WAVELENGTH

SCHOOL OF ENGINEERING & TECHNOLOGY

SHARDA UNIVERSITY
Beyond Boundaries

NEWSLETTER
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INSIDE

INSPIRING QUOTE

" *Scientists investigate that which already is; Engineers create that which has never been.* "
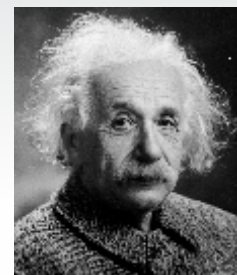
Albert Einstein
Theoretical Physicist

FROM DEAN'S DESK

" *The goal of school, guided by the vision, is to provide transformational education that produces skilled workforce, researchers and innovators of tomorrow with intellectual and technological resources.* "

Dear Readers,

It is my pleasure to share with you the various student activities and faculty achievements of SET for the period Feb – April 2018. Main highlights of this period is, to create awareness among faculty and students of Engineering and Science courses about various facets of entrepreneurship as an alternative career option, Entrepreneurship awareness as EAC - 2018 was organized by our school.

Competition provides a great platform to display the knowledge and skills you have amassed over the years, a national level project competition "Innovation Budge" was organized. More than 120 projects were registered from different schools, institutes, and universities.

Believing in fact that creating an engaged, supportive alumni network is crucial to an institution's success and good alumni relationships bring many benefits to both the institution and the alumni, alumni meet was organized by SET in this period. In order to promote higher forms of thinking in education, such as analyzing and evaluating concepts, processes, procedures, and principles, rather than just remembering facts (rote learning), SET has introduced Bloom's taxonomy as part of question paper setting.

"Education is a shared commitment between dedicated teachers, motivated students and enthusiastic parents with high expectations" (Bob Beauprez), our faculties guide and support students for their better future. Mr. Jithin Palepu, our First year B.Tech. student of ECE got selected for the seed funding from DPSRU Innovation & Incubation foundation in Healthcare. With newsletter as an active media, we keep on sharing achievements of SET family; this will surely act as an encouragement in achieving great heights.

Dr. Parmanand
Dean, School of Engineering & Technology

SCHOOLS OF ENGINEERING AND TECHNOLOGY

"ENTREPRENEUR SHIP AWARENESS AS EAC-2018 "

School of Engineering and Technology(SET), organized a three days camp on Entrepreneur ship Awareness as EAC-2018 from 9th April to 11th April, 2018 (2:00 PM to 4:00 PM) under the chairmanship of Dean, (SET) , Prof. Parmanand Coordinated by Prof. Neeraj Marwaha (ECE/EEE) & Prof. A. K. Singh (BT) moreover all the departments participated effectively with a total strength of 140 students and 26 faculty and staff members from all departments under the school of engineering and technology (SET).On first day 09/04/2018, Monday we have Mr. Sajid Raza for Registration of participants 02:00-02:30 PM and from 02:30-04:00 PM Inauguration & About the Programme. Second day, 10/04/2018 Tuesday we have Dr. Raj Karan Gupta who talks about the" Concept of Entrepreneurship" 02:00-03:00 PM and 3:00 to 4:00 PM "Entrepreneurial competencies". On last day (Third Day) we have Mr. Sandeep Malik who talks about "Various Govt. schemes related to Entrepreneurship" 02:00-03:00PM and from 3:00 to 4:00 PM we have Valedictory Function, Certificate Distribution by worth Dean, (SET) Prof. Parmanand, Prof R. M. Mehra and HOD,s of Various Departments.

"NATIONAL LEVEL PROJECT COMPETITION, INNOVATION BUDGE 2018 "

School of Engineering and Technology (SET), Sharda University, Greater Noida a global recognized and a youth leadership institute had organized "National Level Project Competition, Innovation Budge 2018" on 12th April 2018". It aims to invite innovative/smart projects from all students. More than 120 projects are registered from different Schools, Institutes, Universities and displayed & demonstrated in Block-2, ground floor. Projects are of different areas such as application software, tracking system, smart homes, drone and automatic robot, etc. The Judge of events are Mr. Surendra Kumar Chief Manager (Microwave Electronics Division) from Central Electronics Limited Ghaziabad and Mr. Ravi Raman ,Senior Engineer at Sopra-Steria .The projects participants were divided into two teams. The Team A includes CS/IT/Biotech streams and Team B includes ME/CIVIL/EEE streams. One participant Ms. Manvi Chaudhry from Kaushalya world school had also displayed her project name Water filtration Techniques and won appreciation certificated from Judges.The convener of the workshop was Parmanand Astya (Dean,SET, Sharda University), Co-Convenors were Dr. Pallavi Gupta, Dr. Bhim Singh & Dr. Rajiv Kumar and Co-Ordinators were Dr. Ashok Kumar Sahoo, Ms. Amrita, Ms. Aprajita Nainwal, Mr. Dharam Raj, Ms. Tanvi Gautam, Dr. Rita Singh, Mr. Vimlendu Sinha, Mr. Praveen Yadav, Mr. Ram Saran Chaudhary, Mr. S. Mukherjee, Mr. Sandeep Singh, Ms. Manisha Rajauria, Mr. C. Mohan, Mr. Shibamay Mitra, Mr. Vineet Kumar, Mr. Anuj Kumar Sehgal, Mr. Abhishek Bhatacharya, Dr. Gaurav Saini, & Ms. Sarmintha R. Paul.

The Winners list is given in table

Position	Project Name	Student Name	University/Institute Name	Discipline
A -1ST	Smart wheel chair	Gaurav Kumar, Rati, Shweta, Abhishek, Ishant, Ashutosh	Dronacharya College of Engg	CS/IT
A -2ND	Devt of eco bags from peel of pods	Raghavjain, Maleenkaur	Gautam Buddh, University	Biotechnology
A-3RD	Reward Win	SumitSarohi, Robin Sharma, Srinath Thapa, Rishabh Malhotra	Dronacharya College of Engg	Information Technology
B-1ST	Expandable Table	Vikash kumar Mahto, Suneel Kumar Singh, Shahjadalam	Sharda University	Mechanical Engineering
B-2ND	Replacements of Crib	Girish Kumar Sharma	IIMT College	Mechanical Engineering
B-3RD	Divya Shakti	Arun, Piyush, Showket	Sharda University	Mechanical Engineering

BLOOM'S TAXONOMY AS PART OF QUESTION PAPER SETTING

School of Engineering and Technology (SET), Sharda University, Greater Noida had started concept of Bloom's taxonomy as part of question paper setting.

Bloom's Taxonomy was created in 1956 under the leadership of educational psychologist Dr. Benjamin Bloom in order to promote higher forms of thinking in education, such as analyzing and evaluating concepts, processes, procedures, and principles, rather than just remembering facts (rote learning).

It is most often used when designing educational, training, and learning processes.

Creating

Evaluating

Analyzing

Applying

Understanding

Remembering
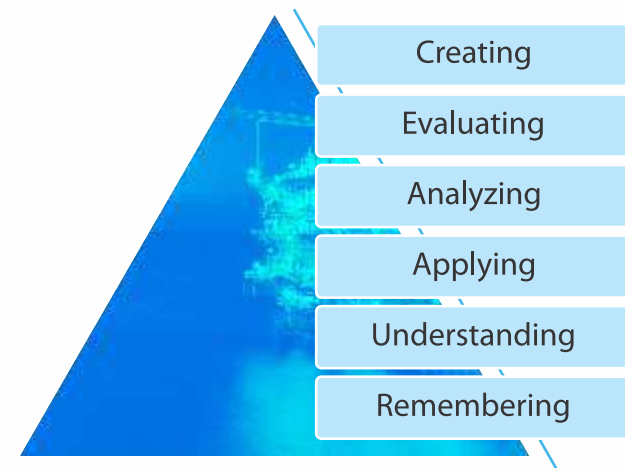
"3RD ALUMNI MEET"

The School of Engineering and Technology (SET), Sharda University had organized its 3rd Alumni Meet on Saturday, March 31, 2018. It is an occasion for our alumni to meet old friends, classmates, acquaintances, and teachers, reminiscing memorable experiences and sharing success stories with the current students.

Most importantly, it would be an opportunity to renew our commitment to the noble ideals of the Sharda University. The event started with Saraswati Vandana and Lamp lighting by the Faculty and the alumni.

A welcome address was delivered by our Dean, Prof. Parmanand highlighting the achievements of SET. He also stressed on the necessity of working for the upliftment of all sections of our society.

A number of our distinguished alumni shared their cherished experiences of Sharda, how their time at Sharda prepared them for professional success and named the professors who have had the greatest influence on them during their college days. Many of them also shared success mantra with the audience. All the alumni were presented with a token of our love in the form of a memento.

The vote of thanks was given by Prof. Mehra, who recollected a number of experiences with the alumni. The event was followed by a lunch for the alumni and the faculty.

Mr. Sandeep Singh, Assistant Professor ECE had been appointed as Dy CoE of SET Sharda University.

BIOTECHNOLOGY ENGINEERING

"RESEARCH PUBLICATIONS"

• Mustafa A Isa, Rita S. Majumdhar & Shazia Haidar. A Green Method of Molecular Docking and Dynamic Simulation of Protein Molecule Obtained from Mycobacterium Tuberculosis.
Paper published in International Seminar on Green Chemistry: Synthesis, Processing & Devices held on April 6-7, 2018 at Dept. of Chemistry, V. K. S. U., Ara Bihar.

• A Kumar, R. S. Majumdar and T Dhewa,"In Vitro Efficacy of Biosynthesized AgNPs against Streptococcus mutans causing Dental Plaque Formation", Research Journal of Scientific & Industrial Research, Vol.77, April 2018, pp.225-228

• Majumder, S., & Johari, S. (2018). Development of a gold-nano particle based novel dot immunobinding assay for rapid and sensitive detection of Banana bunchy top virus. Journal of virological methods, Vol. 255, 23-28.

• Majumder, S., Mbay, K., & Singh, J. (2018). First report of garlic virus D in garlic from DR Congo.
Journal of Plant Pathology, Vol 1-1.

INVITED LECTURE/CONFERENCE

- Dept. of Biotechnology School of Engineering & Technology (SET celebrated the International Women's Day on 7th and 8th March, 2018. In this occasion the following speakers were invited to deliver their lectures on 7th March, 2018.

- Ms. Shomita Biswas, IFS, Ministry of AYUSH delivered an interesting and informative talk about medicinal and aromatic plants in India. She focussed on the export possibilities of many of these medicinal plants. She also mentioned about their products (active, natural principles and crude extracts) that have been mentioned or used in the Indian traditional system of medicine. Indian plants which are most effective and the most commonly studied in relation to diabetes and their complications are: Allium cepa, Allium sativum, Aloe vera, etc.

- Dr. M. R. R Prasad, Former Scientist ISRO, Govt. of India talked on a thought provoking aspects of microbial existence in Space research. He emphasized on the use of the space environment for understanding basic biological mechanisms, such as the role of gravity at the cellular, subcellular, and extracellular levels.

- Dr. Vasundhra, Dietician, AIIMS gave a talk on Food Quality and maintenance of health under stress conditions both for teachers and students. She emphasized on food-borne diseases which are the most prominent health problems these days and often have fatal consequences.

- Prof. Rita S. Majumdar has delivered an Invited lecture entitled "Value Addition In Medicinal And Aromatic Plants" at National Conference on Environmental Pollution and its Control (EPIC 2018) held from 9th to 10th March, 2018. It was organized by Department of Civil Engineering, Government Engineering College, Rajasthan and she was also Chairperson of a session in the conference. She attended the conference along with 19 PG students (both Indian and Ethiopian) of our department.

" INDUSTRIAL VISIT "

- Students of M.Tech. Biotechnology were taken for an industrial visit to Yakult factory at Sonipat on 16th Feb, 2018. Yakult Danone is a well-known brand for probiotics. There students got the idea how microbial process is scaled up to an industrial level and the various factors that need to be taken into consideration. As it is a fermented food product they also learnt about the various aspect of its quality control

- Students of B.Tech. 3rd year and M.Tech.1st year (Ethiopian Group) were taken for an industrial visit to Moon Beverages (Coca Cola) Pvt. Ltd, Shahibabad Unit on 21st March, 2018. There students got a glimpse of the industrial scale processing and acquired first-hand knowledge of various steps in the manufacturing of the drink they are so used to.

" ACHIEVEMENTS "

- Mr. Arjun Bhatta, our fourth year (2014-2018 Batch) B.Tech. student of Biotechnology got selected for Integrated MSc/PhD at International Max Planck Research School, Molecular biology at University of Gottingen. His GRE and TOEFL scores are 331/340 and 118/120 respectively.

CIVIL ENGINEERING

" WORKSHOP "

A Workshop on "Softwares used in Civil Engineering" was organized by Department of Civil Engineering on 14th March 2018 for the students of 3rd year Civil Engineering. The workshop was organised by Mrs. Shikha Saini & Mr. Anumod.

In this workshop applications of the software used in different sectors of various specializations were demonstrated to students which include AutoCAD and Revit. Mr. Amit Tiwari from Lelogix Design solutions Pvt. Ltd. was the speaker.

Softwares related to Structural Designing, Transportation Engineering, 3D Design and Modelling and Building Information Modelling were demonstrated to students.

" INDUSTRIAL VISIT "

An Industrial visit was organized by Department of Civil Engineering to Nova Residences located in Noida Sector 94. This visit was organized for 3rd year students of Civil Engineering Department on 7th & 8th April 2018. Supertech Limited which is one of the leading Real Estate Company, is handling the work on this site. The major engineering topics covered are Flat slabs, Shear wall, spacing of stirrup, lap joint, clear cover, hook distance (as per C.P.W.D.), different zones of column, curved beam, raft footing, ties used in column, AutoCAD plan of the buildings and fly ash bricks.

" EXPERT TALK "

An Expert Talk on Disaster Management for B.Tech. Civil Engineering students was organized by Department of Civil Engineering, on 4th April 2018. Expert Speaker for the talk was Col. Vivek Shankar Mathur. Main objective of the talk was to aware the students (youth) to understand the nature of society's response to disasters and to make them understand how to react to reduce the risks for a disastrous event.

EXPERT TALK

COMPUTER SCIENCE AND ENGINEERING

WORKSHOPS'/SEMINARS

• 'CYBER SURAKSHA YOUTH AWARENESS CAMPAIGN'

Department of Computer Science & Engineering, School of Engineering and Technology (SET), Sharda University organized a 1-day workshop on 9th March, 2018 on 'Cyber Security Awareness and Skill India-CyberSafe India' conducted by ASSOCHAM Campaign entitled 'Cybersuraksha Youth Awareness Campaign' for the 3rd year students of B.Tech., 2nd year students of BCA and MCA respectively, First and 2nd year students of M.Tech./P.hD. Guest Speaker was Ms. Meenu Chandra. The convener of the workshop were Dr. Parmanand Astyaand Dr. Rajiv Kumar, and Co-Ordinators were Dr. Ashok Kumar Sahoo, Ms. Amrita, Mr. Diwakar Gautam, Mr. G. S. Mishra, Mr. Mukul Varshney, Ms. Supriya Khaitan, Ms. Preeti Kaushik, Mr. P. K. Mishra & Ms. Tanvi Gautam. The participants of the workshop were around 350 students.

• WORKSHOP ON TRAILHEAD SALES FORCE

Department of Computer Science & Engineering, School of Engineering and Technology, Sharda University organized a 2-days workshop from 5th-6th April, 2018 on 'Salesforce Trailhead' conducted in line of "Salesforce EDU Outreach Programme". The convener of the workshop was Dr. Parmanand, (Dean - School of Engineering & Technology), and Co-Ordinators were Dr. Ashok Kumar Sahoo, Dr. Rajiv Kumar, Ms Amrita, Mr. Diwakar Gautam, and Ms. Tanvi Gautam. The participants of the workshop were around 250 students. This programme is intended to ensure the learning and mastering the concepts of being a Sales force Administrator and a Salesforce Platform App builder. It helps in understanding the fundamentals of Sales force online application development and the deployment of next-generation cloud apps.

विद्यार्थियों को साइबर अपराध से निपटने की तरकीब बताई

• WORKSHOP ON PYTHON PROGRAMMING'

a) Department of Computer Science & Engineering, School of Engineering and Technology, Sharda University organized a Workshop on Python Programming on 11th April 2018 respectively. The workshop is for students of First year (B.Tech. and BCA), to give more practical exposure on logic building concepts through Python Programming.

b) Department of Computer Science & Engineering, School of Engineering and Technology, Sharda University conducted Quiz followed by a Workshop on Python Programming on 3rd April, 2018.

It is mandatory for all the students of the First year (B.Tech. and BCA) to appear in the Quiz.

The quiz will be based on Logic Building Concepts, Techniques and Python Programming Fundamentals. The aim of the quiz is to evaluate student's knowledge about theoretical and practical knowledge using real life problems.

• Department of Computer Science and Engineering, School of Engineering & Technology (SET)had organized an Internship Interview for B.Tech. 3rd Year in NETREE on 27th to 28th March.

• In association with Reminder for Me Team, Department of Computer Science and Engineering, School of Engineering & Technology (SET) is conducting a One-day Extensive Workshop for Soft Skills on 26th March'18 for B.Tech. 3rd year students across SET. Along with CSE, CE dpt students participated as well. The Objectives was To prepare the pre-final and final year students for the placement process and future career prospects and To provide a one-day workshop for Inter-personal skills enhancement, real-time Group Discussion, Interview practice, resume writing to the students. each other.

• Under the guidance of Dean Set and Head of the Department of computer Science and engineering, placement team has conducted mock interviews for 3rd year students, from 17th April to 24th April as part of training for placement year. Our faculty is compartmentalized Into separate panel of experts for Java, c, C++, android, PHP modules for interviewing students. For whole one week, all four sections were targeted and prepared. Activities such as these are encouraged for boosting morale of students.

• The Internal Quality Assurance Cell (IQAC) organized a Faculty Development Programming 'OBE-Outcome Based Education' on January 31, 2018.

During this development program, Prof. Parmanand, Dean, SET gave an interactive presentation on developing PEO (Programme Educational Objectives), PSOs (Programme Specific Outcomes), PO (Programme Outcomes) and COs (Course Outcome) from Engineering perspective. The key focus during the session was to map all the objectives with each other.

ELECTRONICS & COMMUNICATION ENG. , ELECTRICAL & ELECTRONICS ENG.

CONFRENCES \ WORKSHOPS

• Assistant professor S. P. Jaiswal has attended International Conference on Signals, Machines and Automation (SIGMA'18) at NSIT , New Delhi and presented a paper titled "A PSO based Search for Optimal Tuning and Fixing of UPFC to Improve Usefulness of Distribution System" in on February 23-25. The paper has been awarded as best paper award. Mr. Same Ram Ramavt M. Tech Power System student has attended same conference and presented his paper titled "Optimal Location and Sizing of DG in Distribution System and its Cost-Benefit analysis". Mr. S. P. Jaiswal was second author of the paper.

• Assistant professor S. P. Jaiswal has attended IEEE international conference on Power Energy, Environment and Intelligent Control at G. L. Bajaj, Greater Noida on 13th-14th, April and presented his paper "Optimal coordination of UPFC and DG in distributed System".

ACHIEVEMENTS OF STUDENTS

• Mr. Jithin Palepu, our First year B.Tech. student of ECE got selected for the seed funding from DPSRU Innovation & Incubation foundation in Healthcare Hackathon - Health Hack organized on13th April, 2018, project proposal titled "Mind controlled Prosthetic Arm".

• Mr. Ritik, our second year B.Tech. student of ECE got selected in W3dev private limited for internship in Hardware Development on 23rd March, 2018 for 2 month.

• The recent achievements of the alumini of the University, who has spread the name of the university from different IIMs to Cambridge University. Mr. Sourav Das, B. Tech EEE passed out batch 2017 has scored 96.87 percentile in CAT 2017 and has got call from all the top IIMs. He has gone through interview and yet to make final decision between IIM Ahmedabad and IIM Kolkata.

• Mr. Ramit Debnath, B.Tech. EEE passed out 2015 has been awarded the prestigious Gates-Cambridge Scholarship-2018 cohort for his PhD at the University of Cambridge.

• Mr. Junaid Ahmad pass out students of ECE (2009-2003) batch had secured AIR-352 in civil series. This information is provided by Mr Prince Nagar, Alumni Coordinator SET.

KATHMANDU (NEPAL) VISIT

Department of Electronics and Communication Engineering (ECE) ,School of Engineering & Technology (SET organized International Talk and hands on training at Kathmandu (Nepal) based on "Artificial Intelligence and Robotics "under the aegis School of Engineering and Technology (SET), from 8th to 14 th March, 2018, under the chairman ship of Dean (SET), Prof. Parmanand, Coordinated by Sh. Ashok Daryani (Director Admission ,International Division) Assisted by Mr. Anuj (Regional Manager, Admission) and co-chaired by Dr. Pallavi Gupta (HOD ECE & EEE) . Moreover, Prof. Neeraj Marwaha (ECE/EEE) and Mr. Ajay Kumar (Student, Final year ECE) deputed for the same to interact with students of science and management streams in the field of Artificial Intelligence and robotics nearly Two hundred and ninety-three students, (293) in Six (06) different top international and reputed colleges at Kathmandu, were they discussed about robots made by Sharda university as compare to Boston dynamics robot, humanoid robots and hexa pod robots Further, they got two appreciation letters from Chelsea and NAMI international Colleges with three mementos.

" SUMMARY OF INDUSTRIAL VISITS "

Details of the Industrial Visit, 2016-17				
Sl.No.	Date of Visit	Name of Company	Number of students	Year of students
1.	14th March, 2018	10th-14th March 2018 at India Expo Mart, Greater Noida, NCR, India. ELECRAMA (Largest congregation of power sector ecosystem in the geography)	50	3rd & 2nd
2.	11th October, 2017	20th-22nd September 2017 at India Expo Mart, Greater Noida, NCR, India. Renewable Energy India Expo (applications of renewable energy resources, showcase innovations, and enrich deliberations)	30	3rd & 2nd
3.	24th October, 2017	JCB India Pvt. Ltd, Faridabad	30	4th
4.	7th November, 2017	Coca-Cola, Greater Noida	40	2nd

" FAREWELLS "GOODBYE ALWAYS MAKES MY THROAT HURT."-CHARLIE BROWN "

- Department of ECE/EEESchool of Engineering & Technology (SET), had organized 'Farewell' for Assistant professor Ms. Sonia Gupta who recently joined as junior telecom officer at BSNL and Assistant Professor Mr. Abhijeet who was selected through Bihar PSC for teaching. This is to bid them adieu, goodbye and wish them luck for their future endeavors.

- 3rd year students from Department of ECE/EEE School of Engineering & Technology (SET), had organized 'Farewell'for 4th year students.

As the last semester is about to end, the 4th year students are about to begin a new journey of life.

To celebrate the togetherness of students, Department of ECE/EEE, had organized a Farewell Party to bid goodbye and best wishes to the following passing out Batches.

MECHANICAL & AUTOMOBILE ENGINEERING

" RESEARCH PUBLICATIONS "

Sunil Kumar, Ashwani Kumar Dhingra, Bhim Singh published a paper entitled "Process improvement through Lean-Kaizen using value stream map: a case study in India" in The International Journal of Productivity and Quality Management.

DOI: 10.1504/IJPQM.2018.10012051

" STUDENT ACHIEVEMENTS "

- Mr Vikash Mahato, Mr. Sunil Kumar Singh and Mr. Shahjad Alam students of B.Tech, Mechanical Engineering have participated and won the first prize in National Project Competition organized by School of Engineering and Technology, Sharda University under the guidance of Assistant Professor Mr. Shibmay Mitra on date 12th April 2018.The project topic was "Expendable Table".The award and cash prize of Rs. 8000/- was jointly given by Dr. Vijay Gupta (Ex Vice Chancellor), Dean SET, HOD Mechanical Engineering department and other jury members. The entire department and faculty members of M.E. wishes all the best to the winners.

- Mr. Piyush students of B.Tech., Mechanical Engineering and his team acclaimed the IIIrd position for valuable contribution towards physical impaired society DIVYSHAKTI concept in National Project Competition organized by School of Engineering and Technology, Sharda University.

STUDENT ACHIEVEMENTS

"WORKSHOPS"

• The Department of Mechanical Engineering, School of Engineering & Technology (SET) organized a workshop on 3D Printing, its applications and career opportunities in association with SHAPERJET, Delhi on 13th April, 2018. The lecture provided a glimpse of 3D printing, its uses and its impacts in different fields with Live demonstration of a 3D Printer. Ms. Saigeeta Priyadarshini (Assistant Professor) coordinated the event on behalf of the department.

WORKSHOPS

• Two certified courses named SOLIDWORKS Associate (CSWA) and Autodesk Certified Professional (ACP) are going on in the department of Mechanical Engineering in association with Le Logix Business Solutions Pvt. Ltd., Greater Noida.

This course will help the students in getting better job opportunities.

26 students of 3rd year joined the course and are completing their projects in the month of April.