in terms of the Major project, an event related to Best Project Presentation was held on May 16, 2019 at SET. A total of 10 teams comprising of 26 students were shortlisted for the exhibition. The selected teams demonstrated their hardware-based project work in front of the panel members. Dr. V. K. Jain, Dean-SET and Dr. Atul Kumar, Dean-SOS was present during the event. These projects were related to various interdisciplinary courses of engineering like Internet of Things (IoT), Biomedical Embedded System, Cloud Computing, Green Computing, Robotics, etc. The event was coordinated by Dr. Anil Saroliya, Associate Professor, CSE Department. The event was concluded with the certificate distribution to all the participants followed by a group photograph.



### 18.17 Mody University of Science and Technology Signed MOU with DSCI

Cyber Shikshaa project is launched for skilling women engineering graduates in the niche field of Cyber Security. It is a joint initiative of Microsoft & Data Security Council of India (DSCID) in association with ISEA of Ministry of Electronics & IT. As part of this program, Mody University of Science and Technology signed a MoU with DSCI. The primary objective of Project Cyber Shikshaa is to connect with underserved women from Tier 2 / Tier 3 cities and to align a career path in Cyber Security. The duration of the program is 4 months.

**Eligibility Criteria:**

1. Exclusive for Women
2. Engineering Graduates

- 3. Age Bracket -21 to 26 Years Old
- 4. Family Income less than 5 lacs per

### 18.18 International Yoga Day Celebrations at Mody University

From enhanced attention and awareness to greater focus and concentration; relief from stress to attainment of perfect equilibrium and harmony, the benefits of Yog are wide and diverse. Mody University of Science and Technology celebrated 5th International Day of Yoga (IDY) at the Hockey Ground from 6:00 am to 7:00 am on Friday, 21 June, 2019. The faculty and staff of Mody University of Science and Technology and the faculty of Mody School actively participated in the event.



### 18.19 List of Visitors to SET

S.No	Name of Expert	Affiliation
1.	Prof. Vinod Sharma	Professor, Department of CS & IT, University of Jammu, Jammu
2.	Prof. D. S. Patil	Visiting Professor, Department of Metallurgical Engineering, IIT Bombay.
3.	Prof. Mahesh Chandra	Professor and DSW, BIT, Mesra, Ranchi
4.	Prof. Asheesh K Singh	Professor, Dept. of EE, MNNIT, Allahabad
5.	Dr. Dibyendu Ghosal	Associate Professor and Head of Electronics and Instrumentation Engg. Department, NIT Agartala
6.	Prof. Prasenjit Sen	Professor, School of Physical Science, JNU, New Delhi
7.	Prof. M.N Hoda	Director, Bharti Vidyapeeth Institute of Computer Application and Management, New Delhi
8.	Dr. Bharat Singh Rajpurohit	Associate Professor, School of Computing and Electrical Engineering, IIT Mandi
9.	Dr. Ghanshyam Singh	Professor, Dept. of Electronics and Communication, MNIT, Jaipur
10.	Prof. P.K.Banerjee	Former Professor, Jadavpur University, Kolkata, West Bengal
11.	Dr. Ashwani Kumar	Professor, Dept. of EE, NIT, Kurukshetra, Haryana
12.	Prof. Dharmendra Singh	Professor, Dept. of Electronics and Communication Engg, IIT Roorkee
13.	Prof. Sanatan Chattopadhyay	Associate Professor, Department of Electronic Science, University of Calcutta , Kolkata
14.	Shri. B.M. Bhamu	OSD, Energy Dept., Govt. of Rajasthan
15.	Prof. H.D. Charan	Vice Chancellor, Bikaner Technical University, Bikaner
16.	Prof. S. L. Soni	Director, NIT, Uttarakhad
17.	Prof. K. S. Sangwan	Professor, BITS Pilani
18.	Prof. Manoj Soni	Associate Professor, BITS Pilani
19.	Prof. Rohit Bhakar	Associate Professor, MNIT Jaipur
20.	Dr. Yogesh Kumar Meena	Associate Professor, Department of Computer Science and Engineering, MNIT, Jaipur
21.	Dr. Preeti Gupta	Associate Professor, Department of Computer Science and Engineering, Amity University, Jaipur
22.	Prof. Lava Bhargava	Professor, Dept. of Electronics and Communication, MNIT, Jaipur
23.	Dr. Jamil Akhtar	CEERI, Pilani
24.	Dr. Amit Sanghi	Professor, MEC-Bikaner
25.	Dr. Shankar Goenka	Author, Coach and TEDx

26.	Mr. Nand Kumar Patil	(R & D Engineer, SKRIP, Mumbai
27.	Mr. Paresh Modh	CEO- Pamtrons
28.	Mr. Akash Kumar	State Head - Axis Bank
29.	Ms. Mukta Mittal	Managing Director , Accenture
30.	Ms. Manisha Bhattacharya	Managing Director , Accenture
31.	Ms. Poonam Khatwani	HR Lead Campus Recruitment, John Deere
32.	Mr. Nitesh Bhatia	Cyber Security Analyst, i3indya Technologies
33.	Mr. Ravi kant	Embedded Engineer, i3indya Technologies
34.	Mr. Rishabh Singh	Embedded Engineer, i3indya Technologies
35.	Mr. Prateek Sharma	V-Lab Workshop In-charge and Mentors, IIT Delhi
36.	Mr. Ashish Mudgil	V-Lab Workshop In-charge and Mentors, IIT Delhi
37.	Mr. Manish Vashist	IBM Design Director
38.	Mr. Saurabh Bharadwaj	Techinest Jaipur
39.	Mr. Ashish Sharma	Techinest Jaipur
40.	Mr. Rohit Pahwa	CETPA Noida
41.	Mr. Sandeep Chaudhry	CETPA Noida
42.	Ms. Ayushi	Microsystems Jaipur
43.	Prof. Suneet Gupta	Bennett University, Greater Noida
44.	Mr. Deepak Boora	Coordinator, Skill Development, Data Security Council of India, NASSCOM, Imitative, Noida
45.	Mr. Rajendra Singh	The Water man of India, Chairman, NGO-Tarun Bharat Sangh (TBS)
46.	Mr. Shiv Khera	Author, Motivational Speaker
47.	Mr. Naresh Kumar Thakral	District Collector, Sikar
48.	Mr. Abhinav Bindra	Retired Professional shooter, World and Olympic champion, Gold medalist, Padma Bhushan, Rajeev Gandhi Khel Ratna Awardee
49.	Shri shri Ravi Shankar	Spiritual leader, Founder of art of living
50.	Shri Harvansh Narain Singh	Deputy Speaker, Rajya Sabha
51.	Lieutenant General Kuldip Singh Brar	Param Vishisht Seva Medal, Ati Vishisht Seva Medal Vir Chakra, Commanded of Operation Blue star
52.	Dr. Kumar Vishwas	Poet, Author, Performer, Motivational Speaker
53.	Richa Anirudh	Prime Time News Anchor
54.	Ms. Priyadarshini Chatterjee	Former Femina Miss India World-2016
55.	Pallavi fouzdar	Biker and Nari Shakti Awardee

56.	Dr. Kaynat kazi	Author and Travel Photographer
57.	Rajkumari devi	Kishan Chichi, Entrepreneur
58.	Rashmi Bano Qureshi	Int Fashion Model and Anti-Acid Activist
59.	Mr. Ankit Bohra	Owner, Tapri Jaipur



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## **Mody University of Science and Technology**

University town of Lakshmangarh (Sikar), Rajasthan - 332311, India

**Contact:** +91-9119195001 / 2 / 7 / 11 | **Toll Free:** 1800 102 4000

E-mail: [dean.cet@modyuniversity.ac.in](mailto:dean.cet@modyuniversity.ac.in)

[www.modyuniversity.ac.in](http://www.modyuniversity.ac.in)