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INSPIRING QUOTE

“

Failure is central to engineering. Every single calculation that an engineer makes is a failure calculation. Successful engineering is all about understanding how things break or fail.

”



Henry Petroski

*Renowned American Engineer and
Prof. of Civil Engineering at Duke University*



FROM DEAN'S DESK

“

There is no power for change greater than a community discovering what it cares about.

”

Dear Readers,

It is my pleasure to share with you the various student's activities and faculty achievements of SET for the period of September-November 2018. Main highlight of this period is to build and strengthen the connections between the University and community by getting a closer perspective of the rural educational system in India. This Community Connect programme was organized by various departments of our school which supports and encourages the learning and education and strives to raise the awareness of careers and career pathways for young people and their families.

“Sharing will enrich everyone with more knowledge”. True to this notion, Journal club meetings were organized by all the departments. These exercises are integral part of teaching and research in our school now.

SET believes that “Engineering or technology is all about using the power of science to make life better for people, to reduce cost, to improve comfort and to improve productivity”; to spread this message and work for society and themselves, many of our final year students got placed in reputed MNC's like Think and Learn, BYJUS Pvt. Ltd. and many more.

“Writing the perfect paper is a lot like a military operation. It takes discipline, foresight, research, strategy, and, if done right, ends in total victory”. Believing in this fact, many of our students and teachers have published good papers in reputed journals.

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. Parma Nand

Dean, School of Engineering & Technology



INDUSTRY MEET ON 15th NOVEMBER, 2018 AT SU

SEMINAR TOPIC : “ROLE OF ACADEMIA IN MSME GROWTH”

Brief of event

MSME (Ministry) have several schemes for B.Tech. Students having projects of SME units, as well as other Government schemes, where Industries can get subsidies to improve their operations.

SU is having state-of-the-art “Mechanical, Industrial and Design Laboratories” & highly qualified Professors in the respective field.

SME industries need innovations and automation to grow, in that area SU can play a catalyst to support SMEs growth.

Mr. Vijay Kumar-Director (MSME-NCR Region), was Chief Guest of the event. More than 50 industries owners participated in the event. He briefed about the Government schemes for Students & University

Prof. Reddy (VC-Sharda University) briefed about the facilities available for Industries.

Prof. Parma Nand (DEAN-SET) welcomed Mr. Vijay Kumar (Director, Govt Of India) and assured all help to industries

Mr. Raj Nidhi Sharma (HOD-Industry Interface) talked about the 3 on going projects of “Precision Polymer”, Inno Colour Pvt Ltd” and “Eco Vision Pvt Ltd”, Greater Noida Industries.

Mr. Jitender Pareek (CEO-Eco Vision Pvt Ltd”) appreciated the SU efforts to support Greater Noida Industries

Mr. Mahesh Tyagi (President Lagho Udyog Bharti) welcome the SU efforts to make “University As service Hub”.

Outcome of the session:

- Students / faculty got the insight of MSME Ministry schemes for Students, i.e Government provide Rs. 1.5 Lacs grant per Project/student to work on “Improvement of Small and Medium Enterprises”
- SU will act as “Design Firm” to provide the “Innovative Design Solutions” for Small and Medium enterprises. Government of India, provide the Grant of Rs. 15 Lacs under “Design Clinic” scheme
- Under “Incubate Project” scheme, any innovative product development, can be funded by Government, Upto Rs. 15 Lacs as grant for these projects.





BIOTECHNOLOGY ENGINEERING

INDUSTRY CONNECT & CAREER COUNSELING

On September 19th, 2018 (Wednesday), Department of Biotechnology organized an Interactive Session on 'Career Guidance'. Mr. Dheeraj Pratap Tomar (Regional Sales Manager) and Mr. Atul Sisodia (Senior Relationship Executive) from Cryoviva India Pvt. Ltd. were invited for this session and interaction. Mr. Sisodia, one of our ex student (2010-14 batch), interacted extensively at one to one, with the students clearing their doubts regarding various job profiles, work environment, types of biotech industries & interview basics in various Biotechnology Industries. About 35 students of 4th year participated. At the end, the speakers shared their contact details with the students and were thanked by organizers.



EDUCATIONAL TOUR/INDUSTRIAL TRIP

An educational tour was arranged by the Dept. of Biotechnology, SET, Sharda University for M.Tech. and M.Sc. Biotechnology students (including International students) to Ajmer from 13th to 17th October 2018. In this four days tour, the students got a chance to visit Government Research Laboratories, Science Museum and a small local day tour to see the historical/social/cultural diversity at Ajmer (e.g. Ajmer Sharif Dargah, Bramha Temple etc.). On 15th-16th October, 2018. The students also attended a two days National Conference at Sophia Government College, Ajmer & were exposed to the advances in Science and Technology in context to Biotechnology with interdisciplinary approaches. A total of 28 students were accompanied by Prof. Rita S. Majumdar and Mr. Praveen Yadav.

Industrial visit Students of B.Tech. Biotechnology, Vth term, B.Sc. Biotechnology term V, B.Sc. (H) Biotechnology Vth term, visited

Yakult Danone, Sonepat Plant on 15, November, 2018. Yakult is a pioneer in Probiotic foods worldwide since 1935. Yakult has a global presence in 33 countries and regions. The students were introduced to the whole methodology of probiotic milk preparation. They were accompanied by two of our faculty members, **Dr. Pankaj Taneja** and **Dr. Sujata Pandit**.





About 260 delegates from different parts of the country attended this National conference. About 16 Invited speakers from reputed Institutions and 27 oral presentations were selected overall.

About 50 posters were displayed for poster competition. Five oral presenter and 4 poster presenters were awarded for their excellent performance.

2ND NATIONAL CONFERENCE

Department of Biotechnology organized 2nd National Conference on "Advances in Biotechnology: An Interdisciplinary Approach" from 2nd to 3rd November 2018. Eminent scholars and students from ten different universities participated in it. **Dr. Sanchita Jindal** Adviser (Scientist 'G'), Ministry of Environment, Forest & Climate Change, Govt. of India graced the inaugural ceremony as chief guest.



EXPERT LECTURE ON "CAREER UPLIFT: STEM CELL & REGENERATIVE MEDICINE".

Department of Biotechnology, SET (Sharda University) has Organized an Expert lecture on "Career Uplift: Stem Cell & Regenerative Medicine" in the area of Biotechnology on 26th November 2018. This Expert lecture organized in the leadership of Prof. Parma Nand (Dean SET) for career upliftment of B.Tech./M.Tech. Students in the area of Stem Cell and Regenerative medicine. This area is an innovative and Research backbone in the field of Biotechnology in 21st century. According to Expert lecture Speaker Dr. Prabhu Mishra (CEO & Founder- StemGenn Therapeutics, India) told that Stem Cell Therapy has emerged as very promising technique in regenerative medicine and has gone through rapid advancements in the last few decades. It has now established itself as a major clinical care option and promises a lot of solutions for existing medical problems. The Convener and Co-ordinator's of this lecture are Prof. Parma Nand (Dean SET), Prof. Shahana Majumder (HoD, Department of Biotechnology) & Dr. Saurabh Kumar Jha, Assistant Professor (Department of Biotechnology).





CONFERENCES ATTENDED

Dr. Amit Singh & seven students from the department (B.Tech. M.Tech. & Ph.D) participated in a national conference on "Emerging Trends in Non-Communicable Diseases: Road to Prevention and Cure" held at IMS Ghaziabad Universities Courses Campus, Ghaziabad, U. P. on 17th November, 2018. Dr. Amit Kumar Singh, the Assistant Professor of Sharda University was invited as the Chairperson for the Technical Session I.

Mr. Akshay Kumar Aarya from B.Tech Biotech final year, got the Second Prize in Original Research Category of Poster Presentation.

Vimlendu Bhushan Sinha, Atul Grover, Patade Vikas Yadav, & Veena Pande. (2018) "Salt and osmotic stress response of tobacco plants over expressing *Lepidium latifolium* L. Ran GTPase gene." Indian Journal of Plant Physiology: 1-5



COMPUTER SCIENCE AND ENGINEERING

THE BIGGEST & MEGA EVENT OF CSE DEPARTMENT

Department of Computer Science and Engineering, School of Engineering & Technology, Sharda University organised Expert Talk by World's Youngest IBM Watson Programmer "**MASTER TANMAY BAKSHI**" on 30th November, 2018.



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TED Talks: World's youngest IBM programmer Tanmay talks about artificial intelligence at Sharda University

15-year-old Tanmay Bakshi works as a programmer and is based in Toronto, Canada. His love for coding led him to create 'AskTanmay', which is the world's first natural language question answering system to be powered by IBM Watson.

NDIA Updated: Dec 01, 2018 14:52 IST

By
Hindustan Times, Greater Noida





IBM ICE DAY CELEBRATION

The Department of Computer Science and Engineering, (SET) organized IBM ICE DAY on 19th November, 2018. IBM ICE DAY is the activity-filled day for IBM students, which includes different technical activities like Poster making, Paper presentation, Hackathon, Project presentation by students of B.Tech. CSE-IBM (1st, IIInd, IIIrd and IVth Year).



INDUSTRY LECTURES

- Department of Computer Science and Engineering, School of Engineering and Technology, has organized Industry Guest Lecture on Monday 17th Sept. 2018 from 2:30 pm-3:30 pm.



Speaker: Mr. Garv Modwel, Head Autonomous Cars-Software Development, Valeo, Chennai

- Department of Computer Science & Engineering School of Engineering and Technology (SET), has organized Industry Guest Lecture on Thursday 20th Sept. 2018 from 11:00am to 2:00pm. The Lecture focused on overcoming Cyber Crimes and Cyber Challenges in today's world.



Speaker: Mr. Rakshit Tandon, Director Executive Council-Council of Information Security (CIS) Cyber Security Consultant-Internet & Mobile Association of India, Advisory-Cyber Crime Cell (State Police)

- CSE Department has organized the Guest Lecture on Business Intelligence & Cloud on 31st October & 1st November, 2018.



Speakers: Dr. Jitendra Shrimati & Mr. Siddhant Agarwal

DEAN SET AS RESOURCE PERSON

Prof. Parmanand Astya (Professor & Dean, SET), invited as resource person, attended 7th SMART International Conference on System Modelling Science Information Technology, from 23-24 November 2018, organized by CS Dept. of College of Computing Science & Information Technology, Teerthankar Mahaveer University, Moradabad.



RESEARCH ACTIVITY



- CSE Department organized Research Interaction with **Mr. Shashi Pal Singh**, Senior Scientist, CDAC, Pune on 17th September, 2018 from 4:00 pm - 5:00 pm at Board Room 005, Block-1. This session was intended to get the awareness regarding scientific agencies and research projects targeted by these agencies.



Speaker: Dr. Sudeshna Chakraborty

- Department of CSE organized 7th Research seminar, focussed on high scientific manuscript drafting, open research problem in the field of networks, 6th Oct 2018, 11:00AM to 12:00PM, Lab 214, Block 1
- Department of CSE organized 8th Research seminar, focussed on research trends in Block chain Technology to discuss problem does the Block chain solve, Simulation with Java Script, 6th Oct 2018, 12:00PM to 12:45PM, Lab 214, Block-1



Speaker: Dr. Sandeep Saxena

- Department of CSE organized 9th Research Seminar on 'Cyber Security' within the research groups of CSE Department on 13th October, 2018 from 11:30 am- 1:00 pm at 005 Block 3. The seminar focussed on Cyber-Security & Research Exposure in the application of Cyber-Security with distinct areas.



Speaker: Mr. Kapil Malhotra, HCL

- CSE department organized 10th Research Group Seminar to discuss on "Block chain Technology, Current Applications, Challenges and Funding Aspects" within the research groups of CSE Department research groups on 17th Nov 2018 from 11:30 am-1:00 pm in 005, Block 1, SET.

Speakers: **Mr. Satyakam Chakravarty** (Founder & CEO)
Mr. Anurag Agrawal (Founder & CEO).



FDP

- CSE Department organized Faculty Development Programme on "Machine Learning using Python/R" from 26th Oct 2018 to 28th Oct 2018. Mr. Nishith Pathak, Vice-President, R&D Lead, Accenture Technology, Ms. Debanita Dasgupta, Tech-Mahindra Ltd., Noida Mr. Rahul Tiwari, ML, Corporate Trainer, Skill Santa, Bengaluru, Dr. T.V. Vijay Kumar, Professor, School of Computer & Systems Sciences, JNU, Delhi, Dr. Shivani Bali, Associate Professor, Operations PGP, LBSIM, Delhi, Dr. Pooja, Associate Professor, CSE, Sharda University. *Advisor Committee: Prof. Dr. Parma Nand, Dean SET, Prof. Dr. Nitin Rakesh, HoD, CSE, Convener: Dr. Pooja, CSE, Coordinator: Ms. Rani Astya Ms. Manu, Mr. Dharm Raj, Mr. Tarun Maini, Mr. Pankaj Sharma*
- Department of Computer Science and Engineering organized Two Days Hands-On/Workshop on "Hibernate in Java" on 23rd & 24th October, 2018 at Room Number 313, Block 3. This was a complete hands-on workshop on Hibernate in Java. It gave insight into mapping, annotations log4, JPA & inheritance mapping.



INDUSTRIAL VISIT & COMMUNITY CONNECT

- 50 Students of Department of CSE and Dr. Rajiv attended event on "Microsoft AI Camp 2018", on 31 Oct-2018 at 11 AM. Speakers: **Mr. Kedhar Nath Narahari**, Research Engineer at AI & Research division in Microsoft India., Mr. Harish Yenala, Research Engineer at AI & Research division in Microsoft India & Mr. Osheen Chauhan, Founder & CEO, InfSpark,
- 35 students of Department of Computer Science and Engineering & Mr. Dharamraj visited Agaston Mobiles/Tambo for the Holistic Development of Students at Sector 135, Noida on 2nd November 2018, at 12:30 PM to 3:30 PM.
- Over 200 Students of Department of Computer Science and Engineering Visited HT Media Limited, Udyog Vihar, Greater Noida, on 17th November 2018. **Mr. Amit, Mr. Pankaj, Ms. Gunjan.**





MOU/COLLABORATION

- Sharda University has recently signed a Memorandum of Understanding with Beijing Internet Institute (BII) for the purpose of IPv6 Open Root Server Initiative. The MOU is with Department of Computer Science & Engineering of School of Engineering at Sharda University. Prof. (Dr.) Parma Nand, Dean SET has initiated this MOU for the growth of the University. Prof. (Dr.) Nitin Rakesh, HOD-CSE has establish this from CSE Department for the purpose of this MOU.

The aim behind this MOU is to develop Sharda University as one of the Global Internet Resource. Sharda University has taken this step towards the sustainable development of Internet for Indian context.



- Department of CSE & ME initiated Collaboration with **MS. Indoplast** which is one the leading industry of Multi-platform products which are scaled to Fortune 500 customers. This collaboration is intended to involve students of CSE & ME for common problem specified by the industry.



STUDENTS ACHIVEMENT

3rd Year B.Tech Student of Computer Science and Engineering

Ms. Banoshree Bose, was shortlisted for KBC (Kaun Banega Crorepati, SONY TV) for special week audition scheduled on 4th November 2018, Mumbai.



3rd Year B. Tech CSE students (**Ashutosh Srivastava, Sharib Khan, Faizan Akhtar, Jacob Adeboye Ajala, Digbijay Panda**) participated at Mobile Developer Fest hosted by Google Developers November, 20 & 21, 2018 at Greater Noida.





WORKSHOP ATTENDED

- **Dr. Sudeshna Chakraborty** attended a 2.5-Day workshop on “Grant Writing & Management” on “Grant Writing & Management” organized by German Centre for Research & Innovation (DWIH) New Delhi from 26th to 28th November, 2018 at the Convention Centre, Jawaharlal Nehru University, New Delhi.
- **Mr. Pankaj Sharma** and **Mr. Manish** participated in one day National Seminar on the subject: Electric Mobility in India: Issues & Options, on Nov 30, 2018 at Hotel Le Meridien, Delhi.
- **Prof. (Dr.) Parma Nand**, Dean SET was invited as Keynote Speaker & Session Chair at Dronacharya engineering College on 2nd Dec, 2018

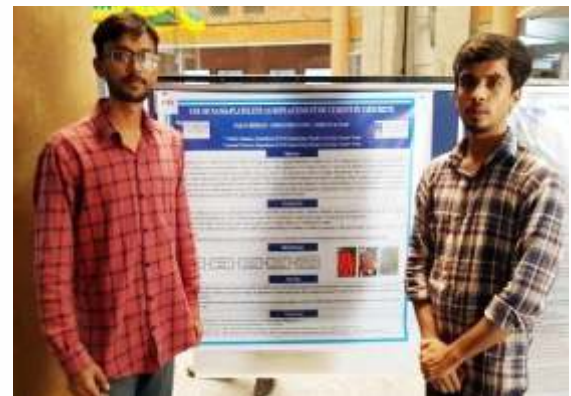
along with **Mr. Dharamraj**, **Mr. Sunil**, **Ms. Rani Astya** who are invited as Session Chair for the Conference.

- **Dr. Sandeep** was awarded Ph.D degree from NIT Durgapur on 11th November, 2018.



CIVIL ENGINEERING

- **Nishant Kumar** (Assistant Professor C.E.) has published a paper on "Non-Linear Dynamic Time History Analysis of Underground Rectangular Tunnel", International Journal of Technical Innovation in Modern Engineering & Science (UGC Approved), Vol. 04 Issue 10, ISSN: 2455-2585.
- **Sunil Saharan** (Assistant Professor C.E.) has published a paper on "Non-Linear Dynamic Time History Analysis of Underground Rectangular Tunnel", International Journal of Technical Innovation in Modern Engineering & Science (UGC Approved), Vol. 04 Issue 10, ISSN: 2455-2585.
- M. Tech. Environmental Engineering Student **Chandrika Singh** has presented a paper in “National conference on Advanced Structures, Materials & Methodology in Civil Engineering 2018” at NIT Jalandhar on 3rd-4th November, 2018.
- **Dr. Satya Prakash** (Prof. C.E. Department) has filed a patent on “A Non-Sand, Durable, Water-Permeable Concrete”.
- Total 15 no. of M.Tech. Students presented posters in the National Conference on Advances in Biotechnology: An Interdisciplinary Approach held at Sharda University on 2-3rd November 2018. Out of these 15 students, 5 students were from M.Tech. 1st year (Structural Engineering), 2 from 2nd-year M.Tech. (Geotech + Structure) and 8 were from M.Tech. 1st year (Environmental Engineering) students.



COURSES: FACULTY ACHIEVEMENTS

- **Megha Gupta** (Assistant Professor C.E.) has completed NPTEL Mooc course of 4 weeks on “Reinforced Concrete Road Bridges” conducted by I.I.T. Madras in September to October 2018.

- **Chhavi Gupta** (Assistant Professor C.E.) has completed a NPTEL Mooc course of 4 weeks on “Reinforced Concrete Road Bridges” conducted by I.I.T. Madras in September to October, 2018.



FDP AND WORKSHOPS

- A Software Workshop was organised by Ms. Megha Gupta (Assistant Professor C.E.) & Mr. Nishant Kumar (Assistant Professor C.E.) for the M.Tech. (Structural Engineering) students, both 1st and 2nd year & faculties on 15th September 2018, from 1:00-4:00 PM. The objective of the workshop was to introduce students to the various software that are currently being used in the design industry and also learn the application of the ETABS software on Civil Engineering problems. The speaker for the event was col. Vivek Shankar Mathur, Associate Professor(C.E.) who introduced ETABS software to the students and faculty members of Civil Engineering Department.



- Mr. Shamshad Alam** (Assistant Professor C.E.) had given a talk on "Stabilization of Dispersive Soil Using Biopolymer" to all the faculty members of Department of Civil Engineering on 27th October, 2018 at 11:00 AM-11:30 AM. The objective of the talk was to explore recent research area in the field of Civil Engineering.
- Mr. Pallav Paban Baruah, (Assistant Professor C.E.) had given a talk on "A Multi-Dimensional Subcontractor Evaluation Framework for Nonconventional Housing Systems" to all the

faculty members and students of the Department of Civil Engineering on 03/11/18 at 11:00 AM-11:30 AM. The objective of the talk was to explore recent research area in the field of Civil Engineering.

Mr. Shamshad Alam (Assistant Professor C.E.) was the coordinator for the talk.



VISITS

- The 12th edition of Renewable Energy India Expo 2018 was held at India Expo Centre, Greater Noida which commenced on 18th September and concluded on 20th September 2018. It is one of the largest platforms for the Indian and overseas entrepreneurs to showcase their innovative and energy efficient technologies with the active participation of more than 750 exhibitors from 48 nations. The Expo was organized by UBM India & it was a business to business (B2B) event. The event was visited jointly by the students of SET-MTech-Civil (Construction management & Environmental Engineering) on the 1st day of the event i.e. on 18th September 2018 guided by col. Vivek Shankar Mathur, (Associate Professor C.E.).



- One day educational trip was organized for the 5th semester students of B.Tech. Civil Engineering, Sharda University on 25th October 2018 as part of our community connect programme guided by Mrs. Pinaki Nayak (Assistant Professor C.E.). The visit was to the tunnel construction site at The India Trade Promotion Organization (ITPO)



complex at Pragati Maidan which was basically a CPWD project worked by L&T company.



- One day educational trip was organized for the 5th semester students of B.Tech. Civil Engineering, Sharda University on 25th October, 2018 as part of our community connect programme accompanied by Mrs. Chhavi Gupta (Assistant Professor C.E.). The location of the site is Lotus Arena residential building sector 79.



- One day educational village trip was organized for the 5th semester students of B.Tech. Civil Engineering, Sharda University on 25th October 2018 as part of our community connect programme accompanied by Mr. Sunil Saharan (Assistant Professor C.E.) and col. Vivek Shankar Mathur (Associate Professor C.E.). Village visit was organized of the students to two villages named Luksar and Atai near Kasna, Greater Noida.



PLACEMENT

- **Ms. Jinnat Saberin**, a student from 4th year CE got placed in M/S Bioruns Pvt. Ltd.
- **Raghwinder**, a student of 4th year CE got placed in a company named Capital Via.





ELECTRONICS & COMMUNICATION ENGG. / ELECTRICAL & ELECTRONICS ENGG.

INDUSTRIAL VISIT

- One day educational trip was organized for the 5th semester students of B.Tech. ECE, Sharda University on 20th September 2018. This trip was organized by Ms. Ritu Singh & Mr. Shailendra Tripathi. The visit was to Advanced Level Telecom Training Centre (AL TTC), Ghaziabad. AL TTC was set up as a joint venture of International Telecommunication Union, Geneva, UNDP and the Government of India in 1975. AL TTC functions on the frontiers of telecom technology, finance and management and imparts training to the leaders in the business.
- 
- One day trip to 2nd Global RE-Invest India isa Partnership (Meet & Expo), 2018, Greater Noida was organized for the faculties of of ECE, Sharda University on 5th October 2018 .The RE-Invest series of Investors' Meet & Expo hosted by the Ministry of New and Renewable Energy (MNRE), Government of India, showcases India's renewable energy potential and the Government's efforts to scale up capacity to meet the national energy requirement in a socially, economically and ecologically sustainable manner. The 2nd Global RE-Invest India-ISA Partnership Renewable Energy Investors Meet & Expo is set to be held from 3-5 October, 2018 at the India Expo Mart, Greater Noida. This edition will also host the First Assembly of International Solar Alliance (ISA) and the Meeting of the Energy Ministers of Indian Ocean Rim Association (IORA) countries. The event was visited jointly by the head of deptt Dr. Premananda Pany and Assistant Professor Ms. Manisha Rajoriya, Ms. Soma Deb and Mr Shailendra Tripathi.
 - One day educational trip was organized for the 7th semester students of B.Tech. ECE, Sharda University on 26th November 2018 .This trip was organized by Mr. Sabyasachi Mukherjee and Ms. Usha Tiwari. The visit was to Deki Electronics Limited B-20, Sector-58, Noida. A leading Capacitor manufacturing company. Philips, Hevels, GE are the major clients of the Deki Electronics. They manufacture Polyester Film capacitors, mixed dielectric film capacitors, Polypropylene film capacitors, and Ceramic capacitors.
- 



COMMUNITY CONNECT PROGRAMME



“Communication leads to community, that is to understanding, intimacy and mutual valuing.”

— *Rollo May*

The third year students of EEE & ECE departments are visited two places for the “Community Connect”. The first visit is visited on 2nd Nov, 2018 to a village Milak khandera dadri G. B. Nagar. In the visit, 26 students and two faculties (C Mohan & Rashmi Priyadarshini) have been participated. The following points have been discussed with village people.

- Problems in agriculture
- Problems in healthcare centers
- Problems in getting government schemes



The second visit was done on 21st Nov, 2018. In the second visit, the students visited Argus Polymers P Ltd at EcoTech III, Greater Noida. In the second visit, 25 students and two faculties (C Mohan & Usha Tiwari) participated. The students saw the following processes in the industry:

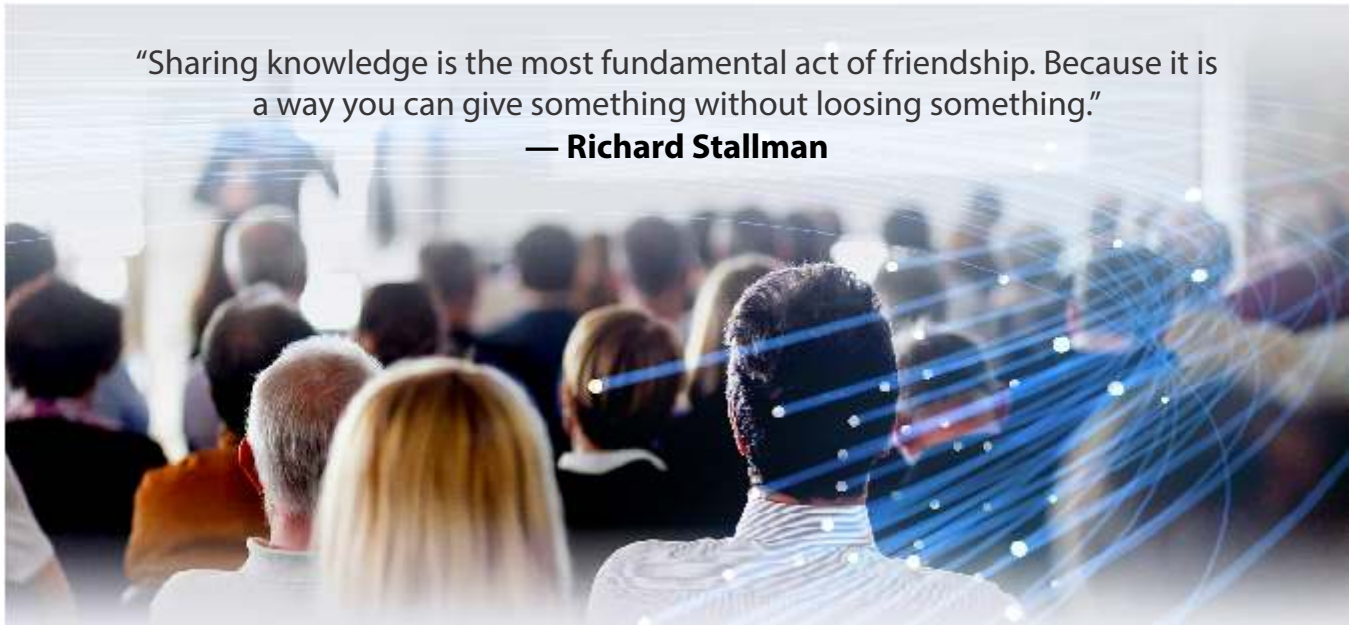
- Manufacturing of MCBS
- Manufacturing of Control Panel Indicating Lights
- Manufacturing of Polymers Electrical Parts



JOURNAL CLUBS MEETINGS

“Sharing knowledge is the most fundamental act of friendship. Because it is a way you can give something without losing something.”

— **Richard Stallman**

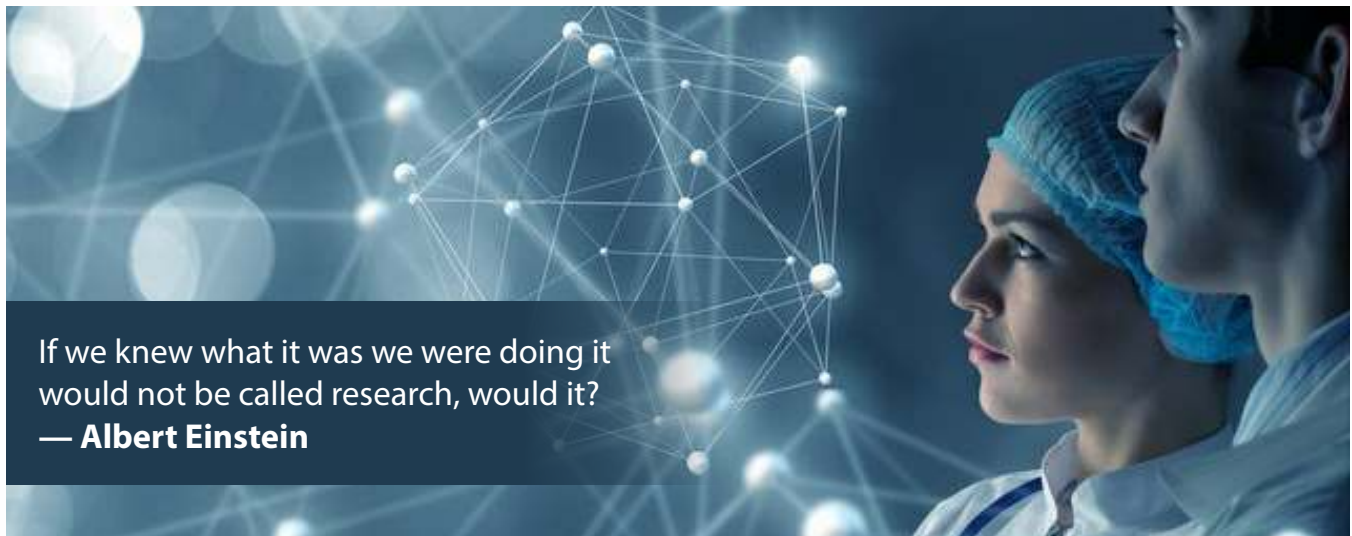


Reading and sharing knowledge embedded in the latest articles that appeared in forefront journals is an intellectual exercise. Such an exercise is an integral part of teaching and research.

PRESENTATION TOPIC	SPEAKAR	DATE
How to do Research and published articles in esteem journals	Prof. R. M. Mehra , Emeritus Professor ECE, SET	01-09-2018
Entangled Photons for medical Imaging	Prof. B. S. Panwar , Professor Dean Academics	15-09-2018
Initiation and conduct of research work and writing of research papers	Prof. H. K. Verma , Distinguished Professor EEE Department, Sharda University	15-10-2018
UMB Patch Antenna for Wireless Applications	Mr. Sandeep K. Singh , Assistant Professor at ECE department, Sharda University	13-10-2018
Distributed Generation	Mr. S. P. Jaiswal , Assistant Professor at EEE department, Sharda University	13-10-2018
Assistive and Enabling Technologies for elderly persons	Mr. C. Mohan , Assistant Professor at EEE department, Sharda University	13-11-2018
Mobile Adhoc Network Security “MANET”	Ms. Ritu Singh , Assistant Professor at EEE department, Sharda University	17-11-2018



RESEARCH



If we knew what it was we were doing it
would not be called research, would it?
— **Albert Einstein**

- M.Tech. Electronics Communication Engineering Students Ms. Sucheta & Ms. Subhra under the guidance of Assistant Professor, Ms. Manisha Rajoriya had published book chapter with following details.

"Design and Simulation of Photovoltaic Cell Using Simscape MATLAB" published as book Chapter no 56 in "Harmony Search and Nature Inspired Optimization Algorithms" Theory and Applications, ICHSA 2018. (July, 2018). DOI:10.1007/978-981-13-0761-4_56, Springer

- Assistant Professor Ms. Manisha Rajoriya had completed her research work at Centre for Nano Science and Engineering (CeNSE), Indian Institute of Science (IISc) Bengaluru under INUP Program & had published research papers with following details.

"Deposition & Study of AZO Hetero junction Schottky Diodes at Different Temperatures", Journal of Materials Science: Materials in Electronics (JMSE), Springer, Accepted on: October 1st, 2018. DOI: <https://doi.org/10.1007/s10854-018-0166-y>

- Assistant Professor Ms. Usha Tiwari presented a paper titled "Monitoring & Control of Real-Time Systems-An Analysis" at SEEMS-2018(International Conference on "Sustainable Energy, Electronics & Computing Systems) on 26th-27th October, 2018, the paper will be published in IEEE Explore.
- Assistant Professor Mr. Shashank Singh, Ms. Soma Deb, and Ms. Suman Lata attended and presented a paper in International Conference on Startup Ventures: Technology Developments & Future Strategies (SV-TDFS)

in Manipal University, Jaipur on 8th & 9th of October, 2018.

- B.Tech. Electronics Communication Engineering Students Mr. Mohit Singh under the guidance of Assistant Professor Ms. Rashmi Priyadarshani had published book chapter with following details.

"Electrical Conductivity Sensing for Precision Agriculture:" published as book Chapter no 62 in "Harmony Search and Nature Inspired Optimization Algorithms" Theory and Applications, ICHSA 2018. (July, 2018). DOI: 10.1007/978-981-13-0761-4_62, Springer





PLACEMENT



“The future belongs to those who believe in the beauty of their dreams.”

- **Subham Rana** a student of 4th year ECE Department got placed in a company named Capital Via.
- **Mr. Digvijay** a student of 4th year ECE Department got placed in Think and Learn BYJUS pvt ltd.
- **Mr. Satyam Sharma & Ms. Aishwarya Mohan** students of 4th year ECE Department got placed in Cavisson System.

EXPERT LECTURE/WORKSHOPS

- Department of ECE organized student interaction & expert talk on "Low multiplicative complexity logic design". by **Prof. Dr. Wong**, Dean, Engineering, from Heriot Watt University, UK on 14th November at Sharda University.
- Department of ECE organized a class room Workshop on **Drone Technology: Quadcopter Design in collaboration with Skifi lab**, Bangalore. The design of quadcopter allowing engineers to find better applications each day life. The proposed workshop is hands-on training on Quadcopter design. The students had practically understand the overall design, configuration and testing of the Quadcopter project. This workshop was coordinated by **Dr. Paritosh Dubey**.

EVENT OBJECTIVES

- Introduction to Rotary-wing aircraft
- Introduction to design & development of Multi Rotor Vehicles
- Understanding the Electronics circuitry involved in Quadrotor
- Learning about the working of accelerometer sensors, gyroscopes and controllers
- Hands-on experience for participants with DC motors, electronic speed controllers & Quadcopter Embedded control board





INDUSTRIAL VISIT

- Department of Mechanical Engineering, School of Engineering & Technology organized an Industrial Visit to Delhi Institute of Tool Engineering (Formerly known as Tool Room and Training Centre) Wazirpur, Industrial area, Campus-I, Delhi on 20th November 2018 (Tuesday) of M.Tech. Mechanical Engineering Students. Tool Room & Training Centre (TRTC) is Hi-Tech Vocational Training Centre (HTVTC) at Okhla Industrial Area New Delhi established, with technical and financial assistance of Government of Denmark and Government of Italy respectively, with the objective of contributing towards the development of industries in and around Delhi through supply of trained manpower, undertaking job work of machining and manufacturing of sophisticated tools.

Convener: Dr. Bhim Singh

Co-Ordinator: Dr. Anuj Kumar Sehgal & Dr. Himanshu Payal



- Department of Mechanical Engineering, School of Engineering & Technology organized an industrial visit to Jakson Engineers Ltd., Udyog Kendra, Greater Noida for the students of B.Tech. (2nd year) Mechanical Engineering on 14th Nov, 2018. Jakson Group is a leading energy and engineering solutions company offering a range of products and services that help customers effectively meet their energy needs in a safe and sustainable manner.

Convener: Dr. Bhim Singh, Co-Ordinator: Ms. Akanksha Mishra, Ms. Saigeeta Priyadarshini



- Department of Mechanical Engineering, School of Engineering & Technology organized the industrial visits to companies Any Packaging, Precision Polymer, Eco-Vision, Mold Spec, Innocolor, Surajpur, Gautam Budha Nagar, UP, on 16th November-2018 (Friday) as part of the Community Connect Industrial visit Programme.

Convener Detail: Dr. Bhim Singh

Co-Ordinator Details: Dr. Vineet Kumar, Mr. Shibamay Mitra





- Department of Mechanical Engineering (SET) had organized an industrial visit on 2nd Nov, 2018 to Eco Vision Pvt Ltd as part of the Community Connect. Located at plot no B-15 & 16 Site B, Surajpur industrial area, Greater Noida, UP for B. Tech. (3rd Year) Mechanical & Automobile Engineering students. The visit was organized with the prior Permission & guidance of Dr. Bhim Singh (HOD). Dr. Vineet Kumar & Mr. Shibamay Mitra were the co-ordinator for the whole industrial visit. Eco vision is a private small -scale industry owned by Mr. Jitendra Parik in the production/manufacturing of Pavers, Frames, Tiles etc.
- Department of Mechanical Engineering (SET) had organized an industrial visit on 2nd November, 2018 to INNO COLOR & COMPOUNDS PVT. LTD, F-49, Site-C, UPSIDC, Industrial Area, Surajpur, Greater Noida as part of the Community Connect. INNO COLOR COMPOUNDS PVT. LTD (ISO 9001:2008), a well known manufacturer of Master Batches and Polymer Compounds, has been marketing products with its brand "INNO". It is one of the growing & well known manufacturers of colour master batches, additive master batches & polymer compounds. It was established in 2003. The company visit provided the B.Tech. 3rd year students to explore the work process and equipments engaged in manufacturing of colouring compounds, polymer modification and use of different mechanical equipments.



- Department of Mechanical Engineering (SET) had organized an industrial visit on 2 Nov 2018 to Precision Polymer Pvt. Ltd. Located in E-19, Site C, Surajpur industrial area, Greater Noida, UP for B. Tech. (3rd Year) Mechanical & Automobile Engineering students. The visit was organized with the prior Permission and guidance of Dr. Bhim Singh (HOD) Dr. Vineet Kumar and Mr. Shibamay Mitra were the co-ordinator for the whole industrial visit. The department wishes to thank Mr. Parmod Gupta (CEO) of Precision Polymer Pvt. Ltd.
- The Department of ME, SET, Sharda University conducted an industrial visit of B.Tech III year students on 16.10.2018 to COVESTRO PRIVATE LIMITED, Greater Noida. The total of 43 students participated along with the faculty members, Dr. Anuj Kumar Sehgal and Dr. Vineet Kumar. The transportation facility and visit arrangements were governed by HOD (ME), Dr. Bhim Singh. The visit was concluded after the interactive session made by Mr. Sandeep Yadav, Head Corporate Training, COVESTRO PRIVATE LIMITED.

*Convener Detail: **Dr. Bhim Singh***

*Co-Ordinator Details: **Dr. Anuj Kumar Sehgal & Dr. Vineet Kumar***





COMMUNITY CONNECT VISIT

Department of Mechanical Engineering (SET) had organized an Community Connect visit on 1.11.2018 to Amarpur Village, Greater Noida, UP for B.Tech. (3rd Year) Mechanical & Automobile Engineering students. The visit was organized with the prior Permission and guidance of Dr. Bhim Singh (HOD). Dr. Vineet Kumar and Mr. Shibamay Mitra were the co-ordinator for the whole community connect visit.

Excursion study livelihood of Village area People

Objective of the Trip:

- To study poverty level and literacy rate of that village
- Equipment they are using for agriculture & irrigation system
- To know whether they are aware of various funding & facility given by government to uplift living standard of people staying in village area.
- Drainage system and measure they have been following to achieve healthy life.

Finding:

The village where the students visited was 10 years back than our modern India. The living standard of people living in that locality was worst then what the students were expecting before visit. Following points are the observation that were made after interacting with people of that locality.

- Most of family are below poverty line as per central government of Indian income of less than \$1.90 (Approx. 50K INR per year) per day is poverty line, but people staying there hardly earn 30K INR per year.
- Almost 85% people were illiterate in that village.
- People of that village still using conventional technique for the agriculture, only few were aware of modern agriculture tool like Plow, planter, cultivator Harrow, mower so on.
- They were using hand pump and well for the irrigation of their field.
- No one of that village were aware of various government scheme like Pradhan Mantri Fasal Bima Yojana, Paramparagat Krishi Vikas Yojana, Energy-efficient irrigation etc.
- Improper and narrow drainage system.
- There were not a single medical store for people of that locality, still they are following traditional method or they need to travel 20 Km for modern health facility

- For education only one school was there where student can study up to grade eight, also family didn't allow their child to go to school.
- No transport facility.

Possible solution to improve their livelihood:

- Launched public awareness campaign in that village.
- Mobilize mechanical engineering student to aware villager about modern mechanical equipment for effective and high agriculture production rate.
- Established school/college and health post in their locality.
- Government should check on regular basis whether citizen are aware about their scheme or not in village area.
- Modern drainage technique needs to be introduced & make people aware about consequence of improper drainage system.
- Encourage family to send their child to school for education
- Government should work for their transport facility.
- Government should Reward people who are adopting modern technique for improving livelihood that encourage others to follow their path etc.





SEMINAR

Department of Mechanical Engineering, School of Engineering & Technology organized a seminar on "Energy Conservation" on 19th November, 2018 at Room No. 109, Block 1, Sharda University. The eminent speaker Mr. B.V. Raisinghani (Consultant/Advisor/Infrastructure Coach chartered Engineer) with 44 years of vast professional engineering experience in execution, procurement pertaining to construction, power reality, cement fertilizer, coal delivered the technical talk with the objectives to enhance awareness of energy conservation and to make participants aware of the latest trends in technology development to optimize time & cost schedule.

Convener: Dr. Bhim Singh

Co-Ordinator: Ms. Akanksha Mishra and Ms. Saigeeta Priyadarshini



FACULTY DEVELOPMENT PROGRAMME

Department of Mechanical Engineering, School of Engineering & Technology is organizing three days Faculty Development Programme on "**INNOVATION IN MECHANICAL DESIGN AND MANUFACTURING**" from 25th-27th October, 2018. Mr. Naresh Bhagat, CEO at Le Logix Design Solutions Pvt. Ltd, Greater Noida delivered the expert lecture with Ms. Gayatri Raghu, Autodesk Education Programme Manager for Vinsys IT Services Pvt Ltd and Mr Sonu Prakash, Business Manager at PATRON Solutions Private Limited, Noida. The aim of this FDP is to impart knowledge on emerging trends of CAD/CAM techniques in Mechanical Engineering through hands-on practical sessions. The members of committee are Ms. Saigeeta Priyadarshini, Dr. Ananda Babu, Dr. Vineet Kumar, Dr. Anuj Kumar Sehgal, Dr. Nitin Tom Mathew, Dr. Himanshu Payal, Ms. Akanksha Mishra, and Mr. Akash Tyagi. **ADVISORY COMMITTEE: Prof. Dr. Parma Nand, Dean, Prof. (Dr.) Vijay Gupta, Distinguished Professor ME & Prof. (Dr.) Bhim Singh, Professor & Head ME School of Engineering & Technology.**

STUDENT'S ACHIEVEMENT

An initiative was taken up by Dean SET, HOD (M.E) with Mr. Mahesh Munjal and Team, CII Majestic to promote the skill through inter-college engagement with the theme of "SKILL WILL LEAD".

CII Majestic "SKILL WILL LEAD" Competition at KIET Ghaziabad, held on 20th September, 2018:

Mr. Faisal Ahmed, Mr. Keshav Subeidi, Mr. Munendra Sharma and Mr. Tilak Rana, B.Tech. V Semester B.Tech. ME students participated with the topic "Hydraulic, Pneumatic and Power Presses" in the first phase of CII Majestic "**SKILL WILL LEAD**" Competition at KIET Ghaziabad, held on 20th September, 2018. The participation of qualified students was initiated for participation on behalf selected universities/colleges of NCR. Sharda University, Amity University, IMS Ghaziabad, AKG Engineering College and KIET Ghaziabad were selected. The visit was coordinated by Dr. Vineet Kumar (Assistant Professor), DoME, SET, Sharda University and under the supervision of Prof. Dr. Bhim Singh.

CII Majestic "SKILL WILL LEAD" Competition at Sharda University, held on 22th October, 2018:

Mr. Mayank Chaudhary (4th Year), **Mr. Pramudit Arya** (4th Year), **Mr. Amartya Mehrotra** (4th Year) and **Mr. Faisal Ahmed** (3rd Year) B.Tech. ME students participated with the topic "7 Wastes" and won the Third Position with cash prize of INR 10000.00 in CII Majestic "**SKILL WILL LEAD**" Competition at Sharda University, held on 22th October, 2018. The event was organized by Professor Dr. Bhim Singh (HOD) & other faculty members in the department of ME, SET, Sharda University.





*CII MAJESTIC "SKILL WILL LEAD" COMPETITION AT
AKG ENGINEERING COLLEGE, HELD ON 25th Oct, 2018:*

Mr. Mayank Chaudhary (4th Year), **Mr. Amartya Mehrotra** (4th Year), **Mr. Faisal Ahmed** (3rd Year) and **Mr. Nilanjan Das** (2nd Year) B.Tech. ME students participated with the topic "CNC Machine", won the Second Position with cash prize of INR 15000.00 in CII Majestic "**SKILL WILL LEAD**" Competition at AKG Engineering College, held on 25th October, 2018. The visit was coordinated by Mr. Abhishek Bhattacharya (Assistant Professor), DoME, SET, Sharda University and under the supervision of Prof. Dr. Bhim Singh.



PUBLICATIONS

- **Mr. Noel Vinsent Chand**, M.Tech. student (Batch 2016-18) participated and presented the research paper entitled "An Analysis of a Duct with Different Vortex Generators for Performance Enhancement of a Solar Air Heater Using CFD" in "Future Learning Aspects of Mechanical Engineering" international peer-reviewed academic conference (FLAME 2018) held at Amity during 3rd-5th October 2018. The research was carried under guidance of Dr. Vineet Kumar and Dr. Anuj Kumar Sehgal, Assistant Professor in Department of ME, SET, SU.
- **Himanshu Payal** (Assistant Prof. in School of Engineering, Sharda University Mechanical Department) presented the paper titled "Study of MRR and TWR in Electric Discharge Machining of AISI D2 Tool Steel" at 1st International Conference on Future Learning Aspects of Mechanical Engineering (FLAME-2018), Amity University Uttar Pradesh, Noida October 3rd-5th, 2018.
- **Gupta Aman, Sehgal Anuj Kumar, Kumar Vineet, & Kumar Nitesh** presented the paper titled "Assembly of Mechanical Parts In Vitrual Environment" at 1st International Conference on Future Learning Aspects of Mechanical Engineering (FLAME- 2018) , Amity University Uttar Pradesh, Noida October 3rd-5th, 2018.
- **Chand Noel Vinsent, Kumar Vineet & Sehgal Anuj Kumar** presented the paper titled "An Analysis of a Duct with Different Vortex Generators for Performance Enhancement of a Solar Air Heater Using CFD" in "Future Learning Aspects of Mechanical Engineering" international peer-reviewed academic conference (FLAME 2018) held at Amity during 3rd-5th October 2018.
- **Gupta Abhishek, Kumar, Vineet, Sehgal, Anuj Kumar** presented the paper titled "Experimental Investigation on A Solar Thermal Energy Packed Bed Sensible Heat Storage Combined With Latent Heat Storage" in "Future Learning Aspects of Mechanical Engineering" international peer-reviewed academic conference (FLAME 2018) held at Amity during 3rd-5th Oct, 2018.



AWARDS AND ACHIEVEMENTS OF FACULTY

Dr. Anuj Kumar Sehgal attended the 16th convocation and was honored with the Doctorate in Mechanical Engineering at NIT Kurukshetra on 15th November, 2018.

Dr. Anuj K Sehgal receiving his Doctorate in ME at NIT Kurukshetra on 15th November, 2018



JOURNAL CLUBS MEETINGS

Sharing knowledge is not about giving people something or getting something from them. That is only valid for information sharing. Sharing knowledge occurs when people are genuinely interested in helping one another develop new capacities for action; it is about creating learning processes.

- Peter Senge



PRESENTATION TOPIC	SPEAKAR	DATE
Mechanical Characterization of Composite Materials using Conventional Mechanical Testing and Vibration Testing	Dr. Ananda Babu Associate Professor, ME, SET	01-09-2018
Mechanical Micromachining	Nithin Tom Mathew Assistant Professor, ME, SET	15-09-2018
Evaluation the Rheological Behaviour and Environment Impact Potential Hazards Risk of Disposed F-Type Fly Ash from Thermal Power Plant	Dr. Gurprit Singh Assistant Professor, ME, SET	29-09-2018
Recent Advancements in Electrochemical Micro machining (ECMM) process	Mr. Aakash Tyagi Assistant Professor, ME, SET	13-10-2018
Lean manufacturing and its applications in context to Indian manufacturing Industries	Dr. Bhim Singh Professor and Head, ME, SET	13-10-2018
Modelling of machining parameters for milling & turning of spheroidal graphite iron using response surface methodology and artificial neural network	Dr. Anuj Kumar Sehgal Assistant Professor, ME, SET	03-11-2018
Application of '3D printing'	Vineet Kumar Assistant Professor, ME, SET	17-11-2018



**SCHOOL OF
ENGINEERING & TECHNOLOGY**

WAVE NEWSLETTER LENGTH

ISSUE 3: SEPTEMBER, 2018 - NOVEMBER, 2018



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Anuj Kumar Sehgal, *SUSET, Assistant Professor, ME & Automobile Deptt.*
