

# ANNUAL REPORT 2016-2017



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## Preface



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2016-17 was a pivotal year in the history of the College of Engineering and Technology (CET), Mody University of Science & Technology (MUST). The University has fulfilled the vision of attracting faculty and students of the highest quality to CET, MUST and has continued to provide them with state-of-the-art facilities and research infrastructure.

2016-17 saw important developments in academic and research activities. The number of academic events including Workshops, Seminars, Lectures, and Symposia are doubled. There was also a steady rise in the number of publications and scientific presentations, a trend that will undoubtedly accelerate. Mentorship, Project Based Learning, Teaching-Learning Diary are introduced from the last academic session. College started publishing International Journal, News Letter.

It is not possible to list all the developments and improvements that took place last year, but I would like to pay tribute to the staff of CET who, in every sector, whether Research, Administration, Facility Management, etc., have shown great commitment and competence. Last academic year was a key year in the evolution of our University and the quality of our staff has been the foundation on which we have built success.

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The major achievements of student as well as the faculty member's contribution make the College of Engineering and Technology (CET), proud.

**Promotion and Appointments:**

- Prof. Suresh Advani, former Dean of COBMEC, promoted as the President of Mody University.
- Dr. V. K. Jain has joined at College of Engineering and Technology, as Professor and Dean in the month of July, 2016.

**Introduction of New Programmes:**

**The following Programs are being introduced -**

- B. Tech in Electronics & Communication Engineering with specialization in
  - i) Telecommunication Systems and Networks
  - ii) VLSI and Embedded System
  - iii) Robotics
- B. Tech in Electrical Engineering with specialization in
  - i) Renewable Energy
  - ii) Control and Automation
  - iii) Power Electronics, Drives and Robotics
- B. Tech in Mechanical Engineering with specialization in
  - i) Thermal System Engineering
  - ii) CAD/CAM
  - iii) Product Design and Development
- B. Tech in Nuclear Science and Technology
- B. Tech in Computer Science & Engineering in association with IBM with specialization in
  - i) Internet of Things
  - ii) Information Security
  - iii) Cloud Computing
- M. Tech in Renewable Energy

## 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 Lakshmangarh. 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 instils 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 an institute of professional learning comparable to the best in the world, with special commitment to women education and cultural heritage of India.

### ➤ Mission

Committed to excellence, the institute seeks to impart knowledge and develop skills in women to become professionals, well versed in modern technology and management practices while imbining 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 Lakshmangarh, 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 six colleges in the University, namely the College of Arts, Science and Humanities (CASH), the College of Architecture and Design (CAD), the College of Engineering and Technology (CET), the College of Fashion Design and Merchandising (CFDM), the College of Law and Governance (CLG) and the College of Business Management, Economics and Commerce (COBMEC). 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. Colleges 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 (1:12) 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 kind 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. DEPARTMENTAL ACTIVITIES

### 2.1 Department of Computer Science and Engineering

The department of Computer Science & Engineering 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.

### 2.1.1 Workshops

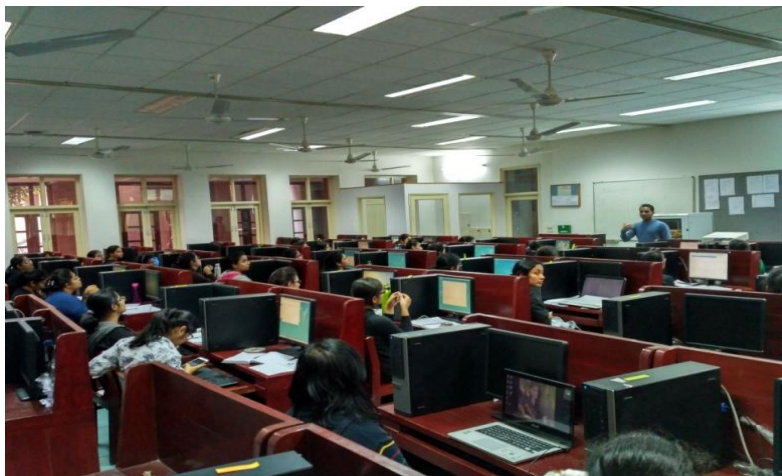
1. Department of Computer Science and Engineering, College of Engineering and Technology (CET) had organized a one day workshop on the occasion of Engineers Day, September 15, 2016 on **Mobile Application Development**. The aim of the workshop was to introduce android application platform to the students. Students were given hands on training on the platform. They learn the steps for installing the android studio Integrated Development Environment IDE and also to execute and incorporate emulator with the IDE. Forty students participated and resulted in development of some sample apps.



2. A three day **C Language Workshop** was organized by CSI student chapter UTKARSH, Mody University of Science and Technology for the students of 1<sup>st</sup> year from September 29, 2016 to October 1, 2016. The main aim of the workshop was to focus on the basics of C Language and programming skills to enhance further and higher level of coding of the students. 36 students attended the Workshop.



3. Student Chapter of the Computer Society of India, Mody University organised a 4-days workshop on '**Cloud Computing**' under the guidance of Dr. Sunil Kumar from February 4-7, 2017 scheduled between 9:00 am- 5:30 pm. Mr. Ashutoshh Singh (Red Hat Certified Trainer) was the main resource person for hands on training. 52 students from B. Tech. and M. Tech. participated in the workshop. The workshop was aimed at making the participants familiar with the Cloud Computing Technology and Linux.



Some of the major contents covered in the workshop were:

- High level introduction of Linux and its internal architecture
- Linux device management
- BASH shell scripting
- Hard disk partition management
- Introduction to cloud and its components

- High level introduction of SAAS and IAAS  
The participants were also provided with the handouts and a CD for future references.

### 2.1.2 Conferences/Seminars /Guest Lecture

1. An Expert Lecture was organized on **Cyber Crime** on September 16, 2016 by Prof. Milind Agarwal (President – Cyber Crime Awareness Society).
2. CSI chapter of Mody University organized a seminar on **Ethical Hacking** by Mr. Pankaj Parashar of Appin technology lab on April 12, 2017. Appin technology lab is an ISO certified company established in 2004 by Mr. Rajat Khare, IIT alumni. By seeing the strength of the students it could be easily concluded that students were quiet enthusiastic about the seminar. Seminar was started by Ms. Sharda Chaudhary. She is an alumna of Mody university of B. Tech CSE-2011 batch, right now she is working in DOITC department as an assistant director and also as a project mentor in Appin Technology lab. She welcomed all students and gave brief introduction of appin technology lab. After her, lecture was given by Mr. Pankaj Parashar on ethical hacking. He works in Pearson Pvt. Ltd and has done many certifications like CCNA, RHCA, CEH, etc.

### 2.1.3 Other Activities

1. The CSI student branch was formally inaugurated on March 8, 2016. The inaugural ceremony was attended by senior faculty and students. Prof. Anil Kumar, Head CSE department and Dr. Sunil Kumar, Student Branch Coordinator addressed the gathering and emphasized on conducting events regularly. Membership cards were given away to the students. A poster competition was also held to mark the CSI day celebration and cash prize was distributed to the winner.
2. **IEEE Xtreme 24-hour Programming Competition** was held from October 22, 2016 to October 23, 2016. IEEE Xtreme is a global challenge in which teams of IEEE Student members, supported by an IEEE Student Branch and advised and proctored by an IEEE member; compete against each other to solve a set of programming problems during a 24-hour time span. The competition is inaugurated by Dr. V. K. Jain, Dean (CET) and Dr. Anil Kumar, HOD (CSE). The competition has been organized in CAD Lab (ABB), ground floor. Four teams have participated. Two Proctor were there to supervise and to provide the necessary support to the participating team. All active participants had received a digital certificate and gift from IEEE.
3. The students of CSE Department participated actively and won various prizes in the National Inter College Techno-Cultural Festival, 'Cordinazo'17, from March 31, 2017 to April 2, 2017 at CET Mody University. This festival is an ecstatic blend of Technology and Culture. The events in Cordinazo'17 are designed by keeping in mind the needs of the students.



4. During this year, total 3 faculty members and one lab technician were awarded or completed their PhD degree, 1 faculty member has submitted his PhD thesis.
5. Periodically the meetings were organized to update and revise the curriculum of B.Tech. (CSE) 3rd and 4th year, B.Tech. (CSE) with the specialization in BigData and IOT.
6. **Project Exhibition** for the students of BDA-IOT (CSE), 1st year, organized on December 1, 2016 in Room No. ABB 01 from 4:40 PM – 6:30PM. Total 16 groups have participated. This competition was to motivate the students for project learning. Each group was given 5 minutes for their project presentation. First, Second and Third place holders were awarded with prizes of spiral books and pens.
7. CSE department of CET had submitted Preliminary Self Study Report & Transcript and Request for Review(RFE) for ABET accreditation of B.Tech. (CSE) for the cycle 2017-18 under the commissions EAC and CAC.
8. Total 10 students of CSE department had gone for internship in foreign universities.

## 2.2 Department of Electronics & Communication Engineering

The Department of Electronics and Communication Engineering Department (ECE) was established in the year 1998 to impart quality 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, a five year integrated MBA Tech. program, and a five year integrated B.Tech. + M.Tech. programs. In addition to these, 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. The Department offers wide spectrum of courses. The prominent among them being Analog Electronics, Digital Electronics, Electronic Devices and Circuits, Integrated Circuits and Applications, Signals and Systems, Electronic Instrumentation, Microprocessors and Microcontrollers, Embedded System, Electromagnetic Field Theory, Communication Systems, Microwave Engineering, Antenna Wave and Propagation, Power Electronics, Optoelectronic Devices and Materials, Optical Fiber Communication, Digital Signal Processing, Telecommunication Switching, VLSI Design, Cellular and Satellite Communication, Radar Engineering, VHDL Design, Microwave and Millimeterwave Integrated Circuits etc, apart from the basic mandatory courses on Mathematics, Physics, Chemistry and Management courses. The students are also encouraged to opt for interdisciplinary electives courses. Our Laboratories are regularly updated in terms of modern equipments and softwares.

As Mody University solely provides education exclusively to woman candidates, the Department of Electronics and Communication Engineering is focused in providing all types of facilities and infrastructure needed to empower the women candidates.

### ➤ Objectives

The Program Educational Objectives developed by the department are consistent with broad understanding of basic Electronics and Communication concepts along with contemporary skills required by industry and provide Foundation courses that form a basis for professional competence and required knowledge as stated below -

- 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.

The Department is one of the most sought after departments by the students in the country and attracts top 2% of students qualifying in the IIT-JEE Mains exams. The students of the department have been consistently obtaining top ranks in national competitive examinations such as GATE, CES, GRE and CAT. Our students pursue post graduate and doctoral studies not only in the top-rated Indian Universities but in the International Universities in Europe and America.

The major goal of the Department is to produce highly knowledgeable, competent and resourceful young women engineers and entrepreneurs who can perform well in a wide variety of job profiles. To achieve this, curriculum provides a sound grounding in both the analytic and technological aspects of Electronics and Communication Engineering. It also provides ample opportunities to students to work on mini-projects, develop communication skills, explore internship opportunities in industries and world-class universities and take part in national and international design contests.

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.

### **2.2.1 EC Workshop**

Beacon every year organises a two-day EC workshop for first year students. In this workshop, BEACON members ensure that they can provide maximum knowledge about the basic electronics to the first year both in practical and in theory. It was held on 13 and 14 of September 2016 from 4:30 pm to 7:30 pm in the Electronics Laboratory.

Topics covered in this workshop are as follow:

- Basic introduction to electronics and its components
- VI characteristics of junction diode and zener diode
- Half wave rectifier with and without capacitor.
- Full wave rectifier with and without capacitor.
- Clipper and Clamper.
- Soldering and De-Soldering.

#### **DAY 1:**

On September 13, the above topics were covered theoretically. The basic knowledge of every topic was provided thoroughly. After the topics were covered, the doubt session was held where the students asked and cleared their respective doubts.

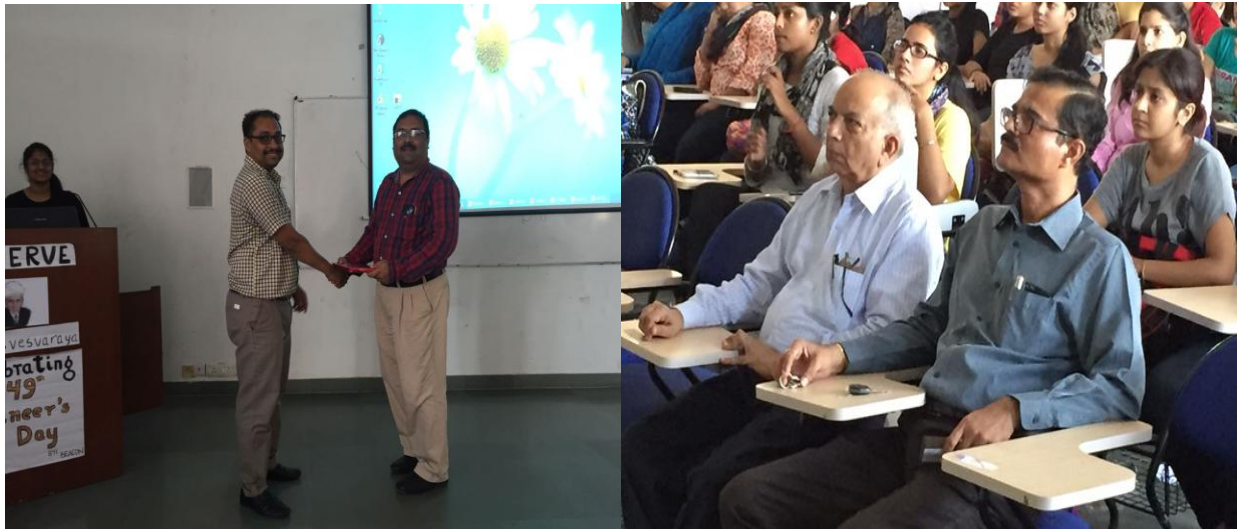
**DAY 2:**

On September 14, students were taught the practical use and way of the above mentioned topics. Starting from basic knowledge of resistors to breadboards and then to making of simple circuits to comparatively complicated circuits were taught. After circuit making they were taught soldering and de-soldering.

**2.2.2 Engineer's Day Celebration (INNERVE)**

Every year the birthday of Dr. Mokshagundam Visvesvaraya, i.e. September 15, is observed as Indian Engineer's Day. On this auspicious occasion, the members of BEACON, organised their annual event, INNERVE (Innovation in our Nerves) from 10:30 am to 1:45 pm in room no. ABB-32. The event was attended by engineering students and faculties from all branches. The event constituted of technical presentations and quizzes, apart from other non-technical games like tongue twister, riddles, reverse spell bee, etc.

The event began with introduction of INNERVE by Ms. Nikita Jain and Ms. Nishita Parmar, ECE 3<sup>rd</sup> year. This was followed by a brief introduction to Engineers day and biography of M. Visvesvaraya by our mentor, Dr Rajeev Pourush. We then had a short message from HOD of Electronics and Communication Engineering, Prof. P. K. Ghosh and a presentation by Prof. N. K. Joshi on the topic "Nuclear Energy and Sustainable Development". Coordinator – Student affairs Mr. N. S. Baruaole also gave us a short message about the life of Dr M. Visvesvaraya. Our mentor then presented Prof. Joshi, Prof. P. K. Ghosh and N. S. Baroule with a token of appreciation. We also had presentations by BEACON members. Ms. Neha Agarwal, ECE 3<sup>rd</sup> year, gave a presentation on **Cyborg**, followed by a presentation by Ms. Rama Choudhary, ECE 3<sup>rd</sup> year, on Chatbot. Ms. Nishita Singh Parmar, ECE 3<sup>rd</sup> year, explained the use of technology in armed forces through a short presentation. Ms. Himangi Gopal of ECE 2<sup>nd</sup> year spoke on 'augmented reality'. This was succeeded by technical quiz, riddles, reverse spell bee, tongue twister in which the students participated actively. The winners of various games were rewarded by our mentor and team BEACON.



### 2.2.3 VISION BOTIX Workshop Organized By ROBOTA & ECE Department

A four-day Workshop on **Vision Botix** was organised from September 25-28, 2016 by ECE Dept. & ROBOTA, the robotics club of College of Engineering and Technology, Mody University.



In Vision Botix system is a robot fitted with one or more cameras used as sensors to provide a secondary feedback signal to the robot controller to more accurately move to a variable target position. It is used in Material handling, Automated Assembly, Agricultural Application Life Sciences and more. Great amount of zeal and enthusiasm was seen in the students. There was an active participation of 97 students in the workshop all from different branches of engineering. Day 1 (September 25, 2016) session the following topics were covered Robotics, Introduction to

sixth sense technology and Vision Botix, Introduction to microcontrollers with description about Atmega8, Memory organization in microcontrollers, Input & Output peripherals in Microcontrollers, Registers in Microcontrollers and about Programming of Microcontrollers. On Day 2 (September 26, 2016), participants were taught about the practical implementation of the theory. They continued by Interfacing of LEDs with the microcontroller.



On Day 3 (September 27, 2016), introduction of MATLAB was given. It was followed by significance of MATLAB (windows Editor, workspace, Command History and Command Window Basics of MATLAB Programming), Use of primary commands in MATLAB, Introduction to Arrays, Matrices Formation of a Color Pixel from a Matrix, Introduction to file Types Understanding Looping and Conditional Statements in program, Introduction to Image Processing Introduction to images, pixels and frames Types of images and their conversion. Students practically implemented acquisition and displaying different format images. The students learned about Properties of a Camera, Camera Resolution, Camera Formats, Image color format by default camera. The students also implemented Getting a continuous video streaming from the camera, Capturing Frames from the Live streaming, Converting type of Captured frames into other types, Calculating a number of Black and White Pixels in the Captured frame, Gesture control Web Browsing, Gesture control mp3 player. On the last day of the workshop Interfacing image processing (MATLAB) with microcontroller and Blinking pattern of LEDs by various color gestures was discussed and students made Gesture control Robots. This session was followed by query solving session and certificate distribution.

### 2.2.4 QIP Sponsored Short Term Course Attended By Dr. Rajeev Pourush

This QIP sponsored short term course on “Design of Microwave Antennas and Passive Components” was organized by Dept. of ECE, Indian Institute of Technology (IITBHU), Varanasi during the period from December 19-24, 2016. This course attempts to refresh the fundamentals as well as recent developments in the field of microwave antennas and passive components. Special emphasis was given on the design of planar microwave antennas. There were special lectures delivered by the experts of DRDO, Bangalore on recent advances in this field which include Frequency Selective Surfaces for Aerospace Applications: Radome, RAS and Antennas. The demonstration of design and simulation of micro strip rectangular patch antenna and waveguide horn antenna using software High Frequency Structure Simulator (HFSS) was given in the afternoon sessions.



### 2.2.5 Eminent Talk held on 23<sup>rd</sup> February 2017

On 23<sup>rd</sup> February 2017, BEACON organized an eminent talk session by **Prof. A.B Chattopadhyay**. The topic of this session was ‘**Electromagnetic Theory**’. He explained the basic principles of EM theory. He made audience understand the need of usage of Laplace Transformation and Fourier series and their applications. He threw some light on EM theory that covered basic principles of electro magnetism, electrostatics, magnetic fields of steady current,

motional emf and electromagnetic induction. At the end, Prof. was given a sincere vote of thanks by Head-ECE for coming to our institute and was given a deep sense of appreciation for inculcating his knowledge and intense research on this topic. In his interview, which was taken by the BEACON members, he told us how his research interest was grown out of a single article he read once during his under graduation. He said "I have done a lot of research in EM and its effects on day-to-day as well as high level applications. It is what excites me. This field is very vast and therefore I never stop learning. I daily learn something new while researching in this field. I want my research to be useful in the field of science and cut down the cost of technologies in EM field if it is possible"



## 2.3 Department of Electrical Engineering

The department of Electrical Engineering was established in the year 2009 with a sanctioned intake of 60.

Electrical power is an integral part of modern life. It is impossible to visualize the world without electricity. There has been rapid advancement in generation, transmission and distribution technologies, opening up new frontiers. The degree of sophistication of controlled technology has reached a stage where an intricate knowledge of programming, hardware and mathematical analysis is mandatory. This makes the field very attractive and interesting.

Subjects on Network theory, Control systems, protection and power systems give the basic exposure to electrical fundamentals, whereas, analogue and digital circuits, microprocessors, Digital Signal Processing, advanced programming languages makes an attractive blend of electrical and electronics, thereby, creating excellent placement opportunities in every sector. The students of this branch are placed in electrical and electronics related organizations and software companies.

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.

The broad areas of research of the department are:

1. Control System
2. Electrical Machines
3. Soft Computing
4. Renewable Energy & Smart Grid

### 2.3.1 Departmental Activities

The activities/events organized by Electrical Engineering Department during July,2016 – July,2017 are as under:

- EE Department off CET had organized One day Educational Industrial Visit to **Wind World India Limited**, Sikar on September 15, 2016. 37 students participated in the trip and they were accompanied by 3 faculty members of the department.
- An event **BONNARRO** was organized on September 29, 2016 through society, SPARK for the students of CET in which around 60 students participated and competed healthily.
- Ms. Disha Darshan along with her team members represented Mody University in Football Tournament organized by BITS, Pilani on September 19, 2016 and brought laurels for the university.
- Ms. Saroj Poonia participated in sports festival of IIT BHU, SPARDHA which brought laurels to University by winning many championship trophies.

- Ms. Disha Darshan attended the Techno-Cultural festival, OASIS-2016 organized by BITS, Pilani during October 19-23,2016.
- Ms. Rachita Chawla worked as USG Delegate Affairs in EDMUNDS MODEL UNITED NATIONS 2016 held during November 12-13,2016 at EDMUNDS School, Malviya Nagar, Jaipur.
- The students of EE department attended a guest lecture delivered by expert Prof. A. Kulatunga, Purdue University, USA on December 7, 2016.
- Ms. Rachita Chawla won Verbal Mention Award at All Saints Ajmer International Model United Nations which was held during January 21-22,2017 in All Saints School Ajmer.
- Ms. Himadri Pareek and Ms. Disha Darshan with their team participated in Drama Stage-Play representing University at LNMIIT, Jaipur during January 28-29, 2017 and their Play was awarded for Best Directed Play.
- The students of EE department took active participation in cultural events organized in MU.
- The students and faculty members of EE department took active role in organizing and participation in the International Conference on Recent Trends in Renewable Energy and Smart Grid (ICRRESG 2017) during February 24-25,2017 and published manuscripts as many as around 40 conference papers.
- The students and faculty members of EE department took active participation in published a book, Renewable Energy and Smart Grid technology by Bloomsbury International in the form of around 21 book chapters.
- The students also took lead in participation poster making competition, Model making competition, Project competition etc during ICRRESG 2017.
- Ms. Disha Darshan and Ms. Himadri Pareek along with her team members represented Mody University in Football Tournament organized by GLA University, Mathura during March 24-26,2017 and brought laurels for the university by winning gold.
- The students of EE department attended national seminar, NSNST-2017 on March 23, 2017.
- Ms. Rachita Chawla won SPECIAL MENTION AWARD in Manipal University Model United Nations as a delegate of Germany held during April 15-16,2017 in Manipal University Jaipur.
- Ms. Rachita Chawla is currently working as ASG DELEGATE Affairs in Jaipur International Model United Nations which is to be held during June 15-27,2017.

## 2.4 Department of Mechanical Engineering

Mechanical Engineering is one of the oldest engineering which started since men innovated tools for hunting .As people became more and more civilized and science made new and new innovations , the scope and contents of mechanical engineering went on changing. With the passage of time new disciplines in engineering came up. But mechanical engineering still holds the central place of all engineering.Mechanical engineering uses the knowledge of Physics, chemistry, mathematics, biological sciences to develop new mechanisms and machines for benefit of mankind. Now-a-days, mechanical engineering does not mean working with sledge hammer and chisels to shape a piece of material. With large scale automation and breakthrough in computer science all processing can be done by automated machines with computer interface and a mechanical engineer will be required to design, develop, and coordinate various activities and operations, sitting before a computer.As the scope and contents of mechanical engineering have been changing rapidly the gender differences in choosing a particular engineering is fading. A large number of women have opted for mechanical engineering in India and abroad. This can be verified by Google search in which gallery of women in mechanical engineering is available. Now-a-days, it is the brain, and not muscle strength which is important to choose any engineering discipline.Mechanical engineering is a blend of analysis and synthesis required for any creative work like designing and developing machines to perform complicated task. So any person, be He or She, who is analytically sound and has well logical reasoning will find mechanical engineering as the most satisfying profession. Besides, now-a-days, there have been more and more interdisciplinary courses at higher levels, and so there should not be any gender discrimination for pursuing any discipline.

### ➤ 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 needs of the region.

#### 2.4.1 Departmental Activities

- Mr. Vikrant Sharma and Mr. Atul Kumar Won the first prize of **INR 1 lac** for the book '**CNC Machines and Automation**' from AICTE in the all India level competition under the scheme named "TAKNIKI PATHYAPUSTAK PURASKAR YOJANA-2014".





- Students of Mechanical Engineering went to **Mahindra Tractors Farm Division** for industrial visit, where they saw the assembling of Mahindra Bhomiputra Tractor.
- Mr. Atul Kumar organizes a Model Competition in the International Conference on Recent Trends in Renewable Energy and Smart Grid organized by CET, Mody University on February 24-25, 2017.
- Mr. Vikrant Sharma was Judge during Model competition in the International Conference on Recent Trends in Renewable Energy and Smart Grid organized by CET, Mody University on February 24-25, 2017.
- Dr. Pikesh Bansal was Coordinator of Cordinazo'17.
- Mr. N S Baruaole, Mr. Vikrant Sharma, Mr. Atul kumar and Mr. Mukesh Kumar submitted a book on **“Engineering Mechanics :Statics”** for publication to Narosa Publication House, New Delhi.
- Two final year mechanical engineering students namely Ms. Harsimran Kaur and Ms. Kiran Malvi got selected in John Deere visited on October 13, 2016.
- Following three specialization courses in mechanical engineering started from session 2017-18.
  1. Mechanical Engineering with Specialization in Product Design and Development.
  2. Mechanical Engineering with Specialization in CAD/CAM.
  3. Mechanical Engineering with Specialization in Thermal System Engineering.

### 2.4.2 Student Activities

Following models were made by students in different activities.

S. No.	Name of Students	Batch	Name of Project
1	Harshita Sharma&Sonal Singh	IV ME	Energy generation through speed breakers
2	Harshita Sharma	IV ME	Energy generation through pelton turbine in hydro power plant
3	Harshita Sharma	IV ME	Solar stillatory for pure water
4	Anshul Agrawat	III ME	Model of Wind Mill
5	Shambhavi Sharma& Avantika Thakur	III ME	Load cell
6	Priya Gupta& Mandvi Raje Singh	II ME	Cut Section of 2-stoke petrol Engine

## 2.5 Department of Nuclear Science & Technology

Nuclear Science and Technology will play an important and pivotal role in the development of India in the 21st Century. India has a flourishing and largely indigenous nuclear power program and expects to have 20,000 MWe nuclear capacities by 2020 and 63,000 MWe by 2032. It aims to supply 25% of electricity from nuclear power by 2050. Trained personnel will be required for upcoming nuclear power plants and associated facilities in India. Nuclear science and technology is an intellectually exciting, dynamic and expanding field, supporting a wide range of applications of societal welfare such as energy, health and food production.

The Mody University is the only university in India that has introduced Nuclear Science and Technology exclusively for women in partnership with France.

M. Tech. in Nuclear Science and Technology at Mody University is a unique program, the only one of its kind in India, which trains women in advance multidisciplinary program for nuclear industry and research to play a leading role in the global civilian nuclear power industry and academics.

### 2.5.1 Seminar/ Conferences/ Special Lectures Organized by NST Department

- 1) **Prof. C.V.S. Rao**, Scientist Consultant, IPR, Gandhi Nagar gave an invited talk on September 14, 2016 on the topic "**Nuclear Fusion – Source of Clean Energy for the Future**". In the present talk focus was on the world fusion energy scenario and the Indian efforts in this direction. This lecture was attended by about 150 students from CET & CASH. He also interacted with M. Tech. (Nuclear Science & Technology) students and encouraged them to write a term paper on various topics related to fusion energy. One of the final year M. Tech. student Ms. Mamta Bhareeya is doing her dissertation on 'Tritium Breeding' at IPR, Gandhi Nagar.
- 2) **Dr. A. Abdelouas**, professor of radiochemistry and nuclear materials at the graduate school of engineering – Mines Nantes gave 20 lectures to M. Tech. (Nuclear Science & Technology) students on 'Nuclear Waste Management and Fuel Cycle' during his stay here at Mody University from September 25, 2016 to October 1, 2016. He is also the Director of the International Nuclear Master Program "Sustainable Nuclear Engineering: Applications & Management" – SNEAM. He delivered an invited talk on the topic of "**Insights on the French Deep Geological Disposal of High Level Nuclear Waste**" at College of Engineering and Technology on September 30, 2016. He also discussed about the "Opportunities related to Internship program" for Mody University students at EM Nantes, France. His lecture has benefited both the undergraduate and postgraduate students of CET.





- 3) One day **“National Seminar on Nuclear Science & Technology” (NSNST-2017)** was organized by College of Engineering & Technology (CET), Mody University of Science & Technology, Lakshmangarh (Sikar) on March 23, 2017 in collaboration and with sponsorship of Department of Atomic Energy (DAE), Mumbai. The objective of seminar was to create awareness amongst the young budding women engineers about the nuclear power programme and other societal benefits of atomic energy. The seminar was unique since all the seven invited speakers were senior women engineers/scientists from different units of DAE and it was held at one of the leading women university in India. The seminar was attended by 277 participants covering a wide spectrum of audience from different engineering disciplines (CSE, EE, BME, ME, & ECE) and also science streams like Physics and Chemistry.

The seminar was conducted at “Sangeet Samrat Tansen Sabhagar” in the university campus and it consisted of inaugural function, two technical sessions having invited talks, screening of two video films, display of posters and exhibits and concluding session with question answer and student feedback. Prof. N. K. Joshi was the convener of this one day seminar.



- 4) A **Lecture Series on “Radiation Technology and its Applications”** have been arranged at Mody University during April 27-29, 2017. **Dr. Gursharan Singh**, ex- Associate Group Director, Radio Chemistry & Isotope Group, BARC & Raja Ramanna Fellow gave eight lectures on use of Radio isotopes in industry and **Dr. M. G. R. Rajan**, ex- head Radiation Medicine Center, BARC and Raja Ramanna Fellow gave eight lectures on use of Radiation Technology in medical field.



### 2.5.2 Conferences/ Symposiums/ Meeting attended by faculty and students:

- 1) Prof. N. K. Joshi was **invited to attend the annual meeting** of 'International Nuclear Security Education Network (INSEN)' during August 22-26, 2016 **at IAEA, Vienna, Austria**. He delivered a talk on "Curriculum development in Nuclear Security" in this meeting.



- 2) Dr. Ashok Khanna, Professor and Mr. Manish Kumar, Assistant Professor along with five M.Tech students from Department of Nuclear Science and Technology attended three days workshop on advance Nuclear Security from August 24-26, 2016 at Indian Institute of Technology, Kanpur (IIT-K) campus in Kanpur, India. The workshop and trip was fully sponsored by the Partnership for Nuclear Security (PNS) for faculty as well as students.
- 3) Four faculty members namely Prof. N. K. Joshi, Prof. A. Khanna, Mr. G. Divya Deepak, Mr. Manish Kumar and six students of M. Tech. ( Nuclear Science & Technology) participated in the " International Conference On Recent trends in Renewable Energy and Smart Grid ( ICRRESG-2017)" held during Febuary 24-25, 2017. Prof. N. K. Joshi was the coordinator of panel discussion on the theme "Renewable Energy in 21<sup>st</sup> century: Opportunity and Challenges". In panel discussion, seven distinguished academicians and industry experts participated.



- 4) Prof. N. K. Joshi delivered a talk on “Experiments using GM counters” in ScienceAcademies’ Refresher course on experimental physics (December 29, 2016 to January 13, 2017) organized by CASH, Mody University.
- 5) Prof. N. K. Joshi was a member of advisory committee for two-day workshop on **LATEX** organized by CASH from April 21-22, 2017.

## 2.6 Faculty Interaction with Outside World

- Dr. V. K. Jain, Dean has attended ABET Symposium in Baltimore, USA in April, 2017.
- Dr. V.K. Jain delivered an expert lecture in Purdue University and University of North Texas. He discussed about the possibilities of collaborations with universities for both the UG and PG course of CET.
- Dr. V. K. Jain, Dean has delivered a lecture on Research Methodology in Govt. Engineering College, Bikaner.
- Dr. V. K. Jain, Dean has delivered a lecture on Research Methodology in GJU, Hisar.
- Mr. P. K. Bishnoi has delivered a lecture in GJU, Hisar.
- Dr. Anand Sharma chaired a session in Govt. Engineering College, Bikaner.
- Prof. N.K. Joshi was invited to IAEA, Vienna.
- Dr. Anand Sharma of CSE department was appointed an external examiner by MGS University, Bikaner to conduct practical examination at V.M.PG Girls College, Hanumangarh. He also briefed about academic structure of Mody University during his stay.
- Dr. Anand Sharma (Assistant Professor, CSE) attended a NPTEL awareness program at IIT Jodhpur conducted by IIT Kanpur.
- Dr. Manju has delivered lectures on latex in College of Arts, Science & Humanities, Mody University during April 21-22, 2017.
- Mr. Manish Kumar Kakhani attended a conference AMARTECH-2017 during March 27-29, 2017 in Amity Institute of Information Technology, Jaipur.
- Mr. Manmohan Sharma attended an orientation workshop for Remote centre Coordinators in IIT Mumbai organized by National mission on Education through ICT.
- Dr. Prateek Bhandi and Dr. Sanjeev Patwa attended FDP conducted by College of Arts, Science & Humanities on February 19, 2017.
- Mr. Manish Kumar Kakhani and Mr. Hitesh Jangir attended a FDP on new paradigms in Software Engineering organized by Accenture Limited.
- Dr. Rajeev Pourush attended QIP sponsored Short term Course on “Design of Microwave Antennas and Passive Components” at IIT-BHU during December 19-24, 2016.
- Mr. Vikrant Sharma and Mr. Atul Kumar were felicitated by AICTE for their text Book on CNC Machines & Automation.
- Prof. N. K. Joshi was invited to attend the annual meeting of ‘International Nuclear Security Education Network (INSEN)’ during August 22-26, 2016 at IAEA, Vienna, Austria. He delivered a talk on “Curriculum development in Nuclear Security” in this meeting.

### 3. FACULTY PUBLICATIONS

#### 3.1 Publications of CSE Department

S. No.	Author's Name	Title of the Paper	Name of Journal/ Proceedings	Volume, No., Pages, Year, Place	ISSN/ISBN/ Registered Society No.
<b>Journal Publication</b>					
1	Singh Monica and V K Jain	A New Comment on Reinforcement of Testing Criteria	<i>International Journal of Advanced Computer Science and Applications</i>	Vol. 8, No. 3, 2017, PP 338-342	
2	Sharma, S., & V K Jain	Impact of Green Supply Chain Management Practice on Organizational Performance: A Review	<i>Asia Pacific Journal of Research</i>	pp 104-109	
3	Charu Upadhyaya and Dr V K Jain	Way to Customer Delight- Interpreting the role of Dimensions of Service Quality for Effective CRM in Banking and Insurance Sectors	<i>Indore Management Journal of IIM Indore</i>	Volume 7 (issue 2) pp. 63-71	
4	Charu Upadhyaya and Dr V K Jain	The Role of Service Quality Dimensions in Shaping Consumer Behavior	<i>Sanchayan: Prestige International Journal of Management &amp; IT</i>	Volume 4 (issue 2), pp.24-31	
5	Charu Upadhyay and Dr V K Jain	Assessing the Role of Service Quality Dimensions for Banking and Insurance Sector in India	<i>ANWESH: International Journal of Management and Information Technology</i>	Volume 1, No 1, pp 06-14	ISSN: 2455-9245
6	Deepak Sethi and Partha PratimBhattacharya	Artificial Neural Network Based Base Station Localization for Energy Efficient Routing in WSN	<i>Recent Patents on Computer Science, Bentham Science Publisher</i>	Volume 9, Issue3 pp.248-259, 2016.	
7	Divya Goyal, Deepak Sethi	A review on various routing protocols and their comparison	<i>International Journal of Computing and Engineering Research</i>	Vol.1 Issue 1 December, 2016	
8	Divya Purohit, Moumita Ghosh	Challenges and Types of Home Automation Systems	<i>International Journal of Computer Science and Mobile Computing</i>	Vol. 6, Issue. 4, April 2017, pp.369 – 375	ISSN 2320–088X
9	Dr. Uma Kumari and Ms. Riddhi Gaur	Hybrid Intrusion Detection System for Private Cloud & Public Cloud	<i>Oriental Journal of Computer Science and Technology</i>	Vol 10, 2017	ISSN: 0974-6471
10	Dr. Uma Kumari and	LEACH: Energy Efficient Routing Protocol for WSNs	<i>International Journal of Engineering</i>	Vol. 5 Issue 11, pp 394-	ISSN: 2278-0181

	Ms. Neha Bhadu	along with its Enhancements	Research & Technology (IJERT)	398 , November-2016	
11	Dr. Uma Kumari and Ms. Shalini Joshi	Cloud computing: Architecture & Challenges	Mody University International Journal of Computing and Engineering Research	pp. 56-60, Vol. I, Issue 1	
12	Niranjan Lal	Search Ranking for Heterogeneous Data over Dataspace	Indian Journal of Science and Technology	Volume 9, Issue 36, September 2016 (pp.1-9)	
13	Niranjan Lal	Information Retrieval System and challenges with Dataspace	International Journal of Computer Applications, Foundation of Computer Science (FCS), NY, USA	Volume 147-number 8, August 2016, pp(23-28)	
14	Bhagyashree Pathak, Niranjan Lal	Mining of unstructured data using clustering approach	International journal of engineering research & management technology	Volume-III Issue-VI, December 2016.	ISSN 2348-4039
15	Bhagyashree Pathak, Niranjan Lal	A survey on clustering methods in Data mining	International Journal of Computer Applications	Volume 159 – No.2, February 2017	
16	Jaspreet Kaur, Anand Sharma	Performance Analysis of Face Detection by using Viola-Jones algorithm	International Journal of Computational Intelligence Research	Volume 13, Number 5 (2017), pp. 707-717	
17	Jaspreet Kaur, Anand Sharma	Review Paper on Edge Detection Techniques in Digital Image Processing	International Journal of Innovations & Advancement in Computer Science	Volume 5, Issue 11(2016), pp. 11-14	
18	Noorpreet Kaur Gill, Anand Sharma	Vehicle Detection from Satellite Images in Digital Image Processing	International Journal of Computational Intelligence Research	Volume 13, Number 5 (2017), pp. 697-705	
19	Uma Meena, Anand Sharma	Adequate Sparse Secure and Minkowski Distance Based Location Privacy Approach in Wireless Sensor Network	International Journal of Intelligent Engineering and Systems	Vol.10, No.3, 2017, pp. 280-289	
20	Pradeep Kumar , Anand Sharma	Survey on Authentication Process in Body Area Network	International Journal of Electronics Engineering Research (IJEER)	Accepted	
21	Kiran Sharma,	A Survey on the Role of	International Journal	Volume 5,	ISSN 2347 –

	Mrs. Priyanka Dahiya, Anil Kumar	Hadoop and Mahout Applications in Big Data	<i>of Innovations &amp; Advancement in Computer Science, IJIACS</i>	Issue 12, December 2016.	8616
22	Yashi Sharma, Mrs. Priyanka Dahiya, Anil Kumar	Hadoop : Big Data Analytics Solution	<i>International Journal of Innovations &amp; Advancement in Computer Science</i>	Volume 5, Issue 12, December 2016, pages 20-23.	ISSN 2347 – 8616
23	Anita Choudhary, Mrs. Priyanka Dahiya	Data Mining of Log Files Using Self-Organizing Map and Bisecting K-Means Clustering Methods Through Hadoop: A Review	<i>International Journal for Scientific Research &amp; Development</i>	Vol. 4, Issue 01, 2016,	ISSN (online): 2321-0613
24	Sourabh Singh Verma, R.B.Patel, S. k. Lenka	Analyzing varying rate flood attack on real flow in MANET and solution proposal “Real Flow Dynamic Queue (RFDQ)	<i>International Journal of Information and Communication Technology Inderscience(Scopus, ACM &amp; Elsevier compundex)</i>	Vol. 10, No. 3, 2017, pp 276-286	
25	Sourabh Singh Verma, R.B.Patel, Anil Kumar	QoS Oriented Dynamic Flow Preemption (DFP) in MANET	<i>Journal of Information and Optimization Sciences(ESCI indexed), Tayler and Francis</i>	accepted	
<b>Conference Proceedings</b>					
1	Sourabh Singh Verma, R.B.Patel, Anil Kumar	Analyzing Real Flows Performance in MANET using Dynamic Queue	<i>International Conference on Smart Technologies in Computer and Communication</i>	accepted	
2	Ankita Tripathi, Shivam Pandey, Hiteish Jangir	An Improved and Efficient Image Mining Technique for Classification of Textual Images Using Low-Level Image Features	<i>ICICT 2016, IEEE Xplore,</i>	August 26-27, 2016	
3	Ankita Tripathi, Shivam Pandey, Hiteish Jangir	Efficient Facial Expression recognition system based on geometric features using neural Network	<i>ICT4SD2016 Proceedings by Springer - LNNS Series</i>	July 1-2, 2016	
4	Harpreet Belwal, Anand Sharma	Cloud Computing for e-Governance: Indian Perspective	<i>National Conference on Emerging Trends in Science and Technology</i>	Amrapali Institute of Technology and Sciences, Haldwani, Nainital, 29th April 2017	

5	Vibha Ojha, Shradha Singh, Anand Sharma	Cloud Computing : Data Security Aspect	<i>National Conference on Emerging Trends in High Performance Computing (ETHPIC-2017)</i>	Feroze Gandhi Institute of Engg. & Tech, Rae-Bareilly, May 1-2, 2017	
6	Noorpeet Kaur, Anand Sharma, Jaspreet Kaur	Edge Detection using Sobel Operator with Wavelet Thresholding	<i>National Conference on Emerging Trends in High Performance Computing (ETHPIC-2017)</i>	Feroze Gandhi Institute of Engg. & Tech, Rae-Bareilly, May 1-2, 2017	
7	Varuni Gupta, Anand Sharma	Branding through Social Networks: Technical Perspective	<i>2nd National Conference on New paradigms in Management, Economics &amp; Commerce: A Journey Ahead (NCNPMEC-2017)</i>	MUST, Lakshmanagarh, (Feb. 18-19, 2017)	
8	Himanshu Agarwal, Anand Sharma	Cyber Security and Cyber Law: Indian Perspective	<i>National Symposium on Information Technology (NSIT-2017),</i>	SDM CET, Dharwad, 8th March 2017	
9	Aakansha Vyas, Anand Sharma	Next Generation Networks: Security Perspective	<i>National Symposium on Information Technology (NSIT-2017)</i>	SDM CET, Dharwad, 8th March 2017	
10	Shivangi Saxena, Shraddha Khanna, Anand Sharma	Identity-Based Authentication : IB Signature	<i>National Conference on New Advances in Communications, Networks, and Cryptography (NACNC-2017)</i>	JIET, Jodhpur, (March 28-29, 2017)	
11	Aakansha Vyas, Shailja Singh, Anand Sharma	Information Retrieval from Multimedia System for E-learning	<i>National Conference on New Advances in Communications, Networks, and Cryptography (NACNC-2017)</i>	JIET, Jodhpur, (March 28-29, 2017)	
12	Pradeep Kumar , Anand Sharma	Wireless Body Area Network for Health Monitoring	<i>2nd International Symposium on Internet of Things: Smart Innovation and Usages (IoT-SIU 2017)</i>	Bareilly, UP, 28 Feb-01 March 2017	
13	Pradeep Kumar , Anand Sharma	Security in Body Area Network: An Application Perspective	<i>International Conference on Emanations in Modern Engineering</i>	Nagpur, pp. 80-83	

			Science and Management (ICEMESM-2017),		
14	.Noorpreet Kaur Gill, Anand Sharma	Noise Models and De-noising Techniques in Digital Image Processing	7th International Conference on Innovative Research in Engineering Science and Management (ICIRESM-16)	13th November 2016 at IETE, Lodhi Road, New Delhi, pp. 157-161	
15	Jaspreet Kaur, Anand Sharma	Analysis of Gradient Based Edge Detection Operators	International Conference on Communication, Computing and Networking (ICCCN-2017)	23rd-24th March, 2017 at NITTR, Chandigarh, pp. 560-563	
16	Manmohan Sharma	Load Balancing algorithms in cloud computing	INDIACom 2017, IEEE Xplore,	March 1-3, 2017, BVICAM.	
17	Manmohan Sharma, Shikha Jindal	Design and Implementation of Kerberos using DES Algorithm	ACM Symposium	March 21-22, 2016, Indore, India	
18	Mehar Sood, Smita Singh	Study on Sql Injection-Threats, Attacks, Types, Prevention Techniques and Tools	International Conference on Recent Innovations in Engineering and Technology	18-19 February 2017, jaipur	
19	Mehar Sood, Smita Singh	Sql Injection Prevention Technique Using Encryption	International Conference on Recent Advances in Computer Science and Information Technology (ICRACSIT 2017) by World Research Forum for Engineers and Researchers (WRFER)	21 May 2017 at Chandigarh, Punjab.	
20	Dr. Uma Kumari and Ms. Shalini Joshi	Load Balancing in Cloud Computing:Challenges & Issues	2nd International Conference on Contemporary Computing and Informatics (ic3i), IEEE 2016	pp. 120-125, Amity Noida	ISBN: 978-1-5090-5255-4
21	Dr. Uma Kumari	Hybrid Intrusion Detection System for Cloud Computing	National Conference on New Advances in Communications Networks and Cryptography (NACNC -2017),	Jodhpur	
22	Divya Goyal,	A review on various	Recent Trends in	September	

	Deepak Sethi	routing protocols, challenges and applications in WSN	<i>Computing and Communication Technologies, (RCCT-2016)</i>	29-30, pp.300, 2016.	
23	Jyoti Anand, Deepak Sethi	Comparative Analysis of Energy Efficient Routing in WBAN	<i>Second International Conference on Computational Intelligence &amp; Communication Technology (CICT)</i>	Ghaziabad, 2016	
24	Jyoti Anand, Deepak Sethi	A Study on various routing techniques & QoS issues in WBAN	<i>National Conference on Recent Trends in Computing and Communication Technologies (RCCT)</i>	September 2016, pp. 51-53	
25	Karuna Jain and V K Jain	Renewable Energy in India: Issues and Challenges	<i>International Conference on Recent Trends in Renewable Energy and Smart Grids,</i>	24-25 February, 2017 Lakshmanagar h	ISBN: 978-93-86432-07-0
<b>Book Chapters</b>					
1	V K Jain and Sudhir Y Kumar	Renewable Energy and Smart Grid Technology	New Delhi: Bloomsbury Publishing India Pvt Ltd	pp.376	ISBN 978-93-86432-07-0
2	Chaturvedi A K, V K Jain and Himadri Phukan	Disaster Management and Mitigation Strategies	New Delhi: Excellence Publishing House	pp. 162	ISBN978-81-932836-7-7
3	V K Jain	Uttarakhand Disaster: A Review in Disaster Management and Mitigation Strategies	New Delhi: Excellence Publishing House	pp. 26-32	ISBN978-81-932836-7-7
4	Dr. V K Jain and Dr. Karuna Jain	Training Effectiveness: A Study of Management Teachers, in The Changing Scenario of Indian Business: Skills, Performance and Challenges	New Delhi: G.B. Books	pp. 1-13	ISBN No. 978-93-83930-53-1
5	Dr. V K Jain and Prashant Kumar Siddhey	"Efficacy of Information Technology (IT) Enabled Supply Chain", The Changing Scenario of Indian Business": Skills, Performance and Challenges	New Delhi: G.B. Books	pp. 246-260	ISBN No. 978-93-83930-53-1

### 3.2 Publications of ECE Department

S. No.	Author's Name	Title of the Paper	Name of Journal/ Proceedings	Volume, No., Pages, Year, Place	ISSN/ISBN/ Registered Society No.
<b>Journal Publication</b>					
1	Vikas Raina, Manish Kumar Jha, and Partha Pratim Bhattacharya	The Alive-in-Range Medium Access Control Protocol to Optimize the Queues Performance in Underwater Wireless Sensor Networks	<i>Journal of Telecommunications and Information Technology (JTIT)</i>	issue 3, 2017	
2	Vikas Raina, Manish Kumar Jha, and Partha Pratim Bhattacharya	Alive-in-Range Medium Access Control Protocol to Minimize Delay in Underwater Wireless Sensor Network Communication at a Frequency of 2.4 GHz	<i>Journal of Engineering Science and Technology</i>	vol. 12, no. 11, 2017	ISSN : 1823-4690
3	Jeetu Sharma, M.K. Jha and P.P. Bhattacharya	Design of Caucus-MAC (C-MAC) Protocol for Smart Grid using WSN	<i>Journal of Engineering Science and Technology, © School of Engineering,</i>	vol. 12, Issue 10, 2017	ISSN : 1823-4690
4	Jeetu Sharma, M.K. Jha and P.P. Bhattacharya	The QoS Improvement of WSN with IEEE 802.15.4 Protocol in 3D Electric Grid	<i>Recent patents of Engineering</i>	Vol.11, issue 03, April 2017	ISSN: 1872-2121
5	Jeetu Sharma, P.P. Bhattacharya and M.K. Jha	Performance Analysis of ZigBee in Beacon Enabled and Beacon-less Network for Smart Grid Environments	<i>International Journal of Sensor, Wireless Communication and Control</i>	Vol. 6,3 issue, November 2016	ISSN: 2210-3287
6	Jeetu Sharma, P.P. Bhattacharya and M.K. Jha	Performance Analysis of IEEE 802.15.4 in Different NLOS Environments of Smart Grids	<i>International Journal of Sensor, Wireless Communication and Control. ,</i>	Vol. 6, 3 issue, pp. 216-220, November 2016.	ISSN: 2210-3287
7	Purnima Sharma, S. K. Jha and P. P. Bhattacharya	Design of a Slotted Triple Band Triangular Patch Antenna for 3G and WLAN Applications	<i>Microwave Review Journal,</i>	Vol. 22, No.1, August 2016.	ISSN: 2406-1050
8	Sheena Kohli and Partha Pratim Bhattacharya	Sensor Hop-based Energy Efficient Networking Approach for Routing in Underwater Acoustic Communication	<i>Journal of Telecommunications and Information Technology (JTIT)</i>	2017	
9	Ranjana Thalore, P. P. Bhattacharya,	Performance Comparison of Homogenous and Heterogeneous 3D	<i>Journal of Telecommunications and Information</i>	June, 2017	

	M. K. Jha	Wireless Sensor Networks	<i>Technology (JTIT)</i>		
10	Gaurav Dhiman and P K Ghosh	Threshold Voltage Modeling for Nanometer Scale Junction Less Double Gate MOSFET	<i>International Journal of Applied Engineering Research</i>	Volume 12, Number 9 (2017) pp. 1807-1810	0973-4562
11	Gaurav Dhiman and Nirmala	Design of SRAM Cell at Low Supply Voltage Based on Schmitt Trigger	<i>International Journal of Computer Science and Mobile Computing</i>	Vol.6 Issue.5, May- 2017, pg. 22-28	2320-088X
12	Rajeev Pourush, Neetigya Abichandani, Kritika Sharma	Comparative Analysis of Microstrip Rectangular Patch Antenna with Different Feeding Techniques with the help of HFSS	<i>International Journal of Computing and Engineering Research</i>	Vol. 1 Issue 1, pp 34-42, December <b>2016</b> .	
13	Rajeev Pourush, Neetigya Abichandani, Kritika Sharma, Chapter	Design and Simulation of Microstrip Rectangular Patch Antenna using HFSS	<i>Chapter published in edited book on Renewable Energy and Smart Grid Technology published by Bloomsbury Publishing India Pvt. Ltd</i>	pp 317-321, <b>2017</b> .	ISBN : 978-93-86432-07-0
14	Indu Gupta, Mahima Tomar, and Rajeev Pourush	Fabrication of Itty Bitty Telescope to be used for measurement of Solar Radiations	<i>Chapter published in edited book on Renewable Energy and Smart Grid Technology published by Bloomsbury Publishing India Pvt. Ltd</i>	pp 133-138, <b>2017</b> .	ISBN : 978-93-86432-07-0
<b>Conference Proceedings</b>					
1	Richa Soni, Vikas raina	Tidal Energy	<i>International Conference on Recent Trends in Renewable Energy and Smart Grids,</i>	24-25 February, 2017. Lakshmanagar h	ISBN: 978-93-86432-07-0
2	Shailza Sharma, Vikas raina, V. K. Jain	Implementation of Sink Node Mobility to Prolong the Network Lifetime and Reduce End to End Delay in Underwater Wireless Sensor Networks with Mobile Sink	<i>International Conference on Recent Trends in Renewable Energy and Smart Grids,</i>	24-25 February, 2017 Lakshmanagar h	ISBN: 978-93-86432-07-0
3	Gibimol Babu, Richa Soni, Vikas Raina	Laser Based Voice Communication	<i>International Conference on Recent Trends in Renewable Energy</i>	24-25 February, 2017 Lakshmanagar	ISBN: 978-93-86432-07-0

			<i>and Smart Grids</i>	h	
4	Akanksha Shukla, Jeetu Sharma, P.P. Bhattacharya,	A review on applications and challenges in WSNs to develop a Smart City	<i>International Conference on Recent Trends in Renewable energy and Smart Grid</i>	24-25 February, 2017 Lakshmangarh, India	ISBN: 978-93-86432-07-0
5	Purnima Sharma, S.K. Jha, P.P. Bhattacharya	Design of an L-Slot Dual-Band Microstrip Patch Antenna for Wireless Applications	<i>International Conference on Recent Trends in Renewable Energy and Smart Grids</i>	24-25 February, 2017 Lakshmangarh	ISBN: 978-93-86432-07-0
6	Yamini Kularia, Sheena Kohli and Partha Pratim Bhattacharya	Analyzing Propagation Delay, Transmission Loss and Signal to Noise Ratio in Acoustic Channel for Underwater Wireless Sensor Networks	<i>1st IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016)</i>	DTU, 2016	
7	Gaurav Dhiman And Madhu	Comparative Power: Delay Analysis of Two Hybrid One-bit Full adder at 90nm and 45 nm Technology	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid</i>	Vol. 1 pp 241-246 Feb. 2017	ISBN: 978-93-86432-07-0
8	Akanksha Shukla, Jeetu Sharma, P.P. Bhattacharya	A review on applications and challenges in WSNs to develop a Smart City	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid (ICRRESG-17)</i>	Mody University of Science and Technology, February 24-25, 2017, Lakshmangarh,	ISBN: 978-93-86432-07-0
9	Reema Chauhan, Jeetu Sharma, Prof. M. K. Jha and Prof. J. V. Desai	Simulation-based performance analysis of ZigBee in three dimensional smart grid environments	<i>5<sup>th</sup> IEEE International Conference on Communication and Signal Processing (ICCSP)</i>	6-8 April 2016, Melmaruvathur, India	DOI: 10.1109/ICCSP.2016.7754418
10	Reema Chauhan, Jeetu Sharma, Prof. M. K. Jha and Prof. J. V. Desai	Performance Estimation of Priority Based Energy Efficient MAC for WSN in Smart Grid Monitoring	<i>Springer 2nd International Conference on Information and Communication Technology for Sustainable Development (ICT4SD-2016)</i>	July 1-2, 2016, Goa, India	
11	Reema Chauhan, Jeetu Sharma, Prof. M. K. Jha and Prof. J. V.	Performance Analysis of Zigbee in Different Smart Grid Environments	<i>IEEE National Conference on Computing and Informatics (NCCI-15)</i>	Mody University of Science and Technology, December 2-	

	Desai			3, 2015, Lakshmanagarh,	
12	Indu Bhuria, Rajeev Pourush, D R Godara	Effect of Leaf Size on Millimeter Wave Propagation	<i>National Conference on Emerging Trends of Engineering held at Govt. Engineering College Bikaner, Bikaner</i>	10th February, 2017,	ISBN: 978- 93-86432- 07-0
13	Priyanka Bagaria, Riya Shree, Rupali keshri, Rajeev Pourush	Energy Efficient Water Level Controller	<i>International Conference on Renewable Energy &amp; Smart Grid (ICRRESG - 17) held in Mody University of Science &amp; Technology, Lakshmanagarh</i>	24-25 February, 2017.	ISBN: 978- 93-86432- 07-0
14	Indu Bhuria, Rajeev Pourush, D R Godara	Review-A Effect of Rain on Millimeterwave Propagation	<i>International Conference on Renewable Energy &amp; Smart Grid (ICRRESG - 17) held in Mody University of Science &amp; Technology, Lakshmanagarh</i>	24-25 February, 2017.	ISBN: 978- 93-86432- 07-0

### 3.3 Publications of EE Department

S. No.	Author's Name	Title of the Paper	Name of Journal/ Proceedings	Volume, No., Pages, Year, Place	ISSN/ISBN/ Registered Society No.
<b>Journal Publication</b>					
1	Sunita Kumari, Sudhir Y Kumar	Design of Cascaded Multilevel Inverter for Harmonic Distortion Elimination	<i>International Journal of Exploring Emerging Trends in Engineering (IJEETE)</i>	Vol. 04, Issue. 2, Mar- Apr, 2017	will publish in (last week of April 2017)
2	J.V. Desai, Pradeep Kumar Dadhich, P. K. Bhatt	Investigations on Harmonics in Smart Distribution Grid with Solar PV Integration”	<i>Technology and Economics of Smart Grids and Sustainable Energy (Springer),.</i>	Vol.1 No.1, 2016 First Online: August 2016	ISSN: 2199- 4706
3	P. K. Bhatt, S.Y Kumar “	A Filtering Scheme to Mitigate the Harmonic Issues in Solar PV Integrated Nonlinear Distribution System”.	<i>Current Alternative Energy, Bentham Science Publishers, 2017,</i>	Volume 1, Issue -2, 2017 Pp: 1 - 11	ISSN: 2405- 464X (Online) ISSN: 2405- 4631 (Print)
4	P. K. Bhatt, S.Y	Investigations on	<i>Current Alternative</i>	Volume -1,	ISSN: 2405-

	Kumar	Operational Characteristics of a PV Integrated Unbalance Distribution System for Energy Management Studies	<i>Energy, Benthom Science Publishers, 2017</i>	Issue-2, 2017 pp: 1 - 9	464X (Online) ISSN: 2405-4631 (Print)
5	P. K. Bhatt, S.Y Kumar	Optimal Operation of PV Integrated Smart Distribution Feeder	<i>International Journal of Computing and Engineering Research (IJCER), Mody University</i>	, Vol. 1 Issue 1 (December 2016), pp.28-33.	
6	P. K. Bhatt, S.Y Kumar	Comprehensive Assessment of Harmonic Resonance in Smart Distribution Grid with Solar PV Integration	<i>International Journal of Renewable Energy Research IJRRER (Thomson Reuter), 2017.</i>	Volume -2, Issue-1, 2016	ISSN: 1309-0127
7	P. K. Bhatt, S. Y Kumar	Comprehensive Assessment of Fault Current Contribution in Smart Distribution Grid with Solar Photovoltaic	<i>Technology and Economics of Smart Grids and Sustainable Energy (Springer),</i>	Vol. 2, No.7, pp. 1-14, 2017	ISSN: 2199-4706
8	P. K. Bhatt, S.Y Kumar	Impact of Solar PV Inverters on the Power Quality of Smart Urban Distribution Grid	<i>International Journal of Electrical Engineering &amp; Technology (IJEET),</i>	Volume 8, Issue 2, March- April 2017, pp. 18-24,	0976-6553
9	P. K. Bhatt, S.Y Kumar	A Novel Technique for Harmonics Estimation in Smart Urban Utility Grid with Solar Photovoltaic	<i>Journal of Energy Technologies and policies</i>	Vol.7, No.1, pp.1-11, Jan. 2017	
<b>Conference Proceedings</b>					
1	Kartika Parihar, Pramod Kumar Bhatt	Solar Photovoltaic Technologies	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
2	Tarun Saxena, Himanshu Yadav, J.P. Kesari and Sudhir Y Kumar	Solar Energy is the Path for India's Rural Prosperity: A Mobile Solar PV	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
3	Neeraj Priyadarshi, Sudhir Y Kumar, Amarjeet Kumar Sharma, Arvind Anand	Fuzzy Logic Based MPPT for Standalone PV System with Performance Enhancement	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
4	Neeraj Priyadarshi,	An Integrated Inverter for Power Quality	<i>International Conference on</i>	ICRRESG-2017,	ISBN: 978-93-86432-

	Sudhir Y Kumar, Amarjeet Kumar Sharma, Arvind Anand	Improvement of Grid connected PV System with Fuzzy Logic MPPT	<i>Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	February 24- 25, 2017 CET,MUST	07-0
5	Amarjeet Kumar Sharma, Shrikshitish Priyam, Neeraj Priyadarshi, Sudhir Y Kumar	An Improved Grid Connected PV System with MPPT at Varying Irradiance Level and Ambient Temperature	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST	ISBN: 978- 93-86432- 07-0
6	Nehal Jain, S. Y Kumar	Photovoltaic & Solar Power for Smart Grid Energy Management	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
7	Kaushalya Bishnoi, Thoudam. Paraskumar Singh, Sudhir Y Kumar	Solar Energy & Jobs in India	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
8	Harshika Mittal, Arpita Dhaka, Sunita Kumari	Solar Battery Inverter for Power Grid Applications	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
9	P.K. Bhatt, S.Y Kumar	Integration of Solar Photovoltaic in Smart Distribution Grid: Constraints and Guidelines	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
10	Shikha Saini, P.K Bhatt, S.Y Kumar	Environmental Impacts of the Renewable Energy Technologies	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
11	Harshita Bhinda, P.K. Bhatt, Sudhir Y Kumar	Renewable Energy Scenario in India	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
12	Renu, P. K. Bhatt, S. Y. Kumar	Role of SCADA in Renewable Energy Power Plant	<i>International Conference on Recent Trends in Renewable Energy</i>	ICRRESG- 2017, February 24- 25, 2017	ISBN: 978- 93-86432- 07-0

			and Smart Grid( ICRRESG-2017)	CET,MUST .	
13	Nitika Tetarwal, P.K. Bhatt, S. Y Kumar	Wave and Tidal Energy for Power Generation: Current Status and Challenges	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
14	Ruchika Saini, P.K Bhatt, S.Y Kumar	Renewable Energy v/s Non-Renewable Energy	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
15	Sofia Bano, Neeraj Priyadarshi, Sudhir Y Kumar	Generation of Electrical Power Using Fuel Cell Based on Free Gibbs Energy Concept for High Power Applications	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
16	Parul, P.K Bhatt, Sudhir Kumar	Renewable Energy Modelling Tools	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
17	Urmila Sheoran, Ritu Tak	Carbon Capture & Storage	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
18	Arpita Dhaka, Harshika Mittal, Thoudam Paraskumar Singh	Energy Recovery from Sewage Plant	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
19	Harsha Kunwar Khichi, Thoudam Paraskumar Singh	Energy Storage; Rechargeable Batteries	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
20	Sachin Verma, Sudhir Y Kumar	A Review on “Energetic Use of Biomass in Cement Industries”	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG- 2017, February 24- 25, 2017 CET,MUST .	ISBN: 978- 93-86432- 07-0
21	Sunita Kumari, Sudhir Y	Implementation on Power Converter Using Sliding	<i>International Conference on</i>	ICRRESG- 2017,	ISBN: 978- 93-86432-

	Kumar	Mode Controller	<i>Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	February 24-25, 2017 CET,MUST .	07-0
22	Pratistha Gupta, RituTak	Net Zero Energy Building	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
23	Sunita Kumari, Sudhir Y Kumar	Past, Present and Future Scenario in India for Renewable Energy Resources	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
24	Janhavi Singh, Sunita Kumari	Renewable Energy Sources for Emission Reductions	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
25	Tanu Verma, Sunita Kumari	Sustainability Methodologies and Sustainable Development for Innovation	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
26	Priyanka Sharma, P.K. Bhatt, Sudhir Y Kumar	Use of Renewable Energy Resources in Smart Cities	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
27	Jane Sangma, SunitaKumari	Fuel Cells	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET, MUST .	ISBN: 978-93-86432-07-0
28	Saroj Poonia, P.K. Bhatt, S.Y. Kumar	Smart Grid Architecture	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET, MUST.	ISBN: 978-93-86432-07-0
29	Akanksha Singh, P.K. Bhatt, Sudhir Y Kumar	Smart Grid Challenges and Initiative in India	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0

30	Charika Singla, P.K Bhatt, S.Y Kumar	Grid Codes for Solar Photovoltaic Integration in India	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
31	Radhika Maheshwari, Manju, Thoudam Paraskumar Singh	Security and Privacy in Smart Grid	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
32	Navpreet Kaur, P.K Bhatt, Sudhir Y Kumar	Smart Grid, Industry Trends and Power Engineering Education	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET, MUST .	ISBN: 978-93-86432-07-0
33	Kaushalya Bishnoi , P. K. Bhatt, Sudhir Y Kumar	Modelling and Simulation of Hybrid Smart Grid for Rural Electrification in India	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
34	Thoudam Paraskumar Singh, Sudhir Y Kumar	Evolution of Ultra-Capacitor as Modern Energy Storage Device for Smart Grid Applications	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
35	Rachita Chawla, Sunita Kumari	Significance of Solar Energy in Development of Smart Cities	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
36	Arpit Shukla, Sudhir Y Kumar	An Alternate Energy Cogeneration with Sugar Industries: A Review	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
37	Ritu Tak, Sudhir Y Kumar	Chattering Elimination in Sliding Mode Control System	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
38	Ritu Tak, Sudhir Y Kumar	Induction Motor Modelling for Sliding Mode Controller Design	<i>International Conference on Recent Trends in Renewable Energy</i>	ICRRESG-2017, February 24-25, 2017	ISBN: 978-93-86432-07-0

			<i>and Smart Grid( ICRRESG-2017)</i>	CET,MUST .	
39	Harshika Mittal, Arpita Dhaka and Sunita Kumari	Design and Simulation of Solar Battery Inverter for Power Grid Application	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid( ICRRESG-2017)</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST .	ISBN: 978-93-86432-07-0
40	P. K. Bhatt, S. Y. Kumar	Fault Current Contribution and Short Circuit Behavior of a Solar PV Integrated Distribution Network”,	<i>New and Renewable Energy Resources for Sustainable Future (ICONRER 2017)</i>	ICONRER 2017 February 2-4, 2017, S.K.I.T, Jaipur	
<b>Book Chapters</b>					
1	P. K. Bhatt, J. V. Desai, P.K. Dadhich	Challenges & Control Opportunities in the Integration of Solar Energy into the Smart Grid: A Survey	<i>Advanced Engineering Research and Applications (Book Code: AERA)</i>	Advanced Engineering Research and Applications, Research India Publications, Delhi, India. pp. 417-432, 2017	ISBN No. 978-93-84443-48-1
2	P. K. Bhatt, Sudhir Y Kumar,	Integration of Solar Photovoltaic in Smart Distribution Grid: Constraints and Guidelines	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd. pp.118-125.,2017	ISBN: 978-93-86432-07-0
3	Kaushalya Bishnoi, P. K. Bhatt, S. Y Kumar,	Modeling and Simulation of Hybrid Smart Grid for Rural Electrification in India	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd. pp.179-184, 2017	ISBN: 978-93-86432-07-0
4	Renu, P. K. Bhatt, S. Y Kumar	Role of SCADA in Renewable Energy Power Plant	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 207-211, 2017 .	ISBN: 978-93-86432-07-0
5	Charika Singla, P. K Bhatt, Sudhir Y kumar,	Grid Codes for Solar Photo-voltaic Integration in India	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd. pp. 272-277. 2017	ISBN: 978-93-86432-07-0
6	Akanksha Singh, P. K. Bhatt, S. Y Kumar,	Smart Grid Challenges and Initiatives in India” Renewable Energy and Smart Grid technology	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd. .,pp. 304-310. 2017	ISBN: 978-93-86432-07-0

7	Priyanka Sharma, P. K. Bhatt, Sudhir Y. Kumar	Use of Renewable Energy Resources in Smart Cities	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd. pp. 340-347, 2017	ISBN: 978-93-86432-07-0
8	Sunita Kumari, S. Y Kumar	Past, Present and Future Scenario for Renewable Energy Resources in India	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 173-178, 2017	ISBN: 978-93-86432-07-0
9	Harshika Mittal, Arpita Dhaka and Sunita Kumari	Design and Simulation of Solar Battery Inverter for Power Grid Application	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 226-233, 2017	ISBN: 978-93-86432-07-0
10	Ritu Tak & S.Y Kumar	Induction Motor Modeling for Sliding Mode Controller Design	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd 2017	ISBN: 978-93-86432-07-0
11	Ritu Tak & S.Y Kumar	Chattering Elimination in Sliding Mode Control System	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd 2017	ISBN: 978-93-86432-07-0
12	Neeraj Priyadarshi and Sudhir Y Kumar,	Simulation and Experimental Control Realization of Z-Source Inverter for Grid Connected PV System using D-Space Controller	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd page no. 57-64, 2017	ISBN: 978-93-86432-07-0
13	Tarun Saxena, J. P. Kesari and Sudhir Y Kumar,	Solar Energy is the Path for India's Rural Prosperity: A Mobile Solar PV Application	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp.106-110, 2017	ISBN: 978-93-86432-07-0
14	Thoudam Paraskumar Singh and Sudhir Y Kumar	Evolution of Ultra-Capacitor as Modern Energy Storage Device for Smart Grid Applications",	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp, 139-145, 2017	ISBN: 978-93-86432-07-0
15	Neeraj Priyadarshi, Sudhir Y Kumar, Amarjeet Kumar Sharma and Arvind Anand,	Fuzzy Logic Based MPPT for Standalone PV System with Performance Enhancement,	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 154-159	ISBN: 978-93-86432-07-0
16	Neeraj Priyadarshi, S. Y Kumar, Amajeet	An Integrated Inverter for Power Quality Improvement of Grid Connected PV System with	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 196-	ISBN: 978-93-86432-07-0

	Kumar Sharma and Arvind Anand,	Fuzzy Logic MPPT		206, 2017	
17	Kaushalya Bishnoi, Thoudam. Paraskumar Singh, Sudhir Y Kumar	Solar Energy & Jobs in India	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 219-225, 2017	ISBN: 978-93-86432-07-0
18	Sachin Verma and S. Y Kumar,	Energetic Use of Biomass in Cement Industries	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 247-250, 2017	ISBN: 978-93-86432-07-0
19	Amarjeet Kumar Sharma, Shrikshitish Priyam, Neeraj Priyadarshi and Sudhir Y Kumar	An Improved Grid Connected PV System with MPPT at Varying Irradiance Level and Ambient Temperature	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp.278-290, 2017	ISBN: 978-93-86432-07-0
20	Arpit Shukla and Sudhir Y Kumar	An Alternate Energy Cogeneration with Sugar Industries: A Review	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 328-332,2017	ISBN: 978-93-86432-07-0
21	Radhika Maheshwari, Manju, Thoudam Paraskumar Singh	Security and Privacy in Smart Grid	<i>Renewable Energy and Smart Grid Technology</i>	Bloomsbury Publishing India Pvt. Ltd pp. 322-327,2017	ISBN: 978-93-86432-07-0

### 3.4 Publications of ME Department

S. No.	Author's Name	Title of the Paper	Name of Journal/ Proceedings	Volume, No., Pages, Year, Place	ISSN/ISBN/ Registered Society No.
<b>Conference Proceedings</b>					
1	Shubhangi Sharma, Pikesh Bansal	Ocean Thermal Energy Conversion: Challenges in Installation	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
2	Harsimran Kaur, Pikesh Bansal	Study and experimental analysis of turbine to determine performance characteristics and developing CFD model.	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0

3	Garima Sharma, Atul Kumar	Gradient of Solar Pond	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
4	Avantika Thakur	Biofuels from Algae: Technology Options & Quantum of Energy	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
5	Anshul Agrawat	Renewable Energy Potential of India	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
6	Katyayni Saraswat	Biofuel: Present, past and future	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
7	Shambhavi Sharma	Wind Power Systems: Technology White paper	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
8	Keerti Gurjar	Research and Development on Photovoltaic Energy	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
9	Mandvi Raje Singh, Pikesh Bansal	Barriers to development of Renewable Energy in India	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
10	Harshita Sharma, N.S. Baruaole	A review on the technologies of green fuel cell	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0
11	Mukul Kant Paliwal, Harshita Sharma, Sonal Singh	A review on hydrogen as the future fuel	<i>Renewable Energy and Smart Grid Technology</i>	ICRRESG-2017, February 24-25, 2017 CET,MUST	ISBN: 978-93-86432-07-0

### 3.5 Publications of NST Department

S. No.	Author's Name	Title of the Paper	Name of Journal/ Proceedings	Volume, No., Pages, Year, Place	ISSN/ISBN/ Registered Society No.
<b>Journal Publication</b>					
1	G Divya Deepak, N.K. Joshi, U.Pal, R.Prakash	Electrical characterization of atmospheric pressure dielectric barrier discharge-based cold plasma jet using ring electrode configuration	<i>Laser and Particle Beams</i> (SCI-INDEXED)	V. 34, pp. 615-620, 2016, Cambridge University Press, USA	ISSN: 0263-0346 (Print), 1469-803X (Online)
2	G Divya Deepak, N.K. Joshi, Dharmendra Pal, Ram Prakash	A low power miniaturized dielectric barrier discharge based atmospheric pressure plasma jet	<i>Review of Scientific Instruments</i> (SCI-INDEXED)	V. 88, pp. 013505 2017, AIP, USA	ISSN: 0034-6748 E-ISSN: 1089-7623
<b>Conference Proceedings</b>					
1	G Divya Deepak, N.K. Joshi	Analysis of CANDU load cycle based on effect of xenon poisoning	INTERNATIONAL YOUTH NUCLEAR CONGRESS- ( IYNC -2016), July 24-30, 2016, Hangzhou, China	Selected for oral presentation, TSOI-B (NPP operation and maintenance)	
2	Manish Kumar, Nitai Pal and G Divya Deepak	Nuclear Energy: An Integrated Energy Source in Smart Grid Framework	" Renewable energy & Smart Grid Technology" Editors: V. K. Jain & Sudhir Y. Kumar, pp. 111-117	ICRRESG-2017, BLOOMSBURY PUBLISHING INDIA PVT.LTD ,2017	ISBN: 978-93-86432-07-0
3	Khushboo Khandal, Student, M. Tech. (Nuclear) – II nd year	Economics of Nuclear Power	International Conference on Recent Trends in Renewable Energy and Smart Grid (ICRRESG-2017), Feb. 24-25, 2017	Abstract, RRESG-17-104, p. 99	ISBN: 978-93-86432-07-0
4	Surabhi Choudhary, Student, M. Tech. (Nuclear)- Ist year	Future of Nuclear Power Runs on the waste of our Nuclear Past	International Conference on Recent Trends in Renewable Energy and Smart Grid (ICRRESG-2017), Feb. 24-25, 2017	Abstract, RRSEG-17-80, p.93	ISBN: 978-93-86432-07-0
5	Parul Nimawat, Student, M.	Effects of Nuclear Sources on other Renewable Source	International Conference On Recent Trends in	Abstract, RRSEG-17-97, p.97	ISBN: 978-93-86432-

	Tech. (Nuclear)- Ist year		<i>Renewable Energy and Smart Grid (ICRRESG-2017), Feb. 24-25, 2017</i>		07-0
6	Bhawna Sharma, Student, M. Tech. (Nuclear)- Ist year	Cyber Security in Control system in Nuclear Power Plant	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid (ICRRESG-2017), Feb. 24-25, 2017</i>	Abstract, RRSEG-17-24, p.116	ISBN: 978-93-86432-07-0
7	Ruby Badesra Student, M. Tech. (Nuclear)- Ist year	Role of Nuclear Energy in Smart Grid	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid (ICRRESG-2017), Feb. 24-25, 2017</i>	Abstract, RRSEG-17-82, p.112	ISBN: 978-93-86432-07-0
8	Nishu Goyal , Student, M. Tech. (Nuclear)- Ist year	Future of Nuclear Power Runs on the waste of our Nuclear past	<i>International Conference on Recent Trends in Renewable Energy and Smart Grid (ICRRESG-2017), Feb. 24-25, 2017</i>	Abstract, RRSEG-17-96, p. 97	ISBN: 978-93-86432-07-0

## 4. PROFESSIONAL SOCIETY ACTIVITIES

### 4.1 Activities Under IEEE Student Chapter

1. **IEEEExtreme 24-hour Programming Competition** was held from October 22-23, 2016. IEEEExtreme is a global challenge in which teams of IEEE Student members, supported by an IEEE Student Branch and advised and proctored by an IEEE member; compete against each other to solve a set of programming problems during a 24-hour time span. The competition is inaugurated by Dr. V. K. Jain, Dean (CET) and Dr. Anil Kumar, HOD (CSE). The competition has been organized in CAD Lab (ABB), ground floor. Four teams have participated. Two Proctor were there to supervise and to provide the necessary support to the participating team.

All active participants in the competition will receive a digital certificate and gift from IEEE.



## 5. DOCTORAL PROGRAMME

The following candidates have received their PhD degree during 2016 – 2017:

1. Dr Anand Sharma
2. Dr Manju

The following candidates have submitted their PhD thesis:

1. Ms. Shruti Suman
2. Mr. S. S. Verma

## 6. INTERNATIONAL INTERNSHIPS

### 6.1 Details of Students who went for International Internship

S. No.	Name	Enroll. No.	CGPA	Branch	Institute Name/ Period
1.	Jayati Vijaywargiya	140234	9.84	CSE	GSI, Darmstadt, Germany, <b>For three months starting from June 19, 2017</b>
2.	AANCHAL AGARWAL	140055	9.57	ECE	Polytech Nantes, France, <b>June1 – July21, 2017</b>
3.	*Charul Rathore	140135	9.59	CSE	GSI/ FAIR student program, Germany, <b>July 24- September 24,2017</b>
4.	Anushka Tibrewal	140219	7.9	CSE	GSI, Darmstadt, Germany, <b>For three months starting from June 19, 2017</b>
5.	Anukriti Srivastava	140159	9.14	CSE	Polytech Nantes, France, <b>June1 – July21, 2017</b>
6.	SHRADHA SHARMA	140056	9.09	ECE	Polytech Nantes France, <b>June1 – July21, 2017</b>
7.	Vandana Sharma	140122	8.78	CSE	KIT, Germany <b>June 1- August 15, 2017</b>
8.	Nishita Singh Parmar	140061	8.0	ECE	KIT, Germany <b>June1 – July21, 2017</b>
9.	Arunima Thappa	140057	8.51	ECE	KIT, Germany, <b>June1 – July21, 2017</b>
10.	Keerti Gurjar	150387	8.06	ME	Polytech Nantes, France, <b>June1 – July21, 2017</b>
11.	Ekta Yadav	140080	7.92	ECE	Polytech Nantes France, <b>June1 – July21, 2017</b>
12.	Sakshi Srivastava	140043	9.10	ECE	Polytech Nantes, France, <b>June1 – July21, 2017</b>

## 7. CAREER DEVELOPMENT CENTRE (CDC)

The year 2016-17 has been quite prolific for the Career Development Centre. Throughout the year the Centre has been involved in a flurry of activities starting with:

**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.

**Collaborations with Industry:**

- (a) Signed MoU with IBM to launch/introduce two specialized programmes for B.Tech. students.
- (b) Signed MoU with Ericsson to introduce RAN as an elective course in B.Tech. programme.

**Achievements:**

- (a) Inclusion of Industry leaders in the list of recruiters like: SAP Labs, John Deere, SKF Bearings, HSBC Bank, Bhasin Group.
- (b) Internships (paid) extended by Infosys, JSR Technologies, Aarmon Tech. & Aayat Infotech for BCA, MCA & B.Tech.+ M.Tech.(Integrated) Students.
- (c) 100% Conversion of internships to Permanent Placement Offer (PPO) in Amazon and Honeywell for the 2<sup>nd</sup> consecutive year.
- (d) Achieved 100% placement of the interested and eligible students of CET.

**Placement Details:**

- More than 350 offers generated.
- Maximum package Rs. 16 LPA and average package Rs. 4.5 LPA.
- Many placement drives are in process to place the remaining unplaced students.
- Most of the students got multiple offers.

- Internships & PPOs offered to our engineering students by the industry leaders like Amazon, Honeywell, Ericsson, Infosys etc. with stipend.

**Alumni:**

- Second Alumni Meet was organized on May13, 2017 at New Delhi, which received an overwhelming response from all the stakeholders.
- Initiatives taken to form an offshore alumni Chapter at USA for USA and Europe based students.
- Opportunities explored in the areas of offshore placements and further higher studies.

**Undergraduate**

Branch	Total Students (I)	Not Interested (II)	Below 60% / Multiple Backlogs (III)	Total Interested Students (I-(II+III))	Students Placed	Placed %age	Remaining
B. Tech. CSE	155	8	32	115	108	93.91	7
B. Tech. ECE	75	6	6	63	49	77.78	14
B. Tech. EEE	16	1	4	11	6	54.55	5
B. Tech. ME	6	1	1	4	2	50.00	2
BCA	7	0	3	4	1	25.00	3
<b>TOTAL (UG)</b>	<b>259</b>	<b>16</b>	<b>46</b>	<b>197</b>	<b>166</b>	<b>84.26</b>	<b>31</b>

**Postgraduate**

Branch	Total Students (I)	Not Interested (II)	Below 60% / Multiple Backlogs (III)	Total Interested Students (I-(II+III))	Students Placed	Placed %age	Remaining
MCA	28	6	1	21	9	42.86	12
M.Tech.	18	7	1	10	0	0.00	10
B.Tech.+ M.Tech.(Int.)	32	2	6	24	8	33.33	16
MBA	27	1	5	21	9	42.86	12
<b>TOTAL (PG)</b>	<b>105</b>	<b>16</b>	<b>13</b>	<b>76</b>	<b>26</b>	<b>34.21</b>	<b>50</b>

<b>Total Offer</b>	<b>369</b>
<b>Actual</b>	<b>192</b>
<b>Overlapping</b>	<b>177</b>

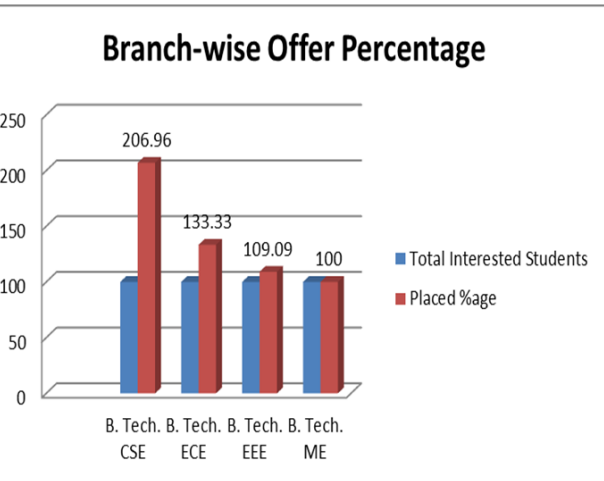
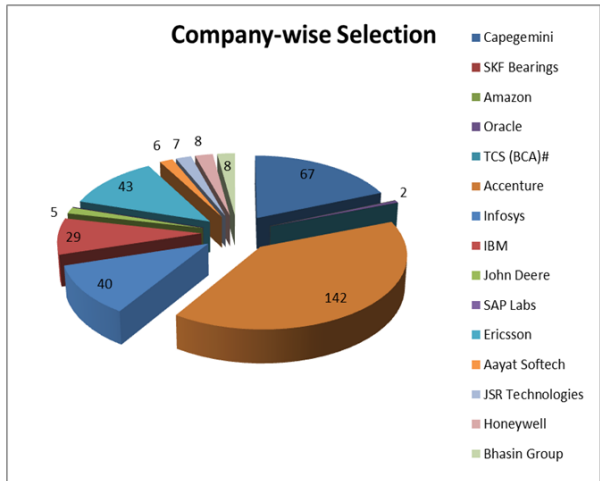
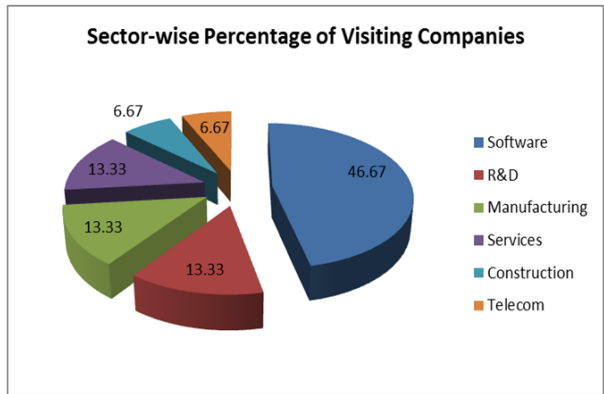
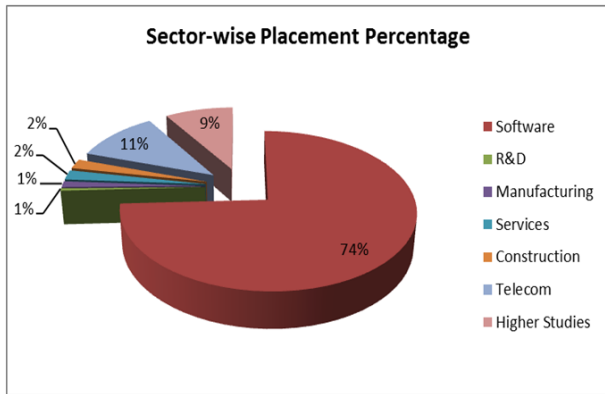
## College of Engineering and Technology

Sr.	Company	Selection
1	Capegemini	67
2	SKF Bearings	0
3	Amazon	0
4	Oracle	2
5	TCS (BCA)	0
6	Accenture	142
7	Infosys	40
8	IBM	29
9	John Deere	5
10	SAP Labs	0
11	Ericsson	43
12	Mahindra & Mahindra	2
12	Aayat Softech	6
13	JSR Technologies	7
14	Honeywell	8
15	Bhasin Group	8
16	SGL Infosolutions	2
17	HSBC Bank#	
<b>Total</b>		<b>361</b>

## Salaries offered by visiting companies

Salary	1.80 - 3.5	3.5 - 5.5	5.5 - 8.5	> 8.5
Students	80	259	16	2
Companies	3	6	2	1

Course	One Offer	Two Offer	Three Offer	Four Offer	Five Offer	Total
	<b>86</b>	<b>65</b>	<b>31</b>	<b>10</b>	<b>4</b>	<b>369</b>
B. Tech. CSE	36	38	27	9	2	239
B. Tech. ECE	24	21	3	0	2	85
B. Tech. EEE	3	1	1	1	0	12
B.Tech. ME	0	2	0	0	0	4
M.Tech.	0	0	0	0	0	0
B. Tech. + M. Tech. (Int.)	7	0	0	0	0	7
M. Sc. IT	0	0	0	0	0	0
MCA	7	2	0	0	0	11
MBA	8	1	0	0	0	10
BCA	1	0	0	0	0	1
BBA	0	0	0	0	0	0



## 8. LIBRARY ACTIVITIES

1. ACM database were subscribed. ACM publishes the premier collection of peer-reviewed journals in the field of computing, written and edited by leading international experts in their respective fields. They continue to launch new journals each year to serve the needs of growing scientific community. ACM gives access 40+ High-impact journals and 480,000 journals articles.
2. CET library organizes book exhibition every year. The aim of conducting library book exhibition is to enrich the library collection and awareness of library services to the users.



**Library Resources Available**

S.No.	Resource	Number
1.	Books	35307
	Titles	7964
	Volumes	35307
2.	E-Books	160
3.	Print Journals & Magazines (National & International)	93
4.	Online Journals	IEEE, Knimbus
5.	Bound Volumes	283

6.	Ph.D Thesis	50
7.	Project Reports	1935
8.	Compact Disk	1780

**Subject Wise Books Details**

<b>S.N.</b>	<b>Subject</b>	<b>Title</b>	<b>Volume</b>
1.	Computer Science & Engineering	3175	15385
2.	Electronics & Communication Engineering	2190	9963
3.	Electrical Engineering	288	1213
4.	Mechanical Engineering	246	1108
5.	Nuclear Engineering	59	301
6.	Nano Science & Technology	29	61
7.	Physics	874	1928
8.	Chemistry	662	1385
9.	Mathematics	251	2516
10.	English	69	902
11.	Competitive & General Books	118	530
12.	Medical physiology	3	15
	<b>Total</b>	<b>7964</b>	<b>35307</b>

## 9. STUDENT SOCIETIES

### 9.1 ATHLON

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 our personalities 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 our talents among the best of colleges and players.

#### 9.1.1 MAITREE, 2017 at GLA University, Mathura, Uttar Pradesh

The sports teams of our CET, MUST attended the sports fest from March 24-26, 2017 at GLA University, Mathura and this time also, we succeeded in bringing home more than a dozen medals, under the guidance of Mr. Suneet Gupta, Mr. Sourabh Singh Verma and Mr. Ramesh Kumar, the team participated in the events of Football and Athletics. Throughout the three days of the tournament, all the accompanying personnel took great care of the students, cheered for us and boosted our morale like friends.

#### ➤ Achievements:

- Winners in Football
- Best player trophy in football: Won by Swati Nagori
- Athletics:
  - i. 1500 m: Gold medal won by Shriya Mishra
  - ii. 4 X 400 m relay: Silver medal won by Swati Nagori, Kareena Jainiani, Shubhita Lamba & Chetansi Choudhary.
  - iii. 200 m: Silver and Bronze won by Swati Nagori and Chetansi Choudhary respectively.
  - iv. 800 m: Silver medal won by Surbhi.
  - v. Shot put: Bronze medal won by Nikita Chaturvedi
- Total Medals: Gold = 17, Silver = 7, Bronze = 1.



### 9.1.2 SPARDHA'17 at IIT BHU

The sports teams of CET, MUST attended the sports fest from October 21, 2016 to November 23, 2016 at IIT (BHU) and this time also, we succeeded in bringing home more than a dozen medals, under the guidance of Mr. Suneet Gupta, Mr. Sourabh Singh Verma, and Mr. Ramesh Kumar, The team participated in the events of Basketball, Volleyball, Table Tennis, Badminton, Lawn Tennis, Handball, Kho-Kho and Athletics. Throughout the three days of the tournament, all the accompanying personnel took great care of the students, cheered for us and boosted our morale like friends.

➤ **Achievements:**

- Gold Medal in Basket Ball
- Silver Medal in Volley Ball
- Silver Medal in Lawn Tennis
- Silver Medal in Badminton
- Silver Medal in 800 m race
- Best player of the tournament in Basket Ball
- Overall Girls Champion Trophy
- Total Medals: 12-Gold medals and 21-Silver medals.



### 9.1.3 31st Edition of BITS Open Sports Meet 2016 (BOSM, 2016)

The sports teams of CET, MUST attended the sports fest from September 15-19, 2016 at BITS-PILANI, JHUNJHUNU, Rajasthan, INDIA.

➤ **Achievements:**

- 2nd Runner's up( Bronze medal) in Football
- Gold medal in 4 X 100 m relay race
- Silver and Bronze medals in 100 m race
- Bronze medal in 4 X 100 m relay race
- Total Medals: Gold = 4, Silver = 1, Bronze = 16.



### 9.1.4 MST'17 at MNIT Jaipur

The sports teams of CET, MUST attended the sports fest from February 17-19, 2016 at MNIT Jaipur.

➤ **Achievements:**

- Won Gold Medal in Basket Ball
- Won Gold Medal in Volley Ball
- Won Silver Medal in Lawn Tennis
- Won Bronze Medal in Badminton
- Won Bronze Medal in Table Tennis



### 9.1.5 Mody University Sports Day Celebration, 2017

The Mody University Sports Day was celebrated on January 25, 2017. There were all together four track events and all of them were won by CET students. The details are as follows:

- 100 m was won by Swati Nagori, Vth BTMT CSE.
- 200 m was won by Khushbu Nagori, Vth BTMT ECE.
- 4 X 100 m relay was won by Swati Nagori ( Vth BTMT CSE), Kriti Gupta (IIIrd B. Tech CSE), Mahima Tyagi (IIIrd B. Tech CSE) & Apurva Kapur (IInd B. Tech CSE).
- 400 m was won by Khushbu Nagori, Vth BTMT ECE

## 9.2 ROBOTA

### 9.2.1 VISION BOTIX WORKSHOP ORGANISED BY ROBOTA & ECE

#### DEPARTMENT

A four day workshop on Vision Botix was organized by ECE Dept. & ROBOTA, the robotics club of College of Engineering and Technology, Mody University. Vision Botix system is a robot fitted with one or more cameras used as sensors to provide a secondary feedback signal to the robot controller to more accurately move to a variable target position. It is used in Material handling, Automated Assembly, Agricultural Application life sciences and more.

The inaugural function was held on September 25, 2016. The function started with Saraswati Vandana and Lamp Lightening Ceremony followed by the Speech Given by Dean CET, Dr. V.K. Jain who enlightened the students with the motivational speech. He congratulated the Organisers of ROBOTA for their efforts to organize the four day technical event. He also appreciated the students for their active participation. Head of Mechanical Department and Co-ordinator of Student Affairs Mr. N.S. Baruaole emphasized on focusing more on Practical Knowledge and inspired the students to participate in such technical workshops. He also motivated students to conduct events on robotics in Technical Festival of Mody University (CORDINAZO'17). Prof. P.K. Ghosh, Head ECE Department thanked ROBOTA and the Techienest, for organizing the workshop. He shared the history of ROBOTA and also made the participants aware about the selection of one team from the participants at the end of the session that will be representing their ROBOT in Tech fest of IIT Bombay.

Saurav Bhardawaj, who came to conduct the workshop from Techienest talked about his aim in transforming engineers in technocrats. He congratulated everyone for organizing this workshop and also discussed about the topics he will be discussing in this 4 day workshop. At the end of the ceremony Dean CET presented the bouquet to the experts from Techienest. Great amount of zeal and enthusiasm was seen in the students. There was an active participation of 97 students in the workshop all from different branches of engineering.

On Day 1 (September 25, 2016 ) session the following topics were covered Robotics, Introduction to sixth sense technology and Vision Botix ,Introduction to microcontrollers with description about Atmega8 , Memory organization in microcontrollers, Input & Output peripherals in Microcontrollers, Registers in Microcontrollers and about Programming of Microcontrollers.

On Day 2 (September 26, 2016) participants were taught about the practical implementation of the theory. They continued by Interfacing of LEDs with the microcontroller. They practically implemented different pattern of LED blinking and Interfacing Motors with microcontrollers.

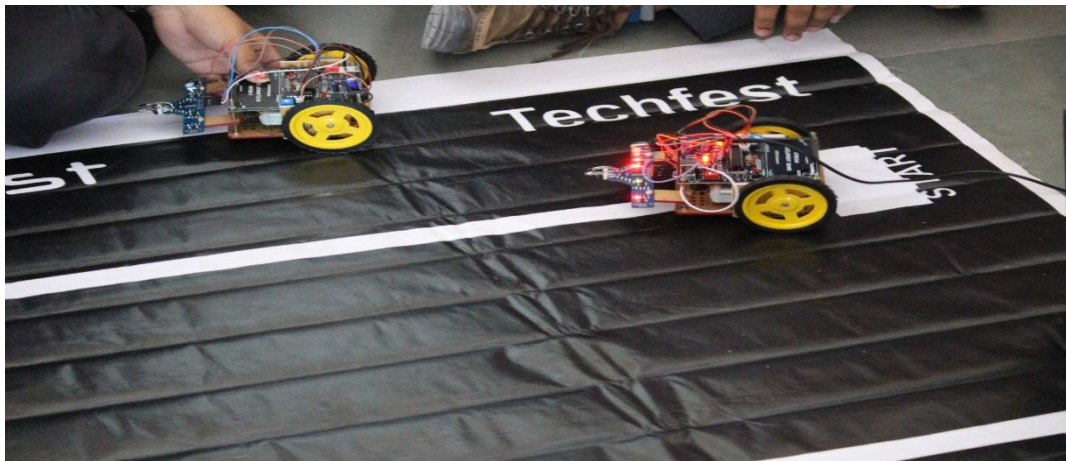
On Day 3 (September 27, 2016) introduction of MATLAB was given. It was followed by significance of MATLAB (windows Editor, workspace, Command History and Command Window Basics of MATLAB Programming), Use of primary commands in MATLAB, Introduction to Arrays, Matrices Formation of a Color Pixel from a Matrix, Introduction to file Types Understanding Looping and Conditional Statements in program, Introduction to Image Processing Introduction to images, pixels and frames Types of images and

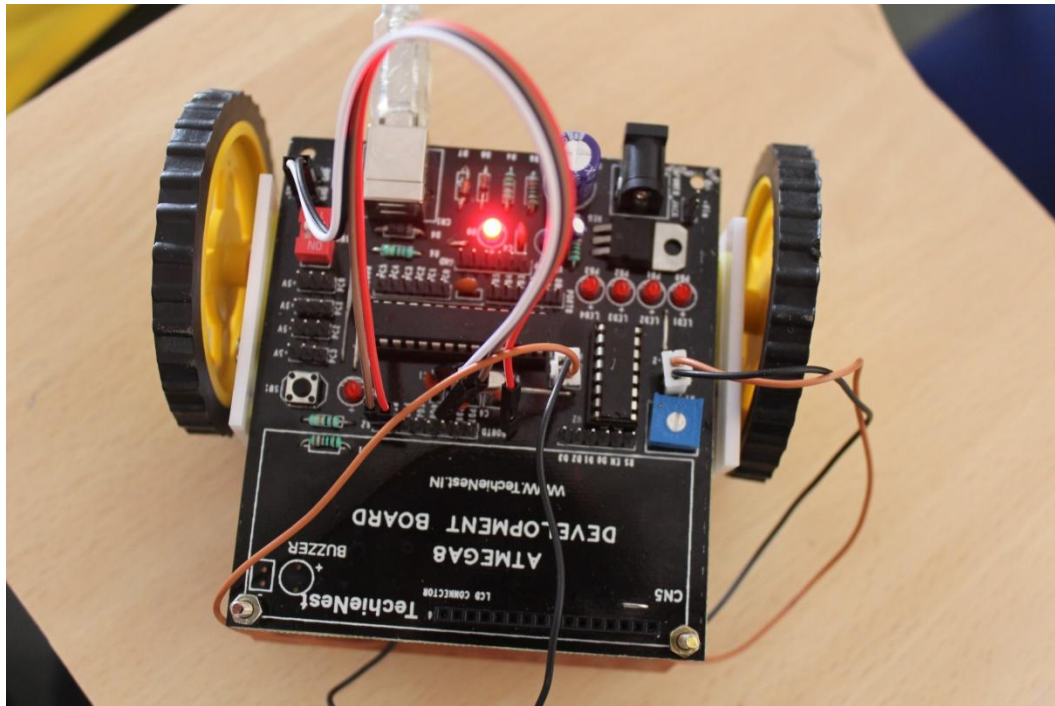
their conversion. Students practically implemented acquisition and displaying different format images.

The students learned about Properties of a Camera, Camera Resolution, Camera Formats, Image color format by default camera. The students also implemented “Getting a continuous video streaming from the camera, Capturing Frames from the Live Streaming, Converting type of Captured frames into other types, Calculating a number of Black and White Pixels in the Captured frame, Gesture Control Web Browsing, Gesture Control mp3 Player”.

On the last day of the Workshop, interfacing Image Processing (MATLAB) with microcontroller and Blinking Pattern of LEDs by various color gestures was discussed and students made Gesture control Robots. This session was followed by query solving session and certificate distribution.







## 9.3 RHETORICA

Rhetorica is the annual literary festival of Mody University, organised by the students of College of Engineering and Technology every year in the month of September. Year 2016 saw the third edition of Rhetorica. Rhetorica was introduced with the vision of imparting debating, intellectual, diplomacy skills amongst students and giving them a plethora to forward their ideas and thoughts, the freedom to express one's opinion on various topics.

RHETORICA-2016 was conducted under the mentorship of Mrs. Uma Nirmal, Assistant Professor ECE department.

### Student Body

1. Secretary General - Ankita Sharma
2. Director General- Bhavini Saraswat
3. Chief Advisor- Rakshit Goyal
4. USG Administration - Prity Pawas Anand
5. USG Technical- Neha Vasdev
6. USG Logistics- Shaily Saigal
7. USG Design- Surbhi Gupta
8. USG Public Relations- Rachita Chawla
9. USG Delegate Affairs- Aditi Singh
10. USG Outreach- Gazal Mittal
11. USG Hospitality- Vibhuti Chaturvedi
12. USG Publicity- Shreya Bhat

There were total 13 events and 3 talk sessions in Rhetorica this year.

### ➤ MUN Conference

Starting with 2 committees in its 1st edition to 4 committees in the third edition

- United Nations Security Council

Agenda- Measures to curb revenue generation by extremists groups.

- International Atomic Energy Agency

Agenda- Drafting an Action Plan on Nuclear Safety

- African Union

Agenda- Combating terrorism and poverty in the continent

- Lok Sabha

Agenda-Reviewing the armed forces special power act

### ➤ Informal Events

1. Debate
2. Spell Bee
3. Just A Minute
4. Story Writing

5. Poetry
6. AD MAD
7. Sequel cycle
8. Elocutions
9. Extempore
10. Green On Reels
11. The Leader
12. Quiz

### RHETORICA 2016 ITINERARY

DATE	TIME	EVENT	VENUE
2 <sup>nd</sup> September 2016			
	10:00 Hrs	Inauguration begins	Room No.1
	11:15 Hrs	Spell Bee	Room No. 4
	12:45 Hrs	JAM	Room No.1
	13:30 Hrs	Lunch Break	Mess
	15:00 Hrs	Debate Round 1 (English-Hindi both)	Room No.1
	16:00 Hrs	Elocutions	Room No. 4
	16:00 Hrs	AD MAD	Room No. 31
3 <sup>rd</sup> September 2016			
	9:00 Hrs	Debate Round 2 (English-Hindi both)	Room No.1
	9:00 Hrs	Delegate registrations	ABB Lobby
	10:00 Hrs	Sec. Gen Address to the delegates	Room No.1
	10:15 Hrs	High tea	Mess
	10:30 Hrs	Speaker-Shraddha Bakshi	Room No.1
	10:30 Hrs	Committee begins	CET(Room No. 32,201,232,233 )
	10:30 Hrs	Story Writing (English-Hindi both)	Room No.31
	11:00 Hrs	Poetry writing (English-Hindi both)	Room No.126
	12:00 Hrs	Quiz	Room No.1
	13:15 Hrs	Committee adjourns	CET(Room No. 32,201,232,233 )
	13:30 Hrs	Lunch	Mess
	14:30 Hrs	Committee resumes	CET(Room No. 32,201,232,233 )
	15:00 Hrs	Speaker- Sanah Rizvi	Room No.1

	16:00 Hrs	Green On Reels	Room No.1
	17:00 Hrs	The Sequel Cycle	Room No.31
	17:00 Hrs	Committee adjourns for the day	CET(Room No. 32,201,232,233 )
	17:00 Hrs	High tea	Mess
4 <sup>th</sup> September 2016			
	9:15 Hrs	High tea	Mess
	9:30 Hrs	Extempore	Room No.1
	9:30 Hrs	Committee resumes	CET(Room No. 32,201,232,233 )
	11:00 Hrs	The Leader	Room No.4
	12:00 Hrs	Speaker- Priyank Aryan	Room No.1
	13:15 Hrs	Committee adjourns	CET(Room No. 32,201,232,233 )
	13:30 Hrs	Lunch	Mess
	14:30 Hrs	Committee resumes	CET(Room No. 32,201,232,233 )
	16:30 Hrs	Committee adjourns for the day	CET(Room No. 32,201,232,233 )
	16:30 Hrs	High tea	Mess
	16:45 Hrs	Prize Distribution	Room No. 1
	17:30 Hrs	Rhetorica Third Edition curtains	Room No. 1

### 9.3.1 DAY1: Inaugural Function

#### ➤ Inaugural Function

Rhetorica, the echo of the name itself manifests a superlative degree of sage words. Amidst strewn streamers and loud cheers, a three day literary fest of CET, Mody University, Lakshmangarh commenced on September 2, 2016. The program was started by the auspicious lamp lighting by the Prof. Suresh Advani, President of Mody University and Dr. V. K. Jain, the Dean of CET. Prof Suresh Advani (President - Mody University) was the chief guest for the inauguration ceremony.



There were 180 students who had attended the inauguration ceremony. Prof. Suresh Advani, Honourable President, enlightened the students about the connection with books and encouraged and motivated them towards reading more books and considers books as their best friend.

➤ **Debate**

English Debate Round Topics:

1. Does Britain owe India reparations?
2. Feminism and Misogyny
3. Euthanasia or Mercy Killing
4. Does money motivates people more than any other factor in workplace.
5. Marriage is an outdated institution.

Debate competition was judged by Mr. Tushar Gupta, faculty of College of Buisness Management, Economics and Commerce.



➤ **Spell Bee**

Round 1 (Qualifying Round): The candidates will be provided with a blank paper. Fifteen words will be announced and the candidates will have to jot down the spellings of the announced words.

Round 2 (Guess the word): A list with incomplete words, i.e. with blank spaces will be given to the selected candidates. The meanings of the word will be announced and they are required to fill in accordingly.

Round 3 (Word till you drop): The selected candidates will have to come on the podium and will be given words which they are supposed to speak out loud. This will continue unless they misspell any single word. There will be a tie breaker round in case of a tie.



➤ **JAM- Just A Minute**

The participants were given a topic to speak on for a minute , given the conditions by the JAM Master , without violating the rules and making any semantic and syntactic error.

JAM masters:

- Rakshit Goyal
- Kriti Gena



➤ **AD MAD**

The participants were given a product to endorse and were judged upon their creativity, convincing and originality. The event was judged by Mr. Vinay, faculty of College of Art Science and Humanities.



### 9.3.2 Day 2 :Talk Session by Shraddha Bakshi, Sanah Rizvi

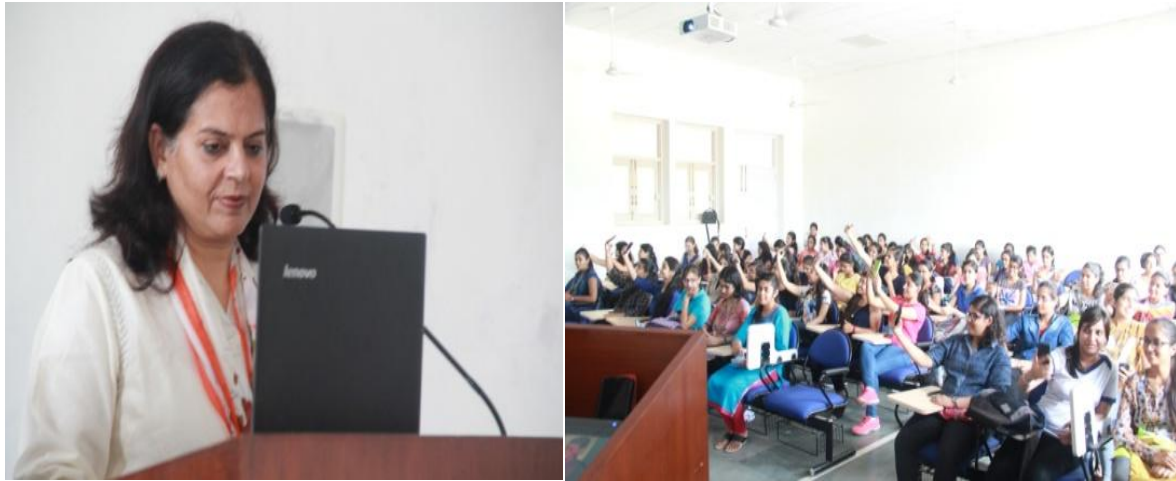
#### ➤ Talk Session by Shraddha Bakshi

Shraddha Bakshi is an active social worker who has been extensively involved in empowerment of women. Her karm-bhoomi was primarily in the Army where, in a span of 30 years she worked tirelessly for women literacy, health care and sanitation, education, livelihood and marital harmony. She touched the lives of thousands of families.

Besides Army, she has devoted the last 9 years in 'Save the Yamuna Campaign' under the NGO Yamuna Jiye Abhiyan in Delhi. She has managed a school for the under-privileged on the Yamuna bed and taught the disadvantaged children. Shraddha Bakshi recently joined the Project FUEL team to expand their footprint in the Hindi Reading belts of the country as the Chief Editor of the Project FUEL publications.

A prolific writer, blogger and story teller, she has edited a women's journal and translated books/ articles. A philanthropist wife to a General in the army, she has two lovely daughters, both settled abroad. The girls have taken on their mother- elder who is in film production and distribution in United States and the younger one, who is brand manager in a multi-national corporation in Hong Kong. Apoorva is also the business head of Project FUEL and is deeply engaged in building strategic alliances for the initiative. Srishti on the other hand has an initiative of her own called Project CrossBow aimed at creating public awareness against Rape, in which she will walk from Kanyakumari to Srinagar over 7-8 months next year.

She gave an enlightening talk session too the students narrating the stories of brave lady officers who fought all odds and conquered the world, she also encouraged the girls to join defence.



➤ **Model United Nations Conference**

Total participation for the Model United Nations conference was of 147.

Executive Board members:

1. Rakshit goyal
2. Kriti Gena
3. Nishant Kumar
4. Bhrigu Sharma
5. Himanshu Subodh
6. Himanshu Grover
7. Chinmay Sharma
8. Sumedh Rishi
9. Shivansh Ahuja
10. Nirankush Singh
11. Tejjinder Singh

Winners:

- Shivani Jinger- Best Photographer
- Abhineet Maurya- Best Journalist

Best Delegate:

- Ayush Choudhary
- Hitesh Bakshi
- Audita Bhattacharya
- Tanmay

High Commendation:

- Vaishnavii Singh
- Himshikhar Chamoli
- Shubham Gupta
- Medha Mishra

A draft resolution was passed in each of the committee after the 2 days conference.





➤ **Talk Session by Sanah Rizvi**

Sanah Rizvi is a writer, poet and psychology enthusiast. She has completed her graduation from The United States, at the University of Massachusetts. Sanah is an avid reader and the founder and president of the The Reader's Society, which is the first book club in her university. She was also the Director of Mental and Physical Health with the Student Government Association and has held various prestigious internships in New York City and San Francisco.

At Massachusetts, Sanah was selected to give a TEDx Talk and she spoke on The Extraordinary Nature of Being Ordinary. She advocates for the power of belief in personal transformation and is a keen follower of research on motivation, success and achievement.

Sanah is the Creator of The Psych Way, a unique initiative that makes ground breaking scientific research available and accessible to everyone. The Psych Way aims at arming individuals with the best scientific based resources and facts that will enable them to cultivate and nurture a mindset for success in their lives.

She gave a talk session "on being yourself".



➤ **Story Writing & Poetry Writing**



➤ **Talk Session by Priyank Aryan**

The poster is for a talk session titled 'Rhetorica'. It features a portrait of Priyank Aryan on the right side. The text on the poster includes:

*Rhetorica*  
TALK SESSION  
\*Author of 'I AM DEAD BUT MY HEART BEATS',  
an English Novella of Romance Fiction genre.  
\*\*Upcoming Novel is 'GOD & HIS GIRL-FRIEND'.  
Releasing in August 2016.  
\*\*Named as the 'BEST DEBUT AUTHOR 2014' by  
Aagman Literary & Cultural Organization (Delhi) in February 2k15  
\*\*Felicitated with the honour of 'PRIDE OF THE CITY' by  
BJP - Jamshedpur Unit (Jan 2k15)  
\*\*Interviewed exclusively by 'THE HINDU - Delhi' in February 2016.  
PRIYANK ARYAN  
4th September 2016 Venue: Mody University

➤ **Closing Ceremony**

The closing ceremony was attended by all the delegates, Prof. P.K. Ghosh (Chief Guest), Mrs. Uma Nirmal (mentor, Rhetorica) and Mr. N.S. Baruaole. The awards were given away to the winners, secretariat members and executive board as well.



## 9.4 KARUNA

KARUNA club is a social club of CET. It is working since 2009 for the welfare of underprivileged children. 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.

### 9.4.1 Cloth distribution to needy construction workers

Karuna club members collected unused and old clothes from students and faculties. These clothes were distributed to needy construction workers working in Mody University Campus on April 19, 2017.



### 9.4.2 Dance performance by students of Bal Seva Sadan



In the recently held cultural and technical fest “CORDINAZO’17” of Mody University of Science and Technology, students of a local school of Lakshmangarh “Bal Seva Sadan” performed dance

on several songs. This event was conducted by Karuna club under the guidance of club mentor Ms. Purnima Sharma. Eighteen students had performed on the very first day of the fest, which is on March 31, 2017. Students arrived in college campus at 8:30 am and performed at 10:45 am in main auditorium. Students were provided refreshment in college.

#### 9.4.3 Blood donation and Health Check-up Camp



One day Blood donation and health check camp was organized by Rotract Club, Karuna Club and NSS on March 26, 2017. The camp was inaugurated by President Prof. Suresh Advani, Dr. G. L. Rathi, Dr. V. K. Jain, Prof. D. K. Agarwal and Akshita Maheshwari. A total of 300 students and faculty members were registered for this camp, out of which 250 donated blood.



#### 9.4.4 Visit to Bal Seva Sadan on Republic Day

The members of Karuna club along with Faculty Coordinator Ms. Purnima Sharma celebrated the 68<sup>th</sup> 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 also presented a patriotic song

and recited verses to inspire the students. This was followed by distribution of refreshment to the children in the school and interaction with the students and teachers. The members finally returned after spending quality time with the children.



#### 9.4.5 Kasturba Seva Sansthan Visit

KARUNA, a social service club of CET, Mody University of Science and Technology visited the orphanage, Kasturba Seva Sansthan in the Bhadwasi region of Sikar on November 20, 2016 under the guidance & cooperation of Dean CET, Dr. V. K. Jain and Coordinator Student Affair, Mr. N. S. Baruaole. The total strength of children in the ashram is 62. The Ashram is also a home for the old people who have been abandoned by their family. The members interacted with the inmates 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. Two ceiling fans were donated to the orphanage by Ms. Purnima Sharma, Coordinator of Karuna Club, Mr. Divya Deepak and Ms. Shambhavi Prasanna, President Karuna, on the behalf of the club. 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.



### 9.4.6 Independence Day Celebrations

Karuna members went to Bal Seva Sadan like every year on 15th August to celebrate Independence Day with kids. We conducted quizzes and sports events. Refreshments were distributed among the kids.



### 9.4.7 Azadi ke Rang

A drawing competition was organized by KARUNA club on August 22, 2016. The theme was Life and history of icons of freedom struggle. Total 39 students from Mody School, CET, CAD and CLG participated in this event. The event was judged by Mr. Vikrant Sharma and Ms. Sheena Kohli. First prize winner was Ms. Priyanshi Beriwal from Mody School and 2<sup>nd</sup> winner was Ms. Asmita Vadnere from CLG. Cash prizes were awarded to them.



Dr. V. K. Jain, Dean CET with participants and coordinators

## 9.5 UTKARSH

Student chapter of the Computer Society of India in Mody University, organised a workshop on 'Cloud Computing' under the valuable guidance of Mr. S. K. Vasistha. It was a 4-day event from February 4-7, 2017 scheduled between 9:00 am- 5:30pm.

Nearly 52 B.Tech students from all the four years participated in the workshop and were trained by Mr. Ashutosh Singh from the AdHoc Labs. The workshop was aimed at making the participants familiar with the cloud computing technology and Linux.

Some of the contents covered in the workshop were-

- High level introduction of Linux and its internal architecture
- Linux device management
- BASH shell scripting
- Hard disk partition management
- Introduction to cloud and its components
- High level introduction of SAAS and IAAS

The participants were also provided with the handouts and a CD for future references.

The event concluded by a vote of thanks from Mr. S.K. Vasistha and a certificate distribution ceremony which was also attended by Mr. Anil Kumar, HOD (CSE). We got great feedbacks from the participants and the workshop proved to be a huge success.

## 9.6 ENGINIUM

ENGINIUM is the literary society of CET which comprises eight teams and works for the college magazine.



The last academic year started with the orientation program of ENGINIUM on August 23, 2016. This is an annual event for acclimatizing the fresh batch of students with the norms and flavour of the society ENGINIUM. The orientation program however was preceded by a technical quiz the day before i.e. August 22, 2016 by the Technical Team of the society.



Recruitments for different teams of the society started on September 27, 2016 and continued till September 31, 2016. New students were selected for different teams of the society viz. English, Hindi, Photography, Journalism, Creative, Technical and Marketing.

This year marked the beginning of the CET newsletter and the sole responsibility for the same was upon ENGINIUM. ENGINIUM was proud to have published the monthly newsletter for CET for every month during this semester. All the happenings of CET were recorded in these monthly newsletters.

## 9.7 SPARK

### 9.7.1 One day educational industrial visit to Wind World India Limited, Sikar

The department of Electrical Engineering organized a one day Educational Industrial Visit to **Wind World India Limited**, Sikar on September 15, 2016 for Electrical Engineering students. Main purpose for this visit was to become familiar with industrial environment and to get practical knowledge of electrical power generation and distribution by wind energy which is one of the most rapidly developing resources at present. The visit was organized as per Mody university guidelines and with the prior permission and guidance of Dean-CET, Dr. V.K. Jain and Head Electrical Engineering, Dr. Sudhir Y Kumar.

Total 37 students started from the college for visit at 10.00 am. The breakfast was served to all staff members and students in the bus. In the substation, Asst. Manager of power Grid division Sikar delivered very good and informative lecture on different scheme of distribution, single line diagram of substation with protective equipments. It was a very good interactive session. Students cleared their various doubts. He gave the satisfactory answers to different questions raised by students. The students also got a chance to look at the windmill towers from the inside. They were also shown the control room where the officers explained how the generation is monitored on a regular basis with the help of PLC and SCADA software. The technologies used at WWIL were advanced and up to date and were very useful for the students to increase their practical knowledge. From this visit, we earned practical knowledge about Electricity generation from the wind energy resource. About 45 students were benefited from this visit as they got chance to discussion with assistant engineers working at Substation.



### 9.7.2 BONNARRO – Fun Event

This event was organized on September 29, 2016. It included four events which were conducted on topics as under:

#### Event 1 – Treasure Hunt + Paper Dance

Team:- (a.) Nitika Tetarwal-EE(3<sup>rd</sup> year)  
(b.) Saroj Poonia-EE(3<sup>rd</sup> year)

#### Event 2- Quiz (technical + Series Based + Bollywood)

Team:- (a.) Charika Singla-EE(3<sup>rd</sup> year)  
(b.) Parul Tiberwal-EE(3<sup>rd</sup> year)

#### Event 3- Mad Ad

Team:- (a.) Renu-EE(3<sup>rd</sup> year)  
(b.) Kartika Parihar-EE(3<sup>rd</sup> year)

#### Event 4 – Pic O Mania

Team:- (a.) Harshita Bhindha-EE (3<sup>rd</sup> year)  
(b.) Shikha Saini-EE (3<sup>rd</sup> year)

The events were open to all the colleges and there were many attractive prizes were given away. Around 60 students participated.



## 9.8 BEACON

With the commencement of the New Year, in the month of August, an orientation was held to motivate the students to actively enrol in various societies. Under the supervision of General Secretary Ms. Nimisha Shrivastava, who took the initiative to give a presentation through Prezi. The presentation highlighted the past achievements of the society and the future goals. Various circuits which were previously made by the society members were shown to the newly admitted students. The student's response was great and many of them came for the recruitments which consisted of a written objective paper followed by a personal interview.

### 9.8.1 Official Orientation

Beacon being the official electronics and electrical society of CET, presented its agendas and vision to the students of first and second year on the official orientation held on August 12, 2016. The orientation presentation included what BEACON as a society stands for, what we have to offer, and how we help build the personalities of fellow members.

The recruitment procedure in BEACON had 2 rounds: the written exam and the personal interview round. The written exam was held on August 29, 2016 and the personal interviews were held on the August 31, 2016 where the shortlisted students interacted with the heads of the society.



Students attending the Orientation

### 9.8.2 EC Workshop

Beacon every year organises a two day EC workshop for first year. In this workshop beacon members except first year make sure that they provide maximum knowledge about the basic electronics to the first year both in practical and in theory. It was held on September 13-14, 2016 from 4:30 pm to 7:30 pm in the electronics laboratory.

Topics covered in this workshop are as follow:

1. Basic introduction to electronics and its components
2. VI characteristics of junction diode and zener diode
3. Half wave rectifier with and without capacitor.
4. Full wave rectifier with and without capacitor.

5. Clipper and Clamper.
6. Soldering and De-Soldering.

**DAY 1:**

On September 13, the above topics were covered theoretically. The basic knowledge of every topic was provided thoroughly. After the topics were covered, the doubt session was held where the students asked and cleared their respective doubts.

**DAY 2:**

On September 14, students were taught the practical use and way of the above mentioned topics. Starting from basic knowledge of resistors to breadboards and then to making of simple circuits to comparatively complicated circuits were taught. After circuit making they were taught soldering and de-soldering.



Glimpses of EC workshop

### 9.8.3 INNERVE

Every year the birthday of Mokshagundam Visvesvaraya, i.e. September 15, is observed as Indian Engineer's Day. On this auspicious occasion we, the members of BEACON, organised our annual event, INNERVE (Innovation in our Nerves) from 10:30 am to 1:45 pm in room no. 31 NFET. The event was attended by engineering students and faculties from all branches. The event constituted of technical presentations and quizzes, apart from other non-technical games like tongue twister, riddles, reverse spell bee, etc.

We also had presentations by BEACON members. Ms. Neha Agarwal, ECE 3rd year, gave a presentation on Cyborg, followed by a presentation by Ms. Rama Choudhary, ECE 3rd year, on Chatbot. Ms. Nishita Singh Parmar, ECE 3rd year, then informed everyone about the use of technology in armed forces through a short presentation. Ms. Himangi Gopal of ECE 2nd year spoke on 'augmented reality'.

This was succeeded by technical quiz, riddles, reverse spell bee, tongue twister in which the students participated actively. The winners of various games were rewarded by our mentor and team BEACON.



Dr. Rajeev Pourush (Mentor) presenting Mr. N. S. Baruaole with a token of appreciation



Prof. N. K. Joshi with Prof. P. K. Ghosh



Team BEACON members with Mentor, Dr. Rajeev Pourush

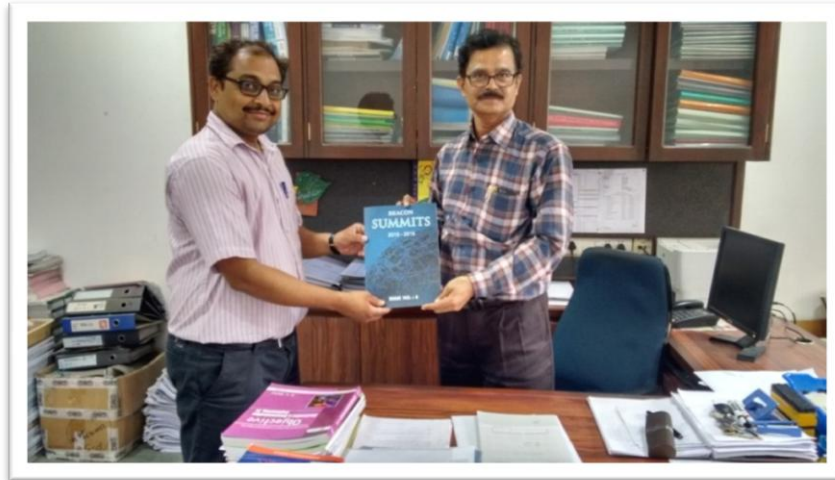


#### 9.8.4 Distribution of summits issue no. 6

BEACON distributed the 6th issue (for year 2015-16) of technical magazine “SUMMITS” to all the students of current 2nd year, EC students of current 3rd, 4th and 5th year (BT-MT).

The magazine was also presented to the honourable President, Dean CET, Head-ECE department and Coordinator–Students Affairs.

The magazine includes the technical articles by teachers as well as students of ECE. The faculty of other branches are also welcome to publish their articles in this magazine.



Mentor Dr. Rajeev Pourush presenting SUMMITS to HOD(ECE) Prof. P. K. Ghosh

### 9.8.5 ISKE -Interactive Session and Knowledge Enhancement Program

#### ➤ Non- Technical Topic

Members : Miss Rashmi Karamchandani (1st year - EEE) and Miss Priyanka (1st year - ECE)

Topic : Myth Busters

In their presentation, they told about the stories and myths associated with the famous historical places and incidences. Several places like 'Shanivar Bada' and 'Bhangarh' were covered in the presentation and the stories associated with them and incidences people faced at those places were told.



Miss Rashmi Karamchandani and Miss Priyanka giving presentation on Myth Busters

➤ **Technical Topic**

Member : Miss Tavishi (2nd year - ECE)

Topic : Internet of Things (IoT)

In her presentation she explained about the latest technology Internet of Things (IoT) and the uses and benefits that the technology will provide to the society. Several ideas like how a mobile phone can be used to control everything in a home, universal remote, smart electronic equipments etc were discussed.

## 9.8.6 Circuit Making

### 9.8.6.1 Year wise projects

➤ **1<sup>st</sup> year**

**Project name:** Digital object counter

**Brief:** An object counter is used to count the number of certain objects present in a place and display the count on a 7 segment display. The circuit uses a sensor and senses the object when it passes in front of it. The sensor uses an IR emitter and detector that detects reflected IR light (from the object) and produces an output pulse. This pulse is counted and displayed on the 7 segment display.

**Applications:**

1. Visitor/customer counter
2. Vehicle counter in a parking space
3. Luggage/product counter on a conveyer belt

➤ **2<sup>nd</sup> year**

**Project name:** Temperature controlled automatic light switch

**Brief:** This circuit is used to control home AC appliances according to temperature. The automatic light triggers each time the temperature goes beyond a particular level (50 degrees). The temperature threshold can be adjusted by varying the variable resistor in the circuit. LM35 is used as a temperature sensor. For every degree rise it produces a +10mv output voltage. It compares this voltage with a set reference voltage. If the output voltage is higher than the threshold it triggers a relay which turns the bulb ON.

**Applications:**

1. Temperature sensor
2. If a fan is connected at the output it can be used as a temperature controlled fan.
3. Fire alarm (can be done by setting the threshold temperature at a high level)
4. Automatic Air Conditioner regulator

➤ **3<sup>rd</sup> year**

**Project name:** Automatic Irrigation System

**Brief:** The aim of this project was to develop an automatic irrigation system which measures the moisture of the soil and automatically turns ON or OFF the water supply system.

The circuit is based on a PIC microcontroller and a soil moisture sensor. The circuit consists of two prongs, which must be inserted in the soil, an LM358, which acts as a comparator and a pot to change the sensitivity of the sensor.

A soil moisture sensor can save upto 60% of water used in irrigation. This system would require very less human involvement once installed.

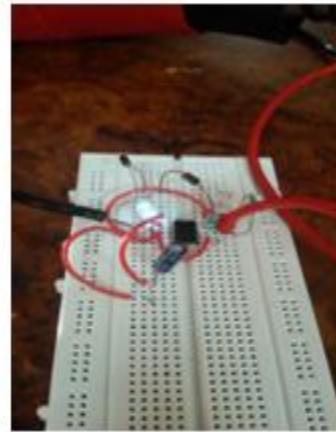
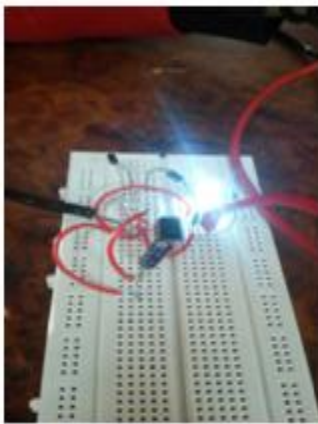
**Applications:**

1. The circuit can be used to measure the loss of moisture in the soil over time due to evaporation and intake.
2. Minimizes water waste and improves plant growth.
3. The project is intended for small gardens and residential environment. By using advanced soil moisture sensor, the same circuit can be expanded to large agricultural fields.

**9.8.6.2 Group wise projects: (Completed on the 25<sup>th</sup> of January)**

➤ **Group 1:**

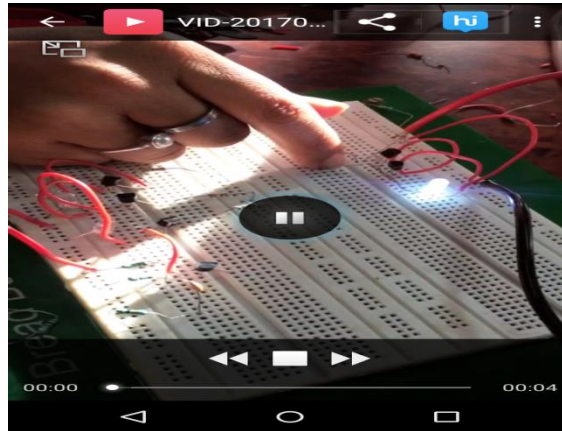
**Project name:** Dual LED flasher (555 timer based)



**Brief:** The aim of this project was to show the switching application of 555 timer IC. Flashing of the LEDs took place due to the continuous charging and discharging of the circuit capacitors. Decreasing the value of the capacitor increased the flashing rate as the capacitor charged and discharged faster. Similarly increasing the value of capacitors decreased the flashing rate. Voltage provided to the circuit controlled the intensity with which the LEDs were glowing.

➤ **Group 2:**

**Project name:** Touch switch



**Brief:** A touch switch is a switch which only needs to be touched by an object to operate. It is used in many lamps and wall switches as well as on public computer terminals. A touch screen includes an array of touch switches on a display. It is the simplest kind of tactile sensor. Two metal wires were used as sensors. Each time an object touched the wires, the LED glowed.

➤ **Group 3:**

**Project name:** TIC TIC sound generation using 555 IC



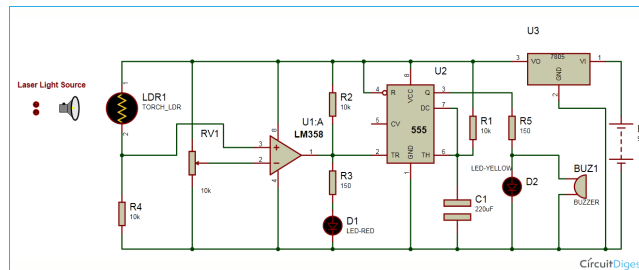
**Brief:** This circuit was designed to produce the sound of a ticking clock using 555 IC. Capacitors in the circuit continuously charged and discharged in timely pulses produced by the 555 IC and at the output a speaker was used which converted these periodic electrical signals into sound.

### 9.8.6.3 Group wise projects: (March)

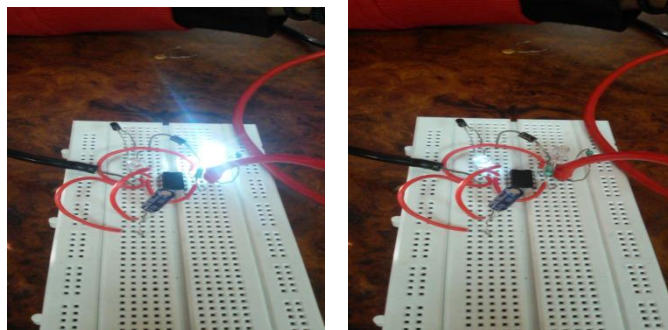
#### ➤ First Year

**Topic:** Laser Security Alarm Circuit

**Circuit Diagram:**



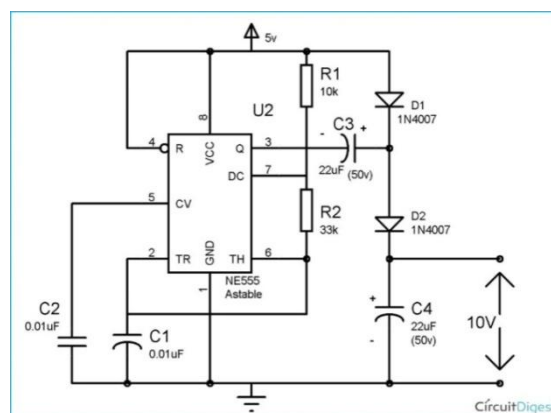
**Working:** In this system we have placed laser light and LDR facing each other, so laser light continuously falls on LDR. When someone crosses the laser light, due to this LDR loses the laser light and generates a different potential difference across the same comparator terminal. LDR is a light dependent resistor which changes its resistance according to the light. When light falls on the LDR surface, it reduces its resistance and when no light, its resistance becomes maximum.



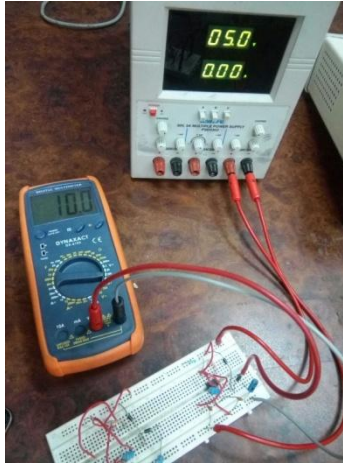
#### ➤ Second Year

**Topic:** Voltage Doubler

**Circuit Diagram:**



**Working:** A voltage doubler is an electronic circuit which charges capacitors from the input voltage and switches these charges in such a way that, in the ideal case, exactly twice the voltage is produced at the output as at its input.

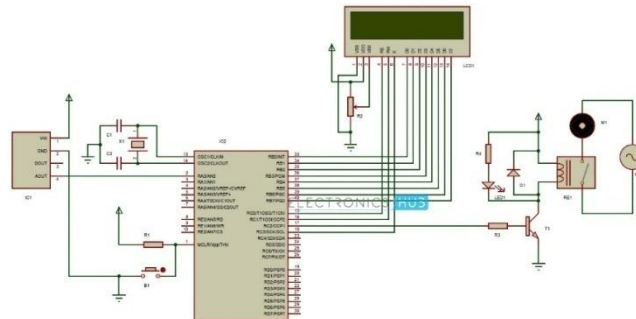


Output of Voltage Doubler circuit

### ➤ Third Year (Under Progress)

**Topic:** Auto Irrigation System using Soil Moisture Sensor and PIC Microcontroller

#### Circuit diagram:



**Working:** The idea of the project is to implement an automatic irrigation system by sensing the moisture of the soil. The system is also designed to warn when the moisture is very high than the threshold and the soil is too wet, which is dangerous for the plant.



### 9.8.7 Eminent Talk

On February 23, 2017, BEACON organized an eminent talk session by **Prof. A.B Chattopadhyay**. The topic of this session was '**Electromagnetic Theory**'. He explained the basic principles of EM theory.

He made audience understand the need of usage of Laplace Transformation and Fourier Series and their applications. He threw some light on EM theory that covered basic principles of electro magnetism, electrostatics, magnetic fields of steady current, motional emf and electromagnetic induction.

At the end, Prof. was given a sincere vote of thanks by Head-ECE for coming to our institute and was given a deep sense of appreciation for inculcating his knowledge and intense research on this topic.



Prof. P.K. Ghosh welcoming Prof. A.B. Chattopadhyay



Prof. A.B. Chattopadhyay delivering talk

### 9.8.8 International Conference

The very next day on February 24, 2017 our college conducted International Conference on Renewable Energy and we got an opportunity to interact with **Prof. J.B. Kesari**.



BEACON member interviewing Prof. J.B. Kesari

## 9.9 XPERIA

### 9.9.1 Treasure Hunt

XPERIA Society organized Treasure Hunt Event in College of Engineering and Technology on September 24,2016. Treasure hunt is one of many different types of games with one or more players who try to find hidden objects or places by following a series of clues. Treasure hunt games may be an indoor or outdoor activity. Outdoors they can be played in a garden or the treasure could be located anywhere around the world.

The event consists of two rounds. Total 64 participants in 16 teams with team size of four participated in the event. Rounds Description of the event is as follows:

#### Round 1: The Reverse Spell Round

In the first round, one of the team members of each team have being given a word. The player has to spell the spelling of that word in reverse order in 30 seconds. If the player spells correctly in the given time, their team will go to the next round. If the player fails to spell correctly in 30 seconds, their team will be out of the game. All 16 teams participated in first round and 10 teams were selected for next round.

#### Round 2: The Treasure Hunt

In the second round, selected teams were given the start clue. There were total five clues. They had to find all the five clues. The team who will find all the five clues first, will be the winning team. The winning team had been awarded with the cash prize.

**Winner:** TEAM D (Supriya Jain ,Shubhi jain, Lonika Vyas, Mili)

### 9.9.2 Poster, Model and Project Exhibition in ICRRESG

XPERIA Society organized an exhibition of Poster, Model and Project in College of Engineering and Technology during two days International Conference on Recent Trends in Renewable Energy and Smart Grid on February 24-25,2017. The objective of Exhibition is to promote interest in Science and Technology, encouraging scientific and technological creativity among students and inculcating a sense of pride in their talent, encouraging problem solving approach and developing appropriate technologies. All the posters were based on the topic of the conference with various ideas painted on sheets. Total 45 participants with team size of two participated in poster making competition. All the posters were displayed on various boards in ABB Lobby. Judgment of this competition was made on various criteria which are as follows:

- Poster layout (Display attributes) - 10 marks
- Content -10 marks
- Clarity- 10 marks
- Originality-10 marks
- Interaction with poster viewers-10 marks

**Judges:** 1. Mr.N.S.Baroule (College of Engineering and Technology)

2. Mr. Pinaki Ghosh (College of Engineering and Technology).

**Winner:** Opel Nahar and Ritika Verma (CSE II<sup>nd</sup> Year)

Another category for exhibition was model, based on various topics like Renewable energy, Water purification process, Solar Cooker, Smart City, Hydro power plant, wind energy plant, steam power generator, piezo electricity, conversion of energy resources and may more. Total 26 students participated in 10 teams. Judgment of this competition was made on various criteria as:

- Model layout- 10 marks
- Relevance to Topic-10 marks
- Clarity-10marks
- Innovation-10 marks
- Presentation Skill- 10 marks

**Judges:** 1. Dr. Ajit Mangar (College of Architecture and Design)

2. Mr.Vikrant Sharma (College of Engineering and Technology)

**Winner:** Anmol Saxena and Neha Goyal (CSE II<sup>nd</sup> Year)

Students also participated in the project competition having category as software and hardware. In software category projects total 8 participants in 4 teams from college and 8 participants in 3 teams from mody school participated in competition. Various softwares like websites and apps on renewable energy were presented by the participants. In hardware category of projects 17 students participated in different teams. Projects presented in exhibition were like intelligent sustainable building, Automatic Street light, electricity generator by speed breaker, cooling tower and solar mobile battery charger. Judgment of this competition was made on various criteria as:

- Model layout- 10 marks
- Relevance to Topic-10 marks
- Clarity-10marks
- Innovation-10 marks
- Presentation Skill- 10 marks

**Judges:** 1. Dr. Rajeev Pourush (College of Engineering and Technology)

2. Mr.P.K.Bhatt (College of Engineering and Technology)

**Winner:** Neha Sahu(ECE IV Year)

All the winners were awarded by a trophy,certificate and cash prize of Rupees 1100 only and other participants were given certificate of participation.

### 9.9.3 Khoj'17

Khoj'17 is the event for personality development which was organised on April 11, 2017. In this event three rounds were organized to judge the overall personality of the participants. In order to boost the confidence of the winners cash prize is given. The event consists of three rounds. Total 21 contestants participated in the event. Rounds Description of the event is as follows:

**Round 1: AD-MAD**

In First round each participants has to give an introduction for one minute and half minute later each one has to act on a particular item chosen by them with the help of chits made by Xperia members. Ten were selected out of nineteen participants for next round.

**Round 2: JAM (Just a minute)**

In second round, extempore was conducted in which selected students have to speak for a minute on a particular topic given to them. Total five participants were able to stand for next and final round of the event.

**Round 3: RAT (Race against time)**

In third round, selected participants have to give the answer of the questions in minimum time, the one who gives the maximum answers in the given time leads. Following Race against time, a questionnaire round was also conducted whose combined score is calculated through which the winner of khoj event is selected.

**Winner:** Pratima (CSE I year)



## 9.10 PICTURESQUE

**Vision:** - To provide a supportive environment for students interested in photography to share their ideas, knowledge and passion for photography.

**Objectives:** -

- To learn and gain new experience by collaborating with other teams and by continuous working for the college.
- The club would help the members enhance their photography skills and help explore the possible opportunities for photography projects.
- The club would also organize photo-walks, workshops, and competitions and hold meetings and discussions.

**Faculty Mentor:** -Mr. Vikrant Sharma

([vikrantsharma.cet@modyuniversity.ac.in](mailto:vikrantsharma.cet@modyuniversity.ac.in))

Assistant Professor

Mechanical Engineering Department



**Major activities conducted in session 2016-17:**

S.No.	Year	Activities	Awards
1.	2017	<ul style="list-style-type: none"> <li>• Covered Cordinazo, Tech-Cult fest of Mody University, organized by CET.</li> <li>• Organized a workshop which was taken by Mr. Gaurav Mishra. The workshop covered basic and advanced topics of photography.</li> <li>• Conducted Snapquest- online photography competition. The pictures were judged by Mr. Gaurav Mishra.</li> <li>• Conducted photo-walks in which members were taught photography techniques like light trails. Also, portrait photography.</li> <li>• One week photography session which covered basics of DSLR, lightroom, photoshop and other related topics followed by a photo-walk.</li> </ul>	
2.	2016	<ul style="list-style-type: none"> <li>• IP (International Press) in Rhetorica- MUN organized by CET, Mody University.</li> <li>• Interviewed foreign internship students.</li> <li>• Conducted various photo walks to make students practice their skills with the team.</li> <li>• Participated in Cordinazo by setting up a photo booth and organizing a workshop on photoshop.</li> </ul>	<ul style="list-style-type: none"> <li>• Best Photographer (EDMUNDS MUN): Nandini Soni</li> <li>• Best Photographer (Rhetorica): Shivani Jinger</li> <li>• Winner of phone photography</li> </ul>

			<p>competition (Oneiros'16, Manipal University, Jaipur): Avantika Thakur</p> <ul style="list-style-type: none"><li>• Special Mention (Delhi Diplomacy Summit): Shivani Jinger</li><li>• Secured winner and runner up position in photography competition of Abhudyha, organized by College of Law and Governance, Mody University.</li></ul>
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## 9.11 ENACTUS

ENACTUS, Mody University was founded in March, 2017 in the mentorship of Dr. Puneet Kumar (Faculty Advisor) and Mr. N. S. Baruaole (Co-ordinator, Student Affairs). Moreover, the society also got registered with Enactus India in March itself. It has come a long way since then in a very short span of time. Being an International Non profitable Organization, the main aim of Enactus is to generate Employment for the BPL section of the society through sustainable projects keeping in mind the ecological factor, another aim is to improve the livelihood of people. Walking on the path of Enactus the aim of Enactus Mody University is to get the best out of its rural setting for the betterment of the BPL section of Lakshmangarh and nearby cities.

Enactus Mody for the same cause has come up with two projects:

1. Project Zothiya: 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 Laundry Pods, Mop Pods and Cistern Pods with the help of kitchen items and more. The Pods produced will be cheaper than the retailed products also it will be ecological due to the day to day items used. Our target market will be institutions and Restaurants 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.
2. Project Zohra: This projects aims for generating the employment for the unemployed artisans in the state of handicrafts Rajasthan. Under this project the artists will produce their handicrafts through papier Mache, tie and die paintings etc. Our market will be the craft fairs held in Delhi and Faridabad. We are currently in talks with Delhi Haat to get the work of our artists displayed there at a good price hence helping them to get permanent employment through orders.

A lot of progress has been made and Enactus Mody University will be representing these projects in the Enactus Nationals 2018 competing with the best universities in India. Each project will have only 3-4 people at the initial stage. Later on more widows and artisans will be added as we get a stable market hence making a change in the society and affecting the masses.

The business plan has been made for the same and Enactus Mody University has already received the confirmation of the donation of 10,000 from TechnoBridge Innovations Noida for the Projects. More Fund raising activities are in the stage of planning. The Widows for the Project Zothiya have been identified and the work with them will be started soon. Enactus Mody Promises to make a change to the backward lives of Lakshmangarh people.

## 9.12 PENUMBRA

Penumbra is a ubiquitous student group that focuses on a plethora of speaking events-*debating, extempore speaking, elocution, jamming, MUNing* etc. The members range from seasoned debaters to novices, wizards with words to reluctant speakers.

### 9.12.1 Group Discussion



Penumbra leaves no stone unturned when the personal development of its fellow members is put at stake. Taking the motive ahead, on August 25, 2016 the society organized a **Group Discussion** on the revered shlokas of *Srimad Bhagwad Gita*. A total of 10 members participated and demonstrated a blend of communication and listening skills. The event was conducted in 3 phases, comprising of two group discussions of 5 members each and one major group discussion, in which all the members participated. Each member was thoroughly examined and then reviewed on the points put forth during the discussion. In the end, star performers were awarded with a token of appreciation.

### 9.12.2 J.A.M.

It was held on October 2, 2016. Students blabbed all day, all night. The words pour out effortlessly, almost reflexively. How arduous a task can be to speak for just a minute with no pauses, 'uhms' and repetitions? New members had a mind boggling session trying to dodge their counter players ready to pounce on them at half-a mistake. With hilarious topics to speak upon- Rahul Gandhi is the best thing happens to India, India wins maximum gold in Olympics, A secret

passage leads to Hogwarts etc. The members were in animated discussions and arguments. They were repeatedly reminded of avoiding the RDH trap-Repetition, Deviation and Hesitation.

The winner of the event was Ms. Apurva followed by Runner-Up Ms. Sneha Agarwal. Ms. Soumya was Honorary Mention and Ms. Shatanshee was the Moderator.



### 9.12.3 History Remembers You

This event was organized on October 3, 2016 by Penumbra Committee. Adolf Hitler, Raavan, Pablo Escobar etc. have all been infamously called the most atrocious of the entire human species. They have committed barbaric, animalistic acts defaming human society. But accidentally or intentionally they have performed some noble deeds, no matter how rare. Speaking on behalf of the infamous personalities, Penumbra members justified why history should remember Mr. X for noble deeds.

The event's purpose was to bring out the white tint in blackened canvas. Students didn't intend to deny the heinous acts but wanted to hear the other side of the story as well.

The winner of the event was Ms. Muskaan Gupta followed by Runner-Up Ms. Anoushka Kapoor and Honorary Mention Ms. Aditi Saxena.



#### 9.12.4 Talk Session

This event was held on November 16, 2016. It was an in-house talk session in which each member of the society was free to choose any topic of their choice and express their views and experiences related to it. It happens with every one of us that at different situations of life we have different opinions regarding what we see, we hear, we face, but that opinion limits only till our hearts and minds. It never comes out just because of the fear we all have “How Will Others React To This?”, “Will they judge me?”, “Will they go against me?”, “Will they make fun of me?” and many other such questions.

Through this event students make it sure that every opinion idea of their will be respected. This event gave a platform to the society members to share their views and thoughts. PENUMBRA being a public speaking society offers another opportunity to the members to enhance their speaking skills through this event. Also this event helps them to know each other better.

#### How was the event??

The event was very successful with people coming with really good experiences and ideas. The best speakers among the participants were Saumya whose talk was on “Her low esteem issues” she described her life from the very early stage and how she achieved a great success in writing a book, what all problems she faced, and even after that didn't lose hope. Her talk was really commendable and students learned a lot from her. Next was Vidushi whose talk was really very powerful which could change the way of thinking of many people around us. She talked about “A Girl” her current situation in today's society, about their empowerment. Her talk was strong enough to change the mindsets of many stereotypes. And the last but not the least was Muskan Gupta who shared the experience of time that every student faces “the last 2 years of school” when parents just want to focus their ward on studies and expect them to stop participating in

other co-curricular activities. Her talk was on “Life is what you make it” which is a very well-known book and also the book which actually brought a great change in her and because of which her life is perfect now. She is fully satisfied with her life. Her talk had taught all students regarding how they can also have a satisfied life.

The event ended up with so many thoughts in each one of them and these thoughts were all which would definitely help them at some point of their life.

### 9.12.5 Talk Session

This session was the first one in the series of the in-house talk sessions at Penumbra in which each member was free to choose a topic of their choice and express their views and share the experiences they have had related to it. It was conducted in room number 32 of Acharya Brihaspati Bhavan on January 17, 2017. There are certain points in our lives when we really want to express ourselves but are hesitant to come up and share it with the world. If everyone just let the fear of what others would think of what they said affect them, there would be no sharing of new ideas, no innovation and no progress. This series of events is conducted keeping in mind that every opinion and idea is respected. This two and a half hour long session provided the Penumbra members with an opportunity to express them freely, leaving behind the fear of being judged.

In the talk titled ‘Happiness and What It Means to Me’, Ms. Pratima shared the source of her happiness. Through her words she made all to realize that true happiness comes from within and rarely depends on external factors. In the words of Albus Dumbledore, “Happiness can be found, even in the darkest of times, if one remembers to turn on the lights”. Ms. Anshul Agrawat talked about dancing and the kind of influence that it has over her life. For her, it is not merely a form of expression but an essential part of her very being. It has always been there for her, be it times of joy or sorrow. Then, Ms. Aishwarya Khandelwal expressed her views on ‘The Importance of Talking and Expressing Ourselves’. She held that there is no point in bottling up one’s emotions as it can be very harmful for one’s mental health in the long run and communicating exactly what we feel can go a long way in building human relationships.

A spirit of patriotism filled the air as Ms. Arpita delivered her talk on ‘Brave Hearts Never Back Down’. It was an inspiring verse and our eyes welled up as she described how the soldiers of our defence forces struggle day in and day to out, face hardships and survive under extreme conditions just to keep our countrymen safe. The freedom we enjoy today is a result of the efforts made them.

Soon the session came to a close, leaving us with a lot to ponder about. At the end, Ms. Aditi Saxena asked students what they really wanted in their lives. The future is full of insecurities and all they have is today. And though they might not even know what they seek from their lives and there is no guarantee of finding that out, it is okay. Sometimes, we just have to trust that things will work out. The session was indeed a learning experience for both the participants and the members of the audience. Through this session, Penumbra again acted as a platform for the members to enhance their speaking skills and get to know each other better.

### 9.12.6 Talk Session

This session was the second event in a series of in-house talk sessions organized by Penumbra. Each member was free to speak on any topic of their choice for about fifteen minutes. It was inspired by TED talks and was introduced to help students develop their spontaneous public speaking skills and express themselves more freely by overcoming the fear of speaking in front of an audience. The one-hour long session was held on January 18, 2017 in room number 32 of Acharya Brihaspati Bhavan.

As the famous saying goes, "Acceptance is the first step to recovery". Human beings are social animals and with that arises the need to accept and be accepted by others. Ms. Rachita Chawla, a second year student, talked about the same. She said that even though we may sometimes find it difficult to accept those who are different from us or hold completely different views, such a form of acceptance is important. She explained why it is so and also made us realize that whether we can accept ourselves for who we are is a lot more important than seeking approval from others. Audience listened attentively to the session

Ms. Aditi Singh spoke about the joy of reading and how books can transform one's life. She shared with students how she was able to inculcate the habit of reading and how the books she read constantly inspired her and kept her motivated even when she was going through some tough phases in her life. Her talk made students to see how books could indeed be one's best friends.

This was followed by Ms. Sonali who talked about putting prejudice aside and looking at life through brand new eyes. She held that whatever we observe is blurred by our own perception and it only by letting go of our preconceived notions can we get a better understanding of the true nature of things. Then, Ms. Stuti Anand shed some light on 'The Battle That Lies Within'. Conquering oneself may indeed be the hardest thing to do but, in the end, it is worth it. It doesn't matter how many times

we fall as long as we have the courage to get back up.

With this thought, students concluded the session. It was an amazing experience to hear everyone speak. The session, though a short one, provided students with an insight into the lives of fellow members and the issues that hold a lot of importance for other students. This event could not have been successful without the powerful speakers and an equally supportive audience.

### 9.12.7 Ted Talk Session

This event was organized by Penumbra; three videos of different genres were shown to the penumbra members on the projector screen. The two and a half hour long session was held on February 1, 2017 in ABB 32 of Acharya Brihaspati Bhavan.

Students began the session by playing the speech by the Member of the Parliament, Mr. Shashi Tharoor at the Oxford Union titled 'Britain Does Owe Reparations'. It talks about how India was a booming economy before the British set foot on the land. He concluded by saying that it is the realization that you have done something wrong, accepting your mistake and making an honest apology that is much more important than the question of how much is owed as compensation.

The second video titled, 'If Depression Were a Boy I Dated' by Nandita Kochar, Kommune, New Delhi is an open letter to depression. She inspires all by using a tough phase of her life to make a beautiful piece of art in the form of poetry.



The third and the final video was a TED talk by Cameron Russell titled 'Looks Aren't Everything'. It gave members an insight into the life of a model, the world beyond the glitz and glamour as it is portrayed by the media. Heavily airbrushed and photoshopped. Accepting ourselves for who we are and being comfortable in our own skin. She asked us why we limit our concept of beauty to how we look. True beauty lies within. Rather than how we look or what we wear, in the end, what should really matter is who we are as people.

Ms. Shataanshee Swaroop, one of the core members of Penumbra then addressed the audience and through her inspiring speech she made students realize that no one can drag them down. It was time students stopped getting in their own way.

At the very end, students discussed their strengths and points where they must work upon to be able to communicate more effectively and become better orators.

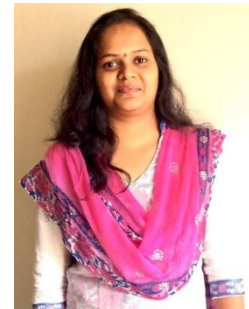
## 9.13 ANAHATA

**Vision:** Anahata is the cultural society of Mody University of Science and Technology. This society has many subdivisions. Anahata includes three different dance teams. Black pearls-the contemporary dance team, Hoofers-the western dance team and Silver Steppers-the Indian classical and Bollywood team. Anahata also includes Goonj-the singing team, BIS-the drama team and Essence- fashion team. The vision is to nurture the talent of an individual. Every student in this University has some hidden talent in her; we find out the best in them and provide a platform to showcase their unique talents. The goal is to simply entertain people with what we have and to provide a platform to explore oneself.

### Objectives:

- Encourage students to come out of their space and showcase their talent to the world.
- Provide the best possible platform to showcase their talent.
- Entertain our university on different occasions.
- Represent our university in different parts of nation.

**Name of Faculty Mentor:** Ms. Suneetha Rikhari  
Assistant Professor  
Electronics and Communication Engineering



### 9.13.1 INTERACTIVE SESSION 2016

ANAHATA-The cultural society of CET has conducted an interactive session for all the first year students. The event was conducted on August 25, 2016 in CET lobby area at 10 a.m. Interactive session gave a golden opportunity to all the first year students to showcase their talent in front of their faculty members, seniors and friends. Through this event they got to know about the official cultural society of their college. All the teams under ANAHATA performed in front of first year students so that they would know what are the teams in ANAHATA and what all we do and at the same time they could choose, which team they want to join in future. The event started with the melodious performance of Goonj, the singing team followed by some singing performances of first year students. Next in the sequence were Silver steppers. They gave a beautiful classical performance. Some students from first year came forward to showcase their classical moves and made everybody spellbound.

Next in the row was Black Pearls, the contemporary dance team followed by a comedy act by B.I.S, the drama team. First year students were also full of talent which could clearly be seen in

their dance and drama acts. Final performance of the day was given by Hoofers, the western dance team.

First year students were full of enthusiasm throughout the session. All the first year performances had been judged by mentor of ANAHATA, Mrs.Suneetha Rikhari and the list of winners is given below:

#### **DANCE:**

- Miss. Akankcha Apoorv (B.Tech CSE I Year) got the best dance performance prize
- Miss. Lisha Purbey (B.Tech CSE I Year) got the first runner up prize
- Miss. Priyanshi Chirania (B.Tech CSE I Year) got the second runner up prize

#### **SINGING:**

Best performance for singing was given to

- Miss. Tanushree Sharma (B.Tech CSE I Year) best performance prize for singing
- Miss. Ananya singh (B.Tech CSE I Year) best performance prize for singing
- Miss. Drishti (B.Tech CSE I Year) got the first runner up prize for singing

The whole event was very successful with great efforts of the mentor of society, all the team members and commendable enthusiasm of first year students.



**Silver Steppers:**

1. Won 1<sup>st</sup> prize in Group Dance Competition in All India Dance competition organized by All India Art and Cultural Society. ( November, 2016)



2. Performed in International Conference held in Mody University.( February, 2017)



3. Performed in LNMIIT annual fest VIVACITY'17.( January, 2017)

**Hoofers:**

- Group dance competition at LNMIIT
- International Conference
- Cordinazo '17



**Black Pearls:**

1. International Conference-2017



**Goonj:**

1. International Conference, 2017



2. FDC'16



**Essence:**

1. IIT Kanpur (Antaragini)



2. IIM Ahmedabad (Chaos)



3. LNMIIT, Jaipur



## 9.14 AIESEC

### 9.14.1 Orientation

The orientation was conducted for all the freshers to introduce them to all the societies in CET and to encourage them to take part in as many societies as possible.

In this we gave all new students a preview of AIESEC society experience; they were told about the past events conducted by AIESEC and what being an AIESEC member really means. There was participation of almost all the first years' students, around 120 students.



### 9.14.2 Recruitment Process

The recruitment process for AIESEC includes three steps/rounds; AIESEC form, group discussion and then personal interviews. In the first round the students fill the AIESEC form which includes basic questions about their likes and dislikes, opinions on specific issues, their life goals etc. The students shortlisted on the basis of their forms then face the group discussion round where they are divided into random groups and are given a topic to discuss among themselves. The students are judged on the basis of their presentation skills, speaking skills, personality and how well they are able to put up their opinions. The shortlisted students then give personal interviews where they finally get shortlisted and the final list of students who get the opportunity to be a part of AIESEC is then declared.



### 9.14.3 First Society Meeting

In the first meeting all the new members and old members are introduced to each other and get an opportunity to interact and get a feel of the other person. The new members are explained in detail the working and responsibilities of AIESEC and its internal teams. The students then are assigned different internal teams on the basis of their skills and interests.



### 9.14.4 Global Entrepreneurship Introduction

Internal meeting for all AIESEC members in order to explain to them the different types of internships offered and about the Global Entrepreneurship opportunity where the students get to go on international internships in their respective fields for six weeks. Planning of events to promote and spread awareness about this opportunity.



#### 9.14.5 Game Event for Global Entrepreneurship

A game event was organized for promoting global entrepreneurship opportunity. There were a total of 6 games to be played individually or in groups. Each game was in some way related to global connectivity. Pamphlets containing information about various opportunities were distributed during different game events, before the start of every game the audience were asked to answer some questions.

There was participation of around 40 students excluding AIESEC members (around 65 students including AIESEC members).

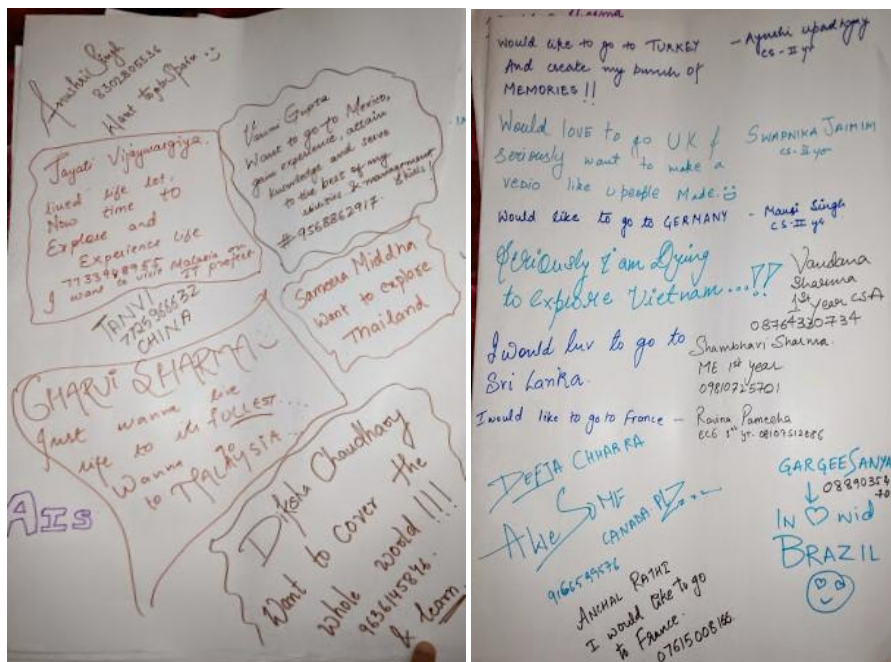


### 9.14.6 Meeting for event planning for the semester

A meeting in the new semester was organized in order to plan all the events to be conducted in the semester. A lot of ideas were discussed for different events which could not materialize due to some reasons. The different tasks for all teams were allotted and the meeting was adjourned.

### 9.14.7 Induction seminar

An induction seminar was conducted by AIESEC members for all the students of the university in order to explain to them the details of the process of applying for the international exchange and to clear and doubts or problems regarding the same to the students. During the seminar many activities were also performed including one in which the participating students were asked to write down the countries they wish to intern in.



## 10. OTHER EVENTS

### 10.1 First Year Induction Day Program

The induction program-2016 (**ABHINANDAN-2016**) for the newly admitted students of CET was organised in the Mini-Auditorium of the Mody University, Lakshmangarh. All the students received a warm welcome from the college staff, faculty members in a traditional manner and by presenting them with a rose bud by senior students. The auditorium was completely occupied by enthusiastic students and parents. The programme started with the lightning of lamp and Saraswati Vandana.

Prof. V.K. Jain, Dean, CET presented the inaugural note and gave a very motivating lecture asking the students to identify their talent and excel in the same as they are about to start the new journey of their life.

Then a complete brief about various departments was given by respective HODs and in charges so that students became more acquainted with the system of the college. All the expectations, rules and regulations were clearly explained. They shared their academic experiences to show them the path they need to adopt in order to become successful engineers. Head of Department of CSE, Prof. Anil Kumar briefed about the Computer Science and Engineering department. Prof. P. K. Ghosh, Head of ECE Department enlightened audience about the activities of Electronics Engineering Department and Bio-Medical Engineering. Head of Mechanical Engineering Department Mr. N. S. Baruaole addressed the gathering and discussed about mechanical engineering department that Mechanical Engineering involves the application of heat, force, design of mechanisms and machine elements and manufacturing. HOD of Electrical Engineering Department, Mr. Sudhir Y. Kumar highlighted the importance of electrical engineering. Prof. P.P.Bhattacharya explained the students and audience about the library management system being used in CET.

GM, CDC highlighted the students regarding 100% placements and multiple offers bagged by pass out batch. He also informed the students about various trainings and collaborations of the university and CET.

The vote of thanks was proposed by Mr. Atul Kumar, coordinator, first year and afterwards refreshments followed. Induction day programme was well received both by Students and Parents.





## 10.2 Founder's Day Celebration

### 10.2.1 Eminent Talk by Dr. Nanditesh Nilay

On the first day of Founder's Day Celebrations, January 22, 2017 a talk by the renowned speaker Dr. Nanditesh Nilay was held. Dr. Nilay is an Image Consultant, Motivational Speaker and a Change Expert. He is heading TRANC (Training requirements & New Concepts, a behavioural and attitudinal training company. He is also the Secretary of Indian Society for Training & Development, Delhi Chapter-New Delhi. The talk was about "Value based Leadership". Dr. Nilay enlightened the students about values essential for shaping up a personality in various aspects of life. The talk was followed by a brief query segment, where Dr. Nilay answered the queries of students and faculties. At the end of the talk, Dr. Nilay was presented with a token of appreciation by our chancellor Shri R. P. Mody.

### 10.2.2 Discourse on the Upanishadic Philosophy

On the second day of Founder's Day Celebrations, January 23, 2017, Swami Prakashananda enlightened the students about the journey of the inner self. Swami Prakashananda is the founder and Acharya of Chinmaya Mission. Swami Prakashananda was born in California, Trinidad and Tobago. While studying for a bachelor's degree in political science and philosophy from York University in Toronto, he met Swami Chinmayananda during Chinmaya Mission's Jnana Yajna. He soon joined Chinmaya Mission started studying the scriptures at Mumbai in 1991. Swami Prakashananda discussed the association of Upanishad with the voyage of inner self. The symposium benefited both the students as well as the faculty members.

### 10.2.3 CONVOCATION-2017

Mody University of Science and Technology conducted the Convocation Ceremony in the state-of-the-art Auditorium (Swami Haridas Sabhagar) in its campus at Lakshmangarh on January 24, 2017. Mr. B.S. Chatilan, Chairman, Law Commission of India, graced the occasion and delivered the Convocation Address. All undergraduate, postgraduate and Research scholars who had completed all the requirements for the award of the Degree in the year 2015-16 were invited to the event along with their parents. The ceremony ended with hundreds of students throwing their graduation caps in the air with ecstasy and beautiful memories being made.

### 10.2.4 Sangeet Sandhya: A Lyrical Evening

The Guptas, namely Kush Gupta. And Anuradha Gupta, the sensational husband-wife duo along with their son Ankush Gupta, the young generation heart-throb, were invited to mark the celebration of a magnificent fiesta of Mody University. The gala night was all full with melodious music with a touch of enchanting rhythm and captivating charm. The vibes around tell a beautiful tale, which is truly unforgettable. The audiences were bound to tap foot on the melodious rhythm

and their blend of cosmic tune and divine music. From the early 70s to present Bollywood tunes; from old to new, they had a separate collection for each in the auditorium. Each could relate with their taste of music. They were presented with a shawl and memento as a token of appreciation by the Dean, CET - Dr. V.K.Jain.

### **10.2.5 Eminent Talk by Mr. Ajay Agarwal**

On the fourth day of the ostentatious celebration of Founder's Day of Mody University, a talk by Mr Ajay Agarwal, a leading proponent of corporate training was held. Mr. Ajay Agarwal is an MBA with striking 18 years of corporate exposure as marketing and HR-Head. Indefinably, his credentials as HR interventionist were unquestioned. He has also launched a string of 30 mentoring programmes in companies like:

1. Aditya Birla Group of Companies
2. Tata Consultancy Services (TCS)
3. ITC Ltd. and many more

A huge crowd of students and teachers had gathered for this event. He enlightened the audience with his talk on VIJAYI BHAV-THE STEPS.'

His intriguing address had surely set a platform and his session was full of enthusiasm and valuable knowledge. And he was worth of the title conferred upon him, "TURNS ORDINARY INTO EXTRAORDINARY".

### **10.2.6 Kavi Sammelan**

Faculty members and students of CET attended tile Kavi Sammelan in the Swami Haridas Sabhaghar (auditorium) on January 25, 2017. The event was graced by five eminent and well known poets from different parts of the country. The evening was filled with laughter and the atmosphere was cheerful. Valuable messages on patriotism and "protecting the girl child" were conveyed by the guests in the form of poems and pros.

### **10.2.7 Republic Day Celebrations**

Mody University of Science and Technology was a prominent participant in the republic day celebrations of 2017. The event took place in front of Mody School where the tricolour hoisting took place on a Thursday morning. Students of CET took part in the march past and a vast contingent 30 students honoured the tricolour with their disciplined march. Following the march past, several dance performances were showcased by different faculties and students of CET presented a striking performance outlining the life of a soldier in battle. They were appreciated and applauded for the same and the day ended with smiles and patriotic sentiments in everyone's hearts.

### 10.3 Diwali Milan

ANAHATA-The cultural society of CET has organized Diwali celebration event DIWALI MILAN for the first time in CET. The event was conducted on October 22, 2016 in ABB lobby area from 2:30 PM to 6:30 PM.

The students actively participated in various competitions conducted by ANAHATA. Around 18 teams participated in Rangoli Competition and won prizes. The Rangoli team made the main entrance of ABB building colorful with different Rangoli patterns. The Diya Making team also made equal efforts to make beautiful diyas and won prizes.

The cultural event was the highlight of the celebration. The event was started with Ganesh vandana by silver steppers – Classical dance team of ANAHATA. They gave a beautiful classical performance. Some students came forward to showcase their classical moves and made everybody spellbound. Next in the row was GOONJ the singing team of ANAHATA who surprised everyone with their singing talent. Few teachers also joined the singing team to cheer the students and expressed their joy. The final performance was given by Hoofers the western dance team of ANAHATA followed by the prize distribution to the winners of various competitions.

The Dean of CET Dr. V. K. Jain shared his memories and gave his best wishes for Diwali to all the staff and students. Finally in the closing ceremony, Ms. Suneetha Rikhari, Assistant Professor and mentor of ANAHATA delivered the vote of thanks.

The celebration was ended up with Lakshmi Devi aarti and firing of crackers.





## 10.4 Alumni Meet

An alumni association for the University was formed under the guidance of GM CDC, Mr. Sudhanshu Sinha and Dean CET, Prof. V.K. Jain earlier this academic year. The alumni association thus formed organized University level alumni meet was held on May 13, 2017 in New Delhi. The meet was jointly organized by the constituent colleges and Career Development Cell of Mody University of Science and Technology and was held in India Habitat Center, New Delhi .

The alumni meet was marked by the presence of President, Mody University of Science and Technology, Deans from different Colleges of the University, GM CDC along with his team and the alumni coordinators of different colleges.

The meet started with lightening of the lamp and University theme song. After the President's address and messages from different Deans, the alumni shared their experience in Mody University. There were alumni even from 2004 pass out batch. The alumni were visibly nostalgic and were looking forward for another meet of the kind.

It was decided that there would be different alumni chapters in different cities across India; the first being started with the Delhi chapter.

The meet was marked with a fantastic lunch and reminiscence of yesteryears. The alumni members were ready to extend their helping hands towards the development of the University. GM CDC promised that there would be more alumni meet of the kind in near future.





## 10.5 Project Based Learning (PBL)

**Objective:** Project-based learning (PBL) is a student-centered pedagogy that involves a dynamic classroom approach in which it is believed that students acquire a deeper knowledge through active exploration of real-world challenges and problems. Students learn about a subject by working for an extended period of time to investigate and respond to a complex question, challenge, or problem. It is a style of active learning and inquiry-based learning. PBL contrasts with paper-based, rote memorization, or teacher-led instruction that simply presents established facts or portrays a smooth path to knowledge by instead posing questions, problems or scenarios.

Thomas Markham (2011) describes project-based learning (PBL) thus: "PBL integrates knowing and doing. Students learn knowledge and elements of the core curriculum, but also apply what they know to solve authentic problems and produce results that matter. PBL students take advantage of digital tools to produce high quality, collaborative products. But at CET it was introduced by Dean CET for session 2016-17 spring semesters for the first time.

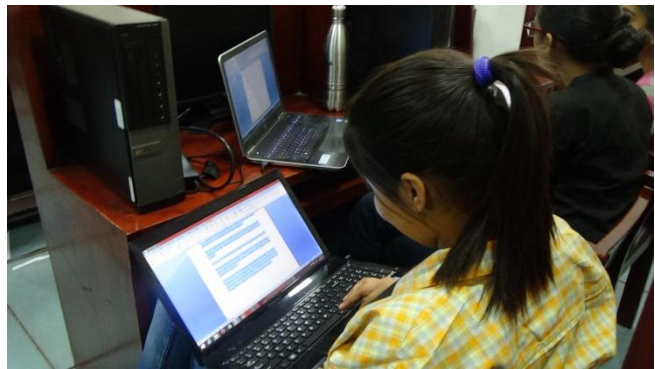
PBL team made a review on CET-PBL and student's feedback recorded, found following advantages to students:

- **Key Knowledge, Understanding, and Success Skills** - The project is focused on student learning goals, including standards-based content and skills such as critical thinking/problem solving, communication, collaboration, and self-management.
- **Challenging Problem or Question** - The project is framed by a meaningful problem to solve or a question to answer, at the appropriate level of challenge.
- **Sustained Inquiry** - Students engage in a rigorous, extended process of asking questions, finding resources, and applying information.
- **Authenticity** - The project features real-world context, tasks and tools, quality standards, or impact – or speaks to students' personal concerns, interests, and issues in their lives.
- **Student Voice & Choice** - Students make some decisions about the project, including how they work and what they create.
- **Reflection** - Students and teachers reflect on learning, the effectiveness of their inquiry and project activities, the quality of student work, obstacles and how to overcome them.
- **Critique & Revision** - Students give, receive, and use feedback to improve their process and products.
- **Public Product** - Students make their project work public by explaining, displaying and/or presenting it to people beyond the classroom.

**Advantages are not to limited students only, mentors also got lots of advantages of PBL in terms of Proper utilization of mentor knowledge for students, new learning, maximum utilization of time and innovation etc.**

Finally, it can be said that PBL has become successful and fruitful for all the participant of Teaching and learning system. Even it also can be said in future it will be beneficially for CET, MUT and other division of MUST and non- participant of Teaching Learning process.

**PBL reintroduced the teaching learning process; it has become now Teaching, Learning and Applying process.**



## 10.6 Internal Faculty Development Program

College of Engineering and Technology, Mody University has started a new activity– “**Internal Faculty Development Program**” from August 20, 2016 of Autumn Semester 2016-17. It is a systematic, comprehensive, well-resourced effort to help us to learn and grow as an intellectual teaching community. Faculty Development Programs (FDPs) are especially important in adapting faculty members to their changing roles in initiating and setting the directions for curricular changes. These programs can be a powerful tool to constitute a positive institutional climate and can range from basic orientation programs for new faculty members to postgraduate engineering education programs. Overall, the aim of this program is to support engineering educators in adapting to changing missions of teaching and to enhance the efficiency and performance of their teaching skills while improving work satisfaction and teaching confidence by developing good teachers.

The topic of presentation is general and evolving topic like Cloud Computing, E-Governance, Data Mining, Internet of Things and many more. The presentations of any two faculty members are organized on each working Saturday.

The schedule of events in **IFDP** is as follows:

S.No.	Name of Faculty	Topic of presentation	Date
1.	Dr. Yogesh Mishra	Orientation to IPR, Innovation & Entrepreneurship	20/08/16
2.	Mr. Pradeep Kumar	E-governance	20/08/16
3.	Mr. Kaushik Ghosh	Pervasive Computing: Present Trend and Future	27/08/16
4.	Dr. Dhananjay Mani Tripathi	Bhagwat Geeta	27/08/16
5.	Ms. Aditi Kajala	Testing of Logic circuits	17/09/16
6.	Mr. Pinaki Ghosh	Internet of Things	17/09/16
7.	Ms. Maumita Ghosh	Applications and challenges of Adhoc sensor network	10/09/16
8.	Mr. Suneet Gupta	image processing	10/09/16
9.	Mrs. Ranjana Thalore	Sensors and Applications	24/09/16
10.	Mr. G. Divya Deepak	Energy Crisis	24/09/16
11.	Dr. S.K. Jha	An introduction to RADAR and LIDAR remote sensing	30/09/16
12.	Mr. Vaibhav Nema	Harr Wavelet	15/10/16
13.	Prof. P.P. Bhattacharya	Effect of Electromagnetic Radiation on Human Health	15/10/16
14.	Dr. A. Senthil	Computational Epidemiology - A Common Man's Perspective	20/10/16
15.	Prof. Ashok Khanna	Project Proposals and Implementation	20/10/16
16.	Dr. Manju Khurana	Wireless Sensor Network	21/10/16
17.	Mr. Hitesh Jangir	Cognitive Computing/Wireless Internet: Security	21/10/16
18.	Mr. Manish Kakhani	Big Data in Everyday Life	10/08/16

19.	Mr. Gaurav Dhiman	Challenges for Nanoscale MOSFETs and Promising Nano devices: Multigate/Nanowire Transistors	05/11/16
20.	Dr. Harlal Singh	Synthesis of metal complexes with Schiff bases	05/11/16
21.	Mr. Vikrant Sharma	Technological Innovations – Past, Present & Future' in Automotive Industry	17/12/16
22.	Mr. S.S. Verma	Multi-path Routing Scheme in Mobile Ad-Hoc Networks	12/11/16
23.	Ms. Sunita Kumari	Hermetic Technology Transformer	29/11/16
24.	Prof. Anil Kumar Dahiya	Information Security	7/01/17
25.	Prof. N. K. Joshi	Indian Nuclear Power Program	12/02/17
26.	Mr. Satyajit Anand	Nanotechnology & its Application	12/02/17
27.	Mr. N. S. Baruaole	Internal Combustion Engines	14/01/17
28.	Mr. Niranjana Lal	The Benefits of Ethical Hacking	14/01/17
29.	Mr. Nisheeth Saxena	Quantum Computing Limits - Finite or Infinite	25/03/17
30.	Dr. Shamik Tiwari	VEDIC MATHEMATICS	28/01/17
31.	Ms. Purnima Sharma	Antenna for Mobile Communication	07/03/17
32.	Ms. Anshu Gupta	Low Power VLSI Design	07/03/17
33.	Dr. Puneet Kumar	E-Governance and You	18/03/17
34.	Mr. P.K. Bishnoi	ICT for Teaching & Learning	25/03/17
35.	Ms. Jeetu Sharma	WSN in Smart Grid	15/04/17
36.	Mr. Vikas Raina	Underwater WSN	15/04/17
37.	Ms. Suman Nehra	Electronic in Security Systems	22/05/17
38.	Dr. S.K. Vasistha	Machine Learning	22/05/17
39.	Mr. Atul Kumar	Introduction to Engineering Materials	27/05/17
40.	Ms. Shally Vashishtha	Plagiarism	28/05/17
41.	Ms. Suneetha Rikhari	Bio Sensors	28/05/17
42.	Ms. Ritu Tak	Green building	29/05/17
43.	Mr. Somil Jain	E-Governance: Exploring the Unexplored	29/05/17





## 10.7 CONFERENCES/ SEMINARS

### 10.7.1 International Conference

The College of Engineering and Technology, Mody University, Lakshmanagarh has organized a two days **International Conference on Recent Trends in Renewable Energy and Smart Grid-ICRRESG-2017 on February 24-25, 2017**. The conference witnessed the presence of a huge number of dignitaries, keynote speakers, faculty members, delegates, students and audiences across the world.

**The conference was inaugurated with auspicious Ganesh vandana, lamp lighting and garlanding ceremony of Maa Saraswati.** The inaugural function was attended by renowned and eminent persons Guest of Honour **Shri A. K .Jain, Managing Director, REIL, Jaipur, Guest of Honour, Prof. A. P. Mittal, Member Secretary, AICTE New Delhi, Prof. D. P. Kothari, Ex-Director I/C, IIT Delhi, Ex-Vice-chancellor, VIT Vellore, Ex-Director NIT, Nagpur, Director – Research-SBJMR, Nagpur, Prof. Bhim Singh, Dean-Academic, IIT Delhi, Prof. A. B. Chattopadhyay, BITS, Dubai campus, Prof A. Kulatunga, Purdue University, USA, Prof. R. A. Gupta, MNIT Jaipur, Conference Chairman -Dr. V. K. Jain, Dean-CET, Dr. Sudhir Y Kumar, Convener - ICRRESG-2017 & Head-EE dept-CET**, with more than 500 participants and delegates across the globe.

**The inaugural function started with university theme song presented by the CET students** and then proceeded with the felicitation of honourable dignitaries on the dais. Dr. Sudhir Y Kumar, Convener of ICRRESG-2017& HOD –EE dept-CET started the session by briefing about the conference. He explained about various events and technical sessions to be held during the two days conference. Dr. V. K. Jain, Dean-CET welcomed all the guests and dignitaries by presenting his opening remarks and welcome address.

The dignitaries on the dais released the Conference **souvenir**, followed by the **release of theBook titled “Renewable Energy and Smart Grid Technology” edited by Dr. V. K. Jain, Dean-CET and Dr. Sudhir Y Kumar**, Convener of ICRRESG-2017 &HOD Electrical Engineering Dept-CET. the **International Journal of “Computing and Engineering Research”** and Brochure for next international conference on “Communication, Networks and Security”.

Mody University has conferred **“Engineering Excellence Award”** to Prof. D. P. Kothari, Ex-Director I/C, IIT Delhi, Ex-Vice-chancellor, VIT Vellore, Ex-Director NIT, Nagpur, Director – Research-SBJMR, Nagpur. Prof. D. P. Kothari shared his profound knowledge in his speech. Prof. A. Kulatunga, Prof. A. B. Chattopadhyay, Prof. Bhim Singh, Prof. A. P. Mittal and Shri A. K .Jain has enlightened the delegates , faculty members and students, with their valuable words and shared their experiences. Dr. V. K. Jain, Dean-CET has presented shawl, shripal and memento as a token of remembrance to the guest of honour, Shri A. K. Jain and Prof. A. P. Mittal. The inaugural session ended with the vote of thanks by Ms. Suneetha Rikhari (MOC).

**Everyone was requested to proceed for high tea at the plaza outside Sangeet Samrat Tansen Sabhaghar.**





The next event organised was the **Keynote Address**. The address was attended by eminent researchers and delegates around the world. **Prof. Bhim Singh, Dean-Academic, IIT Delhi** addressed the gathering on "Latest Trends in Renewable Energy Conversion Systems". The talk dealt with the latest trends in renewable energy conversion systems consisting of (i) the grid

interfaced and standalone wind energy conversion systems (WECSs), and (ii) the standalone and grid interfaced solar PV generating systems.

**Dr. D. P. Kothari, Ex-Director I/C, IIT Delhi, Ex-Vice-chancellor, VIT, Vellore** discussed “Energy and Environmental problems facing the third world and their probable solutions for sustainable development. His excellency in deliberation of technical things in the right way was applauded by the audience.

**Dr. A. B. Chattopadhyay** gave lecture on “Smart Grid Control”. He explained advantages of smart grid over classical manual methods, mentioned inefficiencies of traditional grids in terms of security and synchronization problems, discussed smart sensing, smart measurement and non-linearity effects in wind energy generation. The presentations of the experts were followed by the felicitation of Dr. Bhim Singh with a memento by Dr. V. K. Jain. Dr. D. P. Kothari was felicitated with a memento by Dr. Sudhir Y. Kumar and Dr. A. B. Chattopadhyay was honoured with a memento by Dr. P. K. Ghosh. In the end, the vote of thanks was presented by Masters of Ceremony.

After a lavish lunch at the college dining hall, everyone proceeded for the technical session. The all six technical sessions namely **Best Ph.D. thesis Award Competition, Best M.Tech. Award Competition, Best Paper Competition (Open category), Best Paper Competition (Track 01: Solar Energy & Smart Grid), Best Paper Competition (Track 02: Wind Energy & Others), and Best Paper Competition (Track 03: Energy Efficient Systems)** are executed in parallel at various venues in Acharya Brahaspati Building of Mody University.



**Best Ph.D. Award Competition:** After a very competitive session the thesis by **Dr.Hitesh Panchal** of Kadi Sarva Vishwavidyalaya University, Gujrat entitled “Investigation on Performance Analysis of Passive Solar Still” was chosen for the best Ph. D Thesis Award. A special Jury Commendation Award is conferred upon Dr. Soumya Shankar Ghosh of Jadavpur University, Kolkata for his thesis entitled “Microstructural, Optical and Solar Factor Studies of Sol-Gel Based Semiconductor Films of  $M_{x-y}M'_yO_z$  ( $M= Cd/In/Sn$ ,  $M'= Cd/In/Sn/Sb$ ;  $x=2-3$ ,  $y=1-2$ ,  $z=3-5$ ) on Glass”. **A cash prize of amount 11,000 Rs. with trophy/memento and certificate is awarded to the Dr.Hitesh Panchal.**

**Best M.Tech. Dissertation Award Competition:** Total 08 candidates have presented their dissertation work. The session was chaired by Prof. N. K. Joshi, HOD in Nuclear Science & Technology and Dr. Shamik Tiwari, of Department of Computer Science and Engineering, CET and after a very competitive session the dissertation by **Mr. Lomash Chandra Acharya** of Govt. Engineering College, Bikaner entitled “Comparative Design & Analysis of Optimized Low Power RC5 Block Cipher” was chosen for the best M.Tech. Dissertation Award and, a runner award is conferred upon Ms. Raksha Goyal of M.B.M. Engineering College, Jodhpur for his dissertation entitled “Maximum Power Point Tracking of A Stand-Alone Photovoltaic System Using Particle Swarm Optimization”. The winner and first runner are awarded with cash prize of Rs. 3000, and Rs. 2000, trophy and certificates.

**Best Paper Competition (Open category) (Faculty & Ph.D Scholar):** The chief guests of the session were Prof. A.B. Chattopadhyay and Prof. P.K. Ghosh . A total of 7 participants presented their research work in the session. The best paper award is given to the **Dr. Hitesh Panchal** of Kadi Sarva Vishwavidyalaya, Gandhinagarh, Gujarat for his research paper titled “Investigation on Evaluated Tubes Coupled Double Basin Solar still with Pin Fins”. He is awarded with cash prize of amount 2100 Rs. with trophy /memento and a certificate.

**Best Paper Competition (Track 01: Solar Energy & Smart Grid) (B.Tech./M.Tech Students):**

The session experts were Prof Ashok Khanna and Mr. Bharat Bharia. Total of 15 papers are presented in the session on various technical themes. **Mr. Suraj Panchal** is awarded with cash prize of amount 2100 Rs. with trophy/memento and a certificate for his paper on “Fabrication and analysis of solar milk pasteurization system”.

**Best Paper Competition (Track 02: Wind Energy & Others) (B.Tech./M.Tech Students):**The technical session was chaired by two illustrious and proficient dignitaries Dr. R. A. Gupta, Professor, Malaviya National Institute of Technology (MNIT), Jaipur and Dr. Sudhir Y.kumar, Head of department of Electrical Engineering, College of Engineering and Technology, Mody University. **Ms. Tunisha Gupta** of department of Nuclear Science in College of Engineering and Technology of Mody University supervised by Prof. R. K. Shivpuri has been conferred with Best Paper Award. The award including cash prize of Rs. 2,100/-, a certificate and a momento was awarded.

**Best Paper Competition (Track 03: Energy Efficient Systems) (B.Tech/M.Tech Students):**

the session was judged by Dr.Amit Mukherjee and Dr. S. K. Vasistha. There were 17 papers that were presented. A paper titled “A Review on Applications and Challenges in to Develop a Smart City” authored by Ms. Akanksha Shukla of CET, Mody University, Lakshmangarh, Rajasthan is

selected for best paper award. The paper titled “Energy Efficient Wallace Tree Carry Save Adder with One-Bit Hybrid Full Adder” authored by Ms. Madhu of CET, Mody University, Lakshmangarh is selected for a special jury commendation award. The award including cash prize of Rs. 2,100/-, a certificate and a trophy/memento has been awarded.

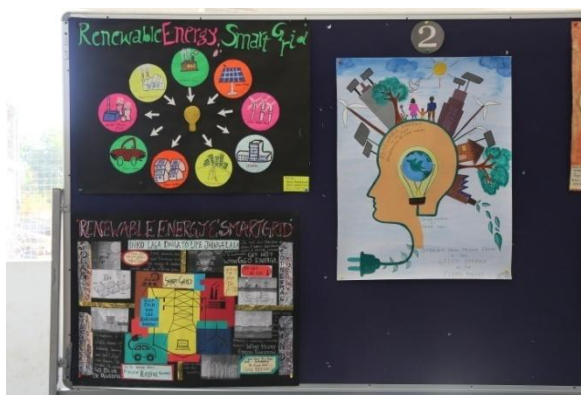
**An exhibition of Poster, Model and Project organized by CET students** was also running in parallel with the technical sessions. The objective of Exhibition is to promote interest in Science and Technology, encouraging scientific and technological creativity among students and inculcating a sense of pride in their talent, encouraging problem solving approach and developing appropriate technologies. All the posters were based on the topic of the conference with various ideas painted on sheets. Total 45 participants with team size of two participated in poster making competition. All the winners were awarded by a trophy, certificate and cash prize of Rupees 1100/- and other participants were given certificate of participation.



**After the technical sessions, the delegates proceeded for high tea followed by an entertaining cultural programme.** The function started by welcoming the Chief guest Dr. K. B. Gupta, Collector, Sikar District, other distinguished dignitaries Dr. V. K. Jain, Dean-CET, Prof. M. P. Jain, Chancellor, IMS Unison University, Dehradun, Prof. D. S. Chauhan, President, Association of Indian Universities, New Delhi, Shri A. K. Jain, Managing Director, Rajasthan Electronics and Instruments Limited, Jaipur, Prof. A. P. Mittal, Member secretary, AICTE New Delhi, Prof. Bhim Singh, Dean-Academics, IIT Delhi, Prof R. A. Gupta, MNIT, Jaipur, Prof A. Kulatunga, Purdue University, USA, Dr. Sudhir Y Kumar, HOD Electrical Engineering Dept. and Convener of ICRRESG-2017, faculty members and students. The program found its spiritual start after Lamp Lightening by Dr V. K. Jain, Dean CET and Dr. K. B. Gupta. There after all the mesmerizing dance performances started. The first amongst them was dance on theme LEGENDS by Team IM .They portrayed Gulzar, Beyonce, Madhuri, Abraham Lincoln, Bhagat Singh and Govinda. The next was the song performance by Swatantra Jain and Sparsh Jain. This performance was followed by a mesmerizing song MADLEY by our singing team GOONJ. Thereafter on the auspicious occasion of Mahashivratri, western team HOOFERS, showcased all forms of Lord Shiva which included Rudra avatar, Aghora avatar, Hanuman avatar and Ganesha, the son of Lord shiva. This performance was followed by the dance by our Contemporary dance team BLACK PEARLS.



They very beautifully portrayed human emotions in form dance and enthralled the audience completely. The program moved on by felicitating our chief guest Dr. K. B. Gupta with shawl, memento, and shrifal by Dr. V. K. Jain, Dean CET. Then the event witnessed the Drama on epitome of Sacrifice "PANNA DHAI" by our Dramatics team BROADWAY IMPERSONATORS. This scintillating event ended by showcase of colors of different states that involved energetic GUJARAT, traditional RAJASTHAN, full of culture UTTAR PRADESH, and the enthusiastic PUNJAB. The closing dance portrayed the theme of UNITY IN DIVERSITY and brought forward true colors of India. The feeling of nationalism was at its best when the closing dance was followed by National Anthem. **This brought an end to a memorable and great event of INTERNATIONAL CONFERENCE.** All the international conference attendees were escorted to Vinayak Resort for a lavish dinner.





On the second day of International Conference on Recent Trends in Renewable Energy and Smart Grid, 2017 on behalf of College of Engineering and Technology, Mody University, we had an impressive brigade of speakers- revered Prof. A. Kulatunga , esteemed Dr. J.P. Kesari and proficient Shri Sanjay Mathur. The session started with the customary felicitation of our guests with bouquets.

**Prof A. Kulatunga, Purdue University, USA** an illustrious professor in the Department of Electrical and Computer Engineering Technology at Purdue University painted a clear picture on acute consumption of energies in various spheres of society, vision of Smart Grid in USA and making a smarter grid.

**Next in line, Dr. J.P. Kesari, DTU, New Delhi** enlightened us with his insights on solar energy. **Dr. Kesari received B.Tech from IIT Kharagpur , ME from AIT Bangkok , Ph.D in solar energy from France and PDF from CNRS Paris.**Dr. Kesari left us in awe and wonder when he recounted his international and national ventures in the fields of solar air heating, solar drying, solar water heating, solar cooking, solar thermal power generation, solar furnace. The enigmatic address compelled the audience to applaud him with a standing ovation. With 17 years of work experience in nuclear power Corporation of India Ltd,

**Shri Sanjay Mathur**, threw light on India's Energy Scenario, how nuclear power is generated and also —about the myths of radiation. Then followed the traditional convention of presenting memento to respectable guests of the event.

**A panel discussion on the theme“Renewable Energy in 21<sup>st</sup> century: Opportunities andChallenges”** was held in SSTS (Mini Auditorium). Eight experts namely **Prof. D. S. Chauhan, Prof. M.P. Jain, Dr. S. K. Calla, Shri Sunil Kumar, Dr. J. P. Keshari, Prof. Jayshri Vajpai, Dr. Neeraj Priyadarshi and Prof. N. K. Joshi** discussed the different issues related to the theme of panel discussion. . **Dr. S. K. Calla (Ex- CMD, Rajasthan Rajya Vidut Utpadan Nigam, Jaipur)** spoke about the power distribution system and said now both the solar and wind energy production cost have become compatible with conventional energy sources. **Prof. M. P. Jain (Chancellor- IMS Unison University, Roorkee and Ex- Vice Chancellor, MITS, Lakshmangarh)**

stressed that both mini and major hydro projects are essential to meet both local and national demand for energy.

**Dr. J. P. Kesari (DTU, Delhi) emphasized that for rural development both solar PV and solar thermal can play an important role.** These dispersed sources of energy will lead to employability and skill development in rural sector. Mr. Sunil Kumar (RAPP, Kota) threw light on role of Nuclear Energy and said that contribution from nuclear energy is going to increase from present level of 3 % to 10% in near future.



**Prof. Jayashri Vajpai from JNVU, Jodhpur** explained in a very lucid manner about the role of smart grid in power distribution for renewable energy sources. She also stressed the role of universities in preparing the skilled human resources to face the challenges in these emerging technologies. **Prof. D. S. Chauhan (President, AIU, New Delhi and Vice- Chancellor, GLA University Mathura)** threw light on issues related to availability and production cost of different energy sources, emphasized the role of solar and wind energy in the present scenario, need of energy savings, smart meters, environmental and other societal issues related to renewable energy. The panel discussion ended with vote of thanks by Prof. Joshi to panel experts, Dean (CET), members of the organizing committee, faculty, and students and to all participants. Everyone then proceeded to have lunch in the college dining hall.

The two days International Conference, with an arena of thought processes and speakers came towards an end and the last session was the Valedictory & Award Ceremony, chaired by **Dr. V. K. Jain, Dean CET, Mody University**. The other members on the dais were **Prof. Suresh Advani, Hon. President, Mody University; Prof. D. S. Chauhan, Vice Chancellor, GLA University Mathura- Chief Guest; Prof. M. P. Jain, Chancellor, IMS Unison University, Dehradun-Guest of Honour; Shri Praveen Jain, chairman, IEL Rajasthan-Guest of Honour; Dr. Sudhir Y Kumar, Convener & Head (EE Deptt.) and Prof. P. K. Ghosh, Head (ECE & BME Deptt.).**





### 10.7.2 Seminar (NST)

One day “National Seminar on Nuclear Science & Technology” (NSNST-2017) was organized by College of Engineering & Technology (CET), Mody University of Science & Technology, Lakshmangarh (Sikar) on March 23, 2017 in collaboration and with sponsorship of Department of

Atomic Energy (DAE), Mumbai. The objective of seminar was to create awareness amongst the young budding women engineers about the nuclear power programme and other societal benefits of atomic energy. The seminar was unique since all the seven invited speakers were senior women engineers/scientists from different units of DAE and it was held at one of the leading women university in India. The seminar was attended by 277 participants covering a wide spectrum of audience from different engineering disciplines (CSC, EEE, Bio-Medical, Mechanical, & ECE) and also science streams like Physics and Chemistry. The seminar was conducted at “Sangeet Samrat Tansen Sabhagar” in the university campus and it consisted of inaugural function, two technical sessions having invited talks, screening of two video films, display of posters and exhibits and concluding session with questions answers and student feedback. Prof. N. K. Joshi, HOD-NST was the convener of this one day seminar.



**10.8 Movie Screened in Swami Haridas Sabhaghar**

S.No.	Name Of Movie	Date of Show (mm/dd/yyyy)	Number of Visitors
1.	A Flying Jatt	08/27/2016	67
2.	A Flying Jatt	08/28/2016	111
3.	Baar Baar Dekho	09/10/2016	369
4.	Baar Baar Dekho	09/11/2016	101
5.	MS Dhoni-The Untold Story	10/01/2016	592
6.	MS Dhoni-The Untold Story	10/02/2016	199
7.	Inferno	10/20/2016	42
8.	Dr. Strange	11/19/2016	53
9.	Dr. Strange	11/20/2016	29
10.	Kahani	12/03/2016	225
11.	Kahani	12/04/2016	105
12.	Dear Zindagi	12/25/2016	7
13.	Dangal	01/14/2017	129
14.	Dangal	01/15/2017	64
15.	JOLLY LLB2	02/11/2017	451
16.	JOLLY LLB2	02/12/2017	181
17.	LION	02/25/2017	63
18.	LION	02/26/2017	9
19.	Fast and Furious 8	04/15/2017	65
20.	Fast and Furious 8	04/16/2017	68
21.	Noor	05/04/2017	73
22.	Noor	05/05/2017	35

## 10.9 List of Visitors to CET

S.No.	Name of Expert	Affiliation
1.	Prof. A. Kulatunga	Purdue University, USA
2.	Shri A. K .Jain	Managing Director, REIL, Jaipur
3.	Prof. A. P. Mittal	Member Secretary, AICTE New Delhi
4.	Prof. D. P. Kothari	Ex-Director I/C, IIT Delhi, Ex-Vice-chancellor, VIT Vellore
5.	Prof. Bhim Singh	Dean-Academic, IIT Delhi
6.	Prof.A.B.Chattopadhyay	BITS Pilani, Dubai Campus
7.	Prof. R. A. Gupta	MNIT, Jaipur
8.	Prof. T. Dubey	Manipal University, Jaipur, Rajasthan
9.	Prof. V. Tiwari	Manipal University, Jaipur, Rajasthan
10.	Prof. K.K.Sharma	MNIT, Jaipur Rajasthan
11.	Dr. S.C.Bose	CEERI, Pilani
12.	Prof.Milind Agarwal	Cyber Crime Awareness Society
13.	Prof. C. V. S. Rao	IPR, Gandhi Nagar, Gujarat
14.	Dr. A. Abdelouas	Mines-Nantes Graduate School of Engineering, France
15.	Dr. Gursharan Singh	BARC Mumbai
16.	Dr. M. G. R. Rajan	BARC Mumbai
17.	Dr. J. P. Kesari	DTU, Delhi
18.	Dr. Nanditesh Nilay	TraNc
19.	Swami Prakashananda	Chinmaya Mission, Mumbai
20.	Mr. B.S. Chatilan	Law Commission of India
21.	Dr. S. B. Roy	Former Director Engineering Group BARC
22.	Dr. Saroja Saibaba	IGCAR Kalpakkam
23.	Dr. Sharmila Banerjee	BARC Mumbai
24.	Mrs. Anubhooti Saxena	Atomic Minerals Directorate ,Jaipur
25.	Mrs. Dipti Bachawat	NPCIL Mumbai
26.	Dr. Jyoti Tripathi	BARC
27.	Dr. Garima Sharma	NCPW-DAE