

## INSIDE

### SCHOOL OF ENGINEERING & TECHNOLOGY

- ICAAAIML 2020 • Best Dean of the Year Award • Industry Champions Program
- Memorandum of Understanding between National Productivity Council (NPC), New Delhi & Sharda University, Greater Noida • Orientation Program for 1st year SET
- Industry Expert lecture during Orientation Program
- SET Students Achievements School of Engineering Student's Contribution: To Fight Against Covid 19
- Delta 3.0 • Automatic Sanitiser Dispenser • Smart UVC Box • NASA Marshall Space Flight Centre Competition

### BIOTECHNOLOGY ENGINEERING

- Vision of Biotechnology Department
- Mission of Biotechnology Department
- Faculty as Resource Persons of Webinars, Events and Workshops
- Vision of Biotechnology Department
- Student Achievements • Events/Webinars

### CIVIL ENGINEERING

- Students' Achievements • Placements

### COMPUTER SCIENCE AND ENGINEERING

- Vision of the Department • Mission of the Department
- Posters of our Webinar • Posters of our Webinar
- Student Achievement • MOU's • Faculty Achievement
- Workshops/FDP's/Invited Talks

### ELECTRONICS & COMMUNICATION ENGINEERING

#### ELECTRICAL & ELECTRONICS ENGINEERING

- PAPERS PUBLISHED (FACULTY HIGHLIGHTED)
- FACULTY AS RESOURCE PERSONS OF WEBINARS
- EVENTS AND WORKSHOPS
- STUDENT ACHIEVEMENTS

### MECHANICAL & AUTOMOBILE ENGINEERING

- Department Achievements

### EDITORIAL TEAM



**SCHOOL OF  
ENGINEERING & TECHNOLOGY**

# WAVE NEWSLETTER LENGTH

ISSUE: AUGUST TO OCTOBER, 2020



## FROM DEAN'S DESK

### ***Dear Readers, Greetings of the season!***

First of all, SET extends a gracious and hearty welcome to all of its first-year students. On behalf of Sharda family, I welcome them all in a convivial campus. In the same spirit, I am pleased to brief the various students' activities and faculty achievements of SET for the period August 2020 to November 2020.

The main highlights of this edition are "International Conference on Advances and Applications of Artificial Intelligence & Machine Learning", and students' contribution/ achievements for society to help it fight against Covid 19. Believing in golden words of Dr. A.P.J. Abdul Kalam: "Confidence and hard-work is the best medicine to kill the disease called failure", our students have worked day and night and developed machines to help society during this pandemic. "Leadership and learning are indispensable to each other", expressed John F. Kennedy. True to this sense, our school has arranged many webinars for our students and faculties.

Thank you for sparing time to read and appreciate the achievements of SET and for your continued support which keeps us scaling new heights.

**Dr. Parmanand**

*Dean, School of Engineering & Technology*



## SCHOOL OF ENGINEERING & TECHNOLOGY

### ICAAAIML 2020

***International Conference on Advances and Applications of Artificial Intelligence & Machine Learning” on 29th - 30th October, 2020***

School of Engineering and Technology, Sharda University, Greater Noida, India, one of the pioneer institutions in the field of Engineering, Research and Technology organized Two Days ICAAAIML-2020 International Conference on Advances and Applications of Artificial Intelligence & Machine Learning” on 29th-30th October, 2020 in association with University of Cape Town, South Africa, Iberian Association of Information Systems & Technologies, and University of Craiova, Romania. Conference was technically co-sponsored by Springer India Limited. The Inaugural function of the conference was held at 11:00 AM on 29th October, 2020 at AnandSwaroop Auditorium, Sharda University in auspicious presence of Prof. (Dr.) S. N. Singh, Former Vice-Chancellor Madan Mohan Malviya University of Technology, Gorakhpur, India, IEEE India Council Chair 2020 and Guest of honour Prof. (Dr.) R. Logeswaran, Dean of Postgraduate Studies, Asia Pacific University of Technology and Innovation, Malaysia. Addressing the curtain raiser, General Chair and Dean of School of Engineering and Technology Dr. Parma Nand said



that this is the first one of a new series of annual academic conferences exploring how artificial intelligence and machine learning could be effectively utilized in teaching, learning, educational administration, and various other fields of practical importance. Shri P. K. Gupta-Chancellor of Sharda University was also present along with other dignitaries during the inaugural function of the conference. Dr. Parma Nand also conveyed his thanks to the members of organizing committee- Dr. Ankur Choudhary, Dr. Arun Prakash Agrawal, Dr. Vishal Jain, Dr. Gaurav Raj & Mr. Abhishek Singh Verma.

The objective of this conference was to bring the scholars, scientists, industrialists from all over the world in the IT industry to a common platform to present the on-going researches in the field and hence to foster research relations between the Universities and the industry and Exposing the audience to the need for more development and research in the field and with it the growing need for IT security. This was the first one of a new series of annual academic conferences exploring how artificial intelligence and machine learning could be effectively utilized in teaching, learning, educational administration, and various other fields of practical importance. The Conference adopts a timely theme “Advances and Applications of Artificial Intelligence and Machine Learning”. Artificial Intelligence has penetrated into virtually all the areas of our day to day life. To effectively benefit from technology applications, it is essential that education professionals set themselves ready for transforming their practices and keep identifying effective ways for transformations in their contexts.

During two days participants witnessed eight engaging paper presentation sessions, four keynote speeches and one panel discussion on the theme “Role of AI in Education 4.0”. Conference attracted high interest from the community. The Springer sponsored ICAAAIML- 2020 received a good participation of more than 250 manuscripts from across the globe. With a well-defined review process and multiple review cycles, 57 papers were selected for the presentation during the ICAAAIML 2020 with an acceptance ratio of less than 25%. All the accepted and presented papers during the Conference will be available in prestigious Lecture Notes in Electrical Engineering series (<https://www.springer.com/series/7818>) and will be listed in Scopus.



## Best Dean of the Year Award

*Innovation distinguishes between a leader and a follower."*

**Steve Jobs, Apple co-founder**

We heartily congratulate our dean Prof.(Dr.) Parma Nand, School of Engineering and Technology for being awarded as Best Dean of the Year Award (Above 40 years) at 2nd International Academic and Research Excellence Awards (IARE) 2020 by GISR Foundation to honour and acknowledge extraordinary talents from all walks of life.



## Industry Champions Program

Industry 4.0 cell had organized a 1-week FDP "Industry Champions Program (ICP)" for faculty, w.e.f 23rd to 29th October 2020. Objectives of Event :The objective of the program to empower the Faculty to become the part of "Paid Consultancy Projects" and start creating values as well as converting these projects into Case Studies.

**Conveners:** Prof. Parma nand (DEAN, SET) & Mr. Raj Nidhi Sharma (Head Industry Interface)

**Coordinators:** Dr. Pallavi Gupta, Associate Professor ECE SET & Dr Gautam, Associate Professor SOLC

## Memorandum of Understanding between National Productivity Council (NPC), New Delhi & Sharda University, Greater Noida

The aim of this MoU is primarily to establish an overarching framework under which both the organizations may enter into more specific agreements to perform collaborative programmes to fulfill objectives of Center of Excellence on IT for Industry 4.0 (CoE:IT for I4.0) in order to create awareness & implementation of Industry 4.0 among manufacturing industries in India. Apart of awareness program, both organizations will work towards the Academia-Industry.





## Orientation Program for 1st year SET

School of Engineering and Technology organized Virtual Orientation Program on 13th October, 2020 to wholeheartedly welcome new members of the SET. The primary purpose of the orientation program was to help the new undergraduates understand the nature of the institution, the educational opportunities available to them, the values and functions of the organization, and the central objective of the University as an academic enterprise. The program started with an introductory lecture by Prof. Megha Chhabra where the students were briefed about the work culture, achievements and accolades of SET. Prof. Parma Nand, Dean SET, congratulated the students for the new beginning and introduced the academic and research aspects of the school. He suggested the students to work in group and carry out brainstorming in order to find innovative solutions to common problems existing in the society. The students were motivated to think beyond the curriculum and try to attain the ultimate goal of education, that is, nation building.

All the Head of Departments, Dr. Amit K. Singh, Dr. Gaurav Saini, Prof. Nitin

Rakesh, Dr. Premanand Pany and Prof. Bhim Singh presented an overview of their respective departments. The students were introduced to the Teaching, Learning, Innovation, Research, Clubs, Students Centric Activities etc. Finally, a glimpse of vast industrial opportunities lying ahead post joining the course was demonstrated by Mr. Raj Nidhi Sharma. List of several collaborative work going on between different industries and students from Sharda University was displayed demonstrating the strong industry-academic culture that exists in the school. It was a successful and fruitful orientation which provided complete knowledge and understanding to the new batch of students. The orientation program was attended by 250+ attendees.



## Industry Expert lecture during Orientation Program

- **Mr. Rakshit Tandon Cyber Security**

Mr. Rakshit Tandon, Cyber Security Evangelist has experience of more than a decade in Security Domain. Chairing and part of various Important Security Councils and Chapter. He is Cyber Security Consultant to Internet and Mobile Association of India. Marked as Resource Person/Faculty for Cyber Crime Investigations at BPRD Bureau of Police Research.

- **Ms. Shweta Berry, Aries**

Specialist in IoT & Emerging Technologies Marketing, Communications, Influencer & Social Media Marketing & a Content Strategist. Work closely with C-Suite in designing & implementing the communications strategy for India, SAARC & APAC. 19+ years of Work Ex with multiple MNC's (Tech Mahindra, NIIT Ltd.), mid-tier(MagnaQuest) & start-ups.  
Shri. Venkatesh NSDC

- **Shri. Amit, AWS**

Accomplished business leader offering over 22 years of experience in the Education management & Skill development segment, driving revenue through building and maintaining client relationships. Creative and dynamic marketer with proven expertise in consistently penetrating new markets to ensure sustainable revenue growth.

- **Mr. Surendra Kumar, CEL**

Currently, Mr. Surendra Kumar is a Chief Manager (Microwave Electronics Division) in CEL (Central Electronics Limited), Ghaziabad. He has been supervising a team of 115 members. He has also accomplished 6 successful software releases in the last 3 years.



### SET Students Achievements

### School of Engineering Student's Contribution: To Fight Against Covid 19



### Delta 3.0

Nishant Sharma students of B.Tech. 2nd year, CSE under the guidance of Prof. Dr. Parma Nand Astya, Prof. Dr. Nitin Rakesh and Dr. Ali has created a robot named Delta 3.0. After his invention he received funding for 8 robots by the government (D.M. of Bulandshahar) for various hospitals to help the doctors.





## Automatic Sanitiser Dispenser

Mr. Sudhanshu Sharma student of 2nd year Electronics Communication Engineering SET, has designed and developed an automatic sanitizer dispenser to fight against COVID 19. He is doing his work under the guidance of dean SET Dr. Parma Nand. It is small compact device with smart operation (A DEVICE WHICH IS USED TO SANATISE HANDS WITH CONTACT FREE OPERATION"). It is also patented by Sharda University (15 machines are installed inside Sharda University from ECE Deptt. SET).



## Smart UVC Box

Mr. Sudhanshu Sharma student of 2nd year Electronics Communication Engineering SET has designed Smart UVC BOX which is capable of killing COVID 19 virus by using UVC germicidal lamp with 25nm wavelength (in contact free mode). Box lid opening and closing is automatically operated by servo and micro controller. This work is done under the supervision of Dr Parma Nand Dean SET.





## NASA Marshall Space Flight Centre Competition

The 26th annual challenge, managed by the Office of STEM Engagement at NASA's Marshall Space Flight Center in Huntsville, Alabama, was held on April 17-18, 2020, at the U.S. Space & Rocket Center in Huntsville. It is one of the six Artemis Student Challenges the NASA hosts to engage, inspire and help develop the next generation into science, technology, engineering & math.

Sharda University decided to participate in the event this year. After the confirmation of registration was received from NASA, the University paid the entire cost of designing, modelling and testing the rover. This is the maiden attempt of the University in an International Competition. The selected team consists of 7 student members, who are as follows:-

- Soumendu Dutta, Team Captain and in charge of Assembly & Power train.
- Anza Sultan, Technical and Documentation Department
- Sankalp Sharma, Wheel and Handling department
- Saqlain, Wheel and Handling department
- Mudasir Ahmad Mir, Braking department
- Pankaj Singh, Designing Department
- Atif & Akash, Technical and Software department







## BIOTECHNOLOGY ENGINEERING

### Vision of Biotechnology Department

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

### Mission of Biotechnology Department

- M1:** To adapt and update students with rapidly changing technologies through self- improvement with continuous learning and professional ethics.
- M2:** To enable students for community-collaborative learning processes beyond classrooms in various disciplines of biotechnology.
- M3:** To conduct cutting-edge multi disciplinary research in plant, animal, medical, industrial, microbial and environmental biotechnology.
- M4:** To motivate and train students for industrial practices, higher studies and entrepreneurship.

### Faculty as Resource Persons of Webinars, Events and Workshops



Dr. Saurabh Jha and Dr. Amit K Singh organised webinar with Sharda University Alumnus Mrs. Ankita Dwivedi Mishra on 9th June, 2020



Dr. Saurabh Jha and Ms. Monika Jain organised Coffee with Star Alumni with Dr. Nilisha Pokhrel on 15th May, 2020.

Dr. Richa Sharma delivered an invited lecture on “Bibliography, reference & citations management-essential part of research writing” on 6th July 2020, for virtual FDP organized by University of Agricultural Sciences, Dhadwad, Karnataka.



## Vision of Biotechnology Department

SHARDA UNIVERSITY  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
INVITES YOU FOR A STAR ALUMNI WEB-TALK ON  
**GLIMPSES OF THE WORLD OF MOLECULES**  
22th June, 2020 | 11.00 AM TO 11.40 AM | Zoom meeting

Speakers:  
Mr. Arjun Bhatta  
Prof. Parnas Hand  
Dr. Anil Kumar Singh  
Dr. Saurabh Kumar Jha  
Ms. Monika Jain

- **Ms. Monika Jain, Dr. Saurabh Jha and Dr. Amit K Singh** organised webinar “Glimpses of the world of molecule” with Sharda University Alumnus Mr. Arjun Bhatta on 22nd June, 2020.

SHARDA UNIVERSITY  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
INVITES YOU FOR A WEBINAR ON  
**P3 MEDICINE COULD TRANSFORM HEALTHCARE**  
18th June, 2020 | 2:00 PM TO 4:00 PM

Speakers:  
Dr. Chakraborty Basu  
Prof. Parnas Hand  
Dr. Anil Kumar Singh  
Dr. Saurabh Kumar Jha  
Dr. J. Muthukumar

- **Dr. J. Muthukumar, Dr. Saurabh Jha and Dr. Amit K. Singh** organized Webinar on “P3 medicine could transform healthcare” on 18th June, 2020

- **Dr. Richa Sharma, Dr. Monika Jain, Dr. Saurabh Jha & Dr. Amit K. Singh** organized “Virtual Farewell” for B.Tech. Biotech 2020 Passout batch on 21st June, 2020.
- **Ms. Monika Jain and Dr. Amit K. Singh** were Resource Persons for a webinar by Genetics Trust - Refresher Course for Biology Teacher, on 15th June 2020
- **Dr. Sachin Teotia** was the Speaker for a Lecture series on contemporary issues in biosciences organized on 22nd June, 2020 by Central University of Bihar, Motihari. His talk was titled “CRISPR/Cas9 System: an efficient approach to genome editing for crop improvement”



## Student Achievements

Mr. Aditya Narayan Jha has been short-listed for Internship at the premier food research institute, CSIR-Central Food Technological Research Institute, Mysore.



## CIVIL ENGINEERING

Faculty Name	Achievement
<b>Dr. Gaurav Saini</b> (HoD, CE)	<b>RESEARCH PAPER</b> <ul style="list-style-type: none"><li>Published research Paper on 'Preparation and characterization of lipopolysaccharide (LPS) monolayers for investigating their role in bacterial adhesion' <i>Materials Today: Proceedings</i>, 2020, <a href="https://doi.org/10.1016/j.matpr.2020.05.189">https://doi.org/10.1016/j.matpr.2020.05.189</a></li><li>Published a review paper on 'Use of natural coagulants for industrial wastewater treatment', <i>Global J. Environ. Sci. Manage.</i> 6(4): 553-578, Autumn 2020. <a href="https://dx.doi.org/10.22034/gjesm.2020.04.10">https://dx.doi.org/10.22034/gjesm.2020.04.10</a></li></ul> Published research article on 'Implementation of data intelligence models coupled with ensemble machine learning for prediction of water quality index' <i>Environmental Science and Pollution Research</i> , 2020. <b>PATENT</b> <ul style="list-style-type: none"><li>A patent has been granted to Dr. Gaurav Saini (HoD, CE) for an invention entitled "Method of processing sludge-containing composition to produce fertilizer". Patent no.-345602, Application no.-201711038191.</li></ul>
<b>Dr. Satya Prakash</b> (Professor, CE)	<b>RESEARCH PAPER</b> <ul style="list-style-type: none"><li>Dr. Satyaprakash (Professor, CE), Shikha Saini, Mohit Raja Srivastava, Fida Anjum, have published a paper on 'Replacement of water with used engine coolant and its effect on the mechanical properties of hardened concrete' <i>Materials Today: Proceedings</i>, 2020. <a href="https://doi.org/10.1016/j.matpr.2020.01.541">https://doi.org/10.1016/j.matpr.2020.01.541</a></li><li>Dr. Satyaprakash (Professor, CE) &amp; Pinakana Sai Deepak (B.Tech. 2nd year student) has published an article on COVID-19 India prediction model based on the trend from other countries' <i>Preprints</i>, June 2020.</li></ul> <b>PATENT</b> <ul style="list-style-type: none"><li>Dr. Satya Prakash (Professor, C.E), Mandil Bahadur Thapa (4th-year student, C.E) have filed a patent on the topic 'AN APPARATUS AND METHOD FOR AUTOMATED LAYING OF BRICKS', dated 1st July, 20. The present invention generally relates to the construction of high-rise structures. More particularly, it relates to an apparatus and method for laying bricks automatically or semi-automatically. Ref No.: 202011028066, Application Number: TEMP/E-1/31233/2020-DEL</li></ul> <b>NOMINATION</b> <ul style="list-style-type: none"><li>Nominated as a GIS expert member to the Accreditation Committee as Prospecting/Exploration Agency (APA) and Mining Plan Preparing Agency (MPPA) for Coal Exploration by National Accreditation Board for Education and Training (NABET), Quality Council of India wef 1<sup>st</sup> August, 2020 for two years.</li></ul>



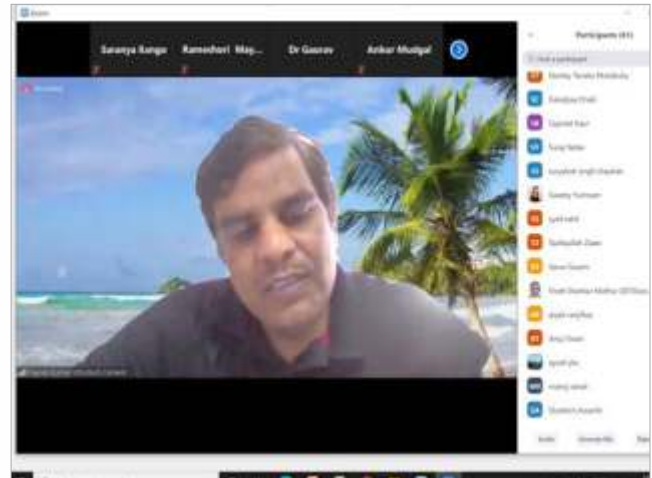
Faculty Name	Achievement
<p><b>Mr. Nishant Kumar</b> (Assistant Professor)</p>	<p><b>RESEARCH PAPER</b></p> <ul style="list-style-type: none"> <li>• Book Published title Impact of Polycarboxylic Ether Based Superplasticizer on Concrete, ISBN: 9786202803168, Publisher: Lambert Academic Publishing, Germany.</li> <li>• Attended the Panel Discussion on National Education Policy 2020: Challenges and Way forward for Higher Education held on 5th September 2020.</li> </ul>
<p><b>Dr. Prasenjit Saha</b> (Assistant professor)</p>	<p>Has been awarded the provisional degree of Doctorate of Philosophy (Ph.D.) by NIT Silchar (Assam) on 14th March 2020 on the topic 'Cyclic Behaviour SCC Beam-Column Joint using Rectangular Spiral Reinforcement Arrangement'.</p>
<p><b>Ms. Sukalpaa Chaki</b> (Assistant Professor)</p>	<p>Ms. Sukalpaa Chaki (Assistant professor, C.E) has delivered an expert lecture in the Online Webinar on "Unit Processes and Unit Treatment Involved in Waste Water Treatment" organized on 11th May 2020 by the Department of Civil Engineering, Engineering College Jhalawar, Rajasthan under TEQIP-III during this pandemic COVID 19 to enhance learning for students.</p> <div data-bbox="483 1087 906 1591" data-label="Image"> </div> <div data-bbox="927 1087 1442 1591" data-label="Image"> </div>
	<p>Department of CE has welcome 3 new faculties Prof. (Dr.) Anamika Paul, Dr. Sameer Arora and Dr. Dipanjan Mukherjee on the month of August.</p>



## Events/ Webinars

Department of Civil Engineering, SET organized an online webinar for B.Tech. 2nd and 3rd yr. students on 'Challenges and Opportunities in Civil Engineering', on 7th May'2020.

Prof. Dr. Parma Nand (Dean, SET), was the convener of the event. Mr. Rajeeb Kumar, (Zonal Head Technical East and North Ultra Tech concrete), was the speaker of the event and 60 students participated in this event.



Department of Civil Engineering, SET organized an online webinar for UG/PG students through google meet platform on 'Gender equality & Sensitization', on Saturday, 30th May, 2020. Dr. Kumar Gautam Anand was the speaker of the event and 69 participants attended this webinar along with students and faculties. The objective of the event was to introduce the concept of gender equality to our students and staff members and sensitize them regarding this key issue.



Department of Civil Engineering, SET, has organised an Online e-Faculty Development Program (FDP) on Engineering Contracts and Dispute Resolution on July 14, 2020 – July 18, 2020, to develop skills required in the preparation of engineering contracts and dispute resolution.

### Event Objectives

- Appraise the users with the provisions of contracts of government and public sector.
- Develop the finer nuances of various types of contracts.
- Elaborate the legal provisions covering contracts and dispute resolution.
- Discuss methods and procedures of dispute resolution.
- Demonstrate estimation and billing procedures.





## Students' Achievements

Ms. Samina Nausrat Naveed (M.Tech. student C.E) has been awarded the best presentation title given on the topic "Sacrificial cathodic protection method of reinforcement from corrosion: A Review", by the organizing committee of International Conference on Recent Advances in Engineering & Science (ICRAES 2020) held from 11th -12th, January 2020. The Conference was jointly organized by University Polytechnic, Faculty of Engineering & Technology, Aligarh Muslim University, Aligarh in Collaboration with Council for Productive Education & Research, Noida.



Ms. Priya Agarwal, C.E. M.Tech. student received the Best Oral Presentation Award at NCFM-2020 on the topic 'Use of Moringa Oleifera and Benincasa Hispida for volume reduction of waste Drilling Slurries' and a cash reward amount of Rs. 2500.



## Placements

Mr. Akash Aman, 4th-year students of B.Tech. Civil Engineering has been placed in Byjus-THINK AND LEARN PVT.LTD with a package of 10LPA through campus interview held at Sharda University campus. The department congratulates and wishes her a successful and bright future.



## COMPUTER SCIENCE AND ENGINEERING

### Vision of the Department

To be recognized as the fountainhead of excellence in technical knowledge and research in computer science and engineering to attract students and scholars across the globe.

### Mission of the Department

- To strengthen core competency of students to be successful, ethical, effective problem solver in Computer Science & Engineering through analytical learning.
- To promote interdisciplinary research & innovation-based activities in emerging areas of technology globally.
- To facilitate and foster the industry-academia collaboration to enhance entrepreneurship skills and acquaintance with corporate culture.
- To inculcate in them a higher degree of social consciousness and moral values towards solving interdisciplinary societal problems using industry-academia collaboration.

Date	Title	Speakers
4th May, 2020	Webinar on "Career Trends in Artificial Intelligence and Machine Learning	Mr. Kapil Malhotra, Group CTO, NCML, and Mr. Ramesh, Ex-Scientist NIC
7th May, 2020	Free LIVE Online Workshop/Webinar on AI and Digital Marketing	Mr. Sourabh Taneja and Mr. Shankar Dayal
8th May, 2020	Webinar for Cyber Security (Network Security and Web Security)	Mr. Kundan Kumar, Technical Advisor, GICSEH Data Security Pvt.
15th May, 2020	Webinar on Career Trends in Internet of Things (IoT)	Ms. Shweta Berry, Head-Strategic Alliances, Aries Mr. Ankur Tyagi, Tech Head, Eigen Technologies
16th May, 2020	Webinar on "Universal Human Values" for the faculty members of Sharda University	Dr. Kumar Sambhav, HoD, UP Institute of Design, Noida
17th May, 2020	Webinar on 'Carrier Prospective during and after COVID19'	Mr. Soham Banerjee, Alumni and Business Consultant with Kellton Tech Solutions
19th May, 2020	Webinar on "How to ensure Success after Graduation"	Mr. Sulab Walia, Asst. Vice President, Macquarie Group
22nd May, 2020	Webinar on "Better delivery of services in chaotic situations" using ITIL	Mr. Rajib Das, Process Consultant and Sr Project Manager



Date	Title	Speakers
23rd May, 2020	Webinar on "Patent and Invention drafting disclosure report formation"	Ms. Jyoti Chauhan, Dy President, CIMSME, Mentor, Startup/MSME, Patent and Trademark Consultant/Agent facilitator, IPR Speaker/Trainer
8th-12th June, 2020	Faculty Development Program on "Recent Advances in Computer Science and Allied Domains"	<ul style="list-style-type: none"> <li>• Prof. Raj Kumar Buyya, Director, CLOUDS Lab, The University of Melbourne, Australia, CEO, Manjrasoft Pvt. Ltd, Melbourne, Australia.</li> <li>• Prof. Ajith Abraham, Director Machine Intelligence Research Labs (MIR Labs), USA Institute, Kolkata, India</li> <li>• Dr. Kumar Padmanabh, Senior Researcher, EBTIC, British Telecom Research Lab, UK</li> <li>• Dr. Waleed Ejaz, Professor, Thompson Rivers University, Canada</li> <li>• Prof. Hari Mohan Pandey, Professor, Edge Hill University, UK</li> <li>• Mr. Arvind Kumar, Senior Advisory Software Engineer Pitney Bowes Software India Pvt. Ltd., Noida, India</li> <li>• Dr. Nikesh Bajaj, Postdoc Researcher, University of East London, UK</li> <li>• Dr. Muralidhara Anandamurthy, Academic Ambassador JMP-SAS, India</li> <li>• Prof. Bhuvan Unhelkar, Professor, University of South Florida, USA</li> </ul>

## Posters of our Webinar

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE  
INVITES YOU FOR A WEBINAR  
**CYBER SECURITY CHALLENGES & OPPORTUNITIES DURING COVID-19 PANDEMIC**  
29th April | 12:00 Noon - 2:00 PM

**Speakers:**  
 Mr. Ansh Bajaj, Director, National Institute of Cyber Security Research, IIT Bombay  
 Ms. Bhavika Jain, Researcher, Department of Computer Science, IIT Bombay  
 Prof. Nilesh Singh, IIS, University of New South Wales

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
INVITES YOU FOR A WEBINAR  
**CAREER TRENDS IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**  
4th May, 2020 | 12:00 Noon - 2:00 PM

**Speakers:**  
 Mr. Nilesh Bajaj, IIS, IIT Bombay  
 Mr. Ramesh Singh, IIS, IIT Bombay  
 Dr. Parvati Khand, IIS, IIT Bombay

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A WEBINAR  
**CYBER SECURITY & ETHICAL HACKING**  
May 8, 2020 | 11:00 AM

**Speakers:**  
 Mr. Ansh Bajaj, Director, National Institute of Cyber Security Research, IIT Bombay  
 Dr. Parvati Khand, IIS, IIT Bombay  
 Dr. Nitay Bahadur, IIS, IIT Bombay





## Posters of our Webinar

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A WEBINAR

**MATHEMATICAL MODELING  
IN RESEARCH AREA**  
12th May, 2020 | 11:00 AM

**Speaker:** Dr. Anand K. Jaiswal, Director, Institute of Information Technology, IIT Kanpur

**Co-moderator:** Dr. Parvati Rani, Head, Institute of Engineering & Technology

**Moderator:** Dr. Nitin Babulkar, Professor & Head, Dept. of Computer Science

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A WEBINAR

**PERSONALITY DEVELOPMENT  
& CAREER COUNSELLING**  
16th May, 2020 | 2:00 PM

**Speaker:** Mr. Sachin Kumar Nay, Director, Institute of Information Technology, IIT Kanpur

**Co-moderator:** Dr. Parvati Rani, Head, Institute of Engineering & Technology

**Moderator:** Dr. Nitin Babulkar, Professor & Head, Dept. of Computer Science

Co-ordinator: Dr. Latha Bamba, Associate Professor, CSE, IET

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A WEBINAR

**CAREER TRENDS IN  
INTERNET OF THINGS (IoT)**  
15th May, 2020 | 12:00 Noon to 2:00 PM

**Speaker:** Ms. Shweta Dary, Head Institute of Information Technology, IIT Kanpur

**Co-moderator:** Dr. Parvati Rani, Head, Institute of Engineering & Technology

**Moderator:** Dr. Nitin Babulkar, Professor & Head, Dept. of Computer Science

Coordinator: Prof. (Dr.) Nitin Babulkar, Head, Department of Computer Science  
Session Moderator: Prof. Anu Aggarwal, School of Engineering and Technology

# Webinar

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A WEBINAR

**Universal Human Values**  
16th May, 2020 | 12:00 PM

**Speaker:** Dr. Kamesh Sundhara, Head, IIT Kanpur

**Co-moderator:** Dr. Parvati Rani, Head, Institute of Engineering & Technology

**Moderator:** Dr. Nitin Babulkar, Professor & Head, Dept. of Computer Science

Co-ordinators: Mr. Anand K. Jaiswal, IIT Kanpur, IIT Kanpur  
Ms. Anand Bhatnagar, IIT Kanpur, IIT Kanpur  
Ms. Anand Bhatnagar, IIT Kanpur, IIT Kanpur

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A RESEARCH GROUP WEBINAR

**PATENT AND PROJECT  
PROPOSAL DRAFTING**  
23rd May, 2020 | 11:00 AM

**Speaker:** Ms. Jyoti Chaudhary, Head, Institute of Information Technology, IIT Kanpur

**Co-moderator:** Dr. Parvati Rani, Head, Institute of Engineering & Technology

**Moderator:** Dr. Nitin Babulkar, Professor & Head, Dept. of Computer Science

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A WEBINAR

**CAREER PERSPECTIVE DURING  
AND AFTER COVID-19**  
17th May, 2020 | 02:00 PM

**Speaker:** Mr. Saksham Srivastava, Head, Institute of Information Technology, IIT Kanpur

**Co-moderator:** Dr. Parvati Rani, Head, Institute of Engineering & Technology

**Moderator:** Dr. Nitin Babulkar, Professor & Head, Dept. of Computer Science

Co-ordinators: Dr. P.S. Mishra, Asst. Prof. & Mr. S.S. Mishra, Asst. Prof.

**SHARDA UNIVERSITY**  
SCHOOL OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INVITES YOU FOR A WEBINAR

**Written Communication**  
25th May, 2020 | 5:00 PM - 6:00 PM

**Speaker:** Dr. Sargandhita Bhatnagar, Head, Institute of Information Technology, IIT Kanpur

**Co-moderator:** Dr. Parvati Rani, Head, Institute of Engineering & Technology

**Moderator:** Dr. Nitin Babulkar, Professor & Head, Dept. of Computer Science

Co-ordinators: Mr. Anand K. Jaiswal, IIT Kanpur, IIT Kanpur  
Ms. Anand Bhatnagar, IIT Kanpur, IIT Kanpur  
Ms. Anand Bhatnagar, IIT Kanpur, IIT Kanpur



## Student Achievement

- Pratulya Sharma of BCA has won REX Karamveer Youth fellowship and Karamveer Chakra instituted by ICGNO and the UN. He is now a curator at Global Karamveer Award.



- Apurva Tyagi of BCA Vth sem scored 96% in MAT 2020.



- Nishant Sharma from Department of Computer Science and Engineering, SET has been selected for the Final Phase Competition of Be a Road Hero Hackathon on Road Safety organized by Indian Road Safety Campaign, Electrical Engineering Society IIT Delhi, Hero MotoCorp and Hindustan Times on 15th February 2020. The competition witnessed participation of more than 600 students from 76 colleges across the country including premier IITs and NITs





MOU's

Department of Computer Science & Engineering have signed a MOU with Amazon Web Services(AWS), USA to include cloud computing curricula of global benchmarking to develop the next generation of cloud professionals.



AWS Educate partners with higher education institutions to develop, integrate Cloud curriculum as part of degree, diploma programs, Bengaluru, July 10th

In a new approach, seven higher education institutions in India will adopt cloud computing curricula from the Amazon Web Services (AWS) Educate global initiative into their mainstream college syllabus to help develop the next generation of cloud professionals.

Want a BTech degree in Computer Science online? Amazon Web Services Educate's new course might be the best fit for you



Chitkara University in Punjab, Galgotias University in Uttar Pradesh, Manav Rachna University in Delhi and NCR, Noida Institute of Engineering and Technology, Sharda University in Delhi and NCR and SRM Institute of Science and Technology, Tamil Nadu will be offering the novel Bachelor of Technology degree in Information Technology (IT) and Computer Science. The ASM Group of Institutions in Maharashtra will offer a syllabus combined with the AWS Educate cloud curricula for its PGDM in Emerging Technology.

Faculty Achievement

- Dr. Ali Imam Abidi of Departement of Computer Science and Engineering is getting his book titled "Deformable Registration Techniques for Thoracic CT Images: An Insight into Medical Image Registration" in Springer, Singapore.
Patents Published/Filed by Faculty Members of CSE Department.

Table with 4 columns: Name of the Patenter, Patent Number, Title of the Patent, Status. Rows include Atif Anwar, Dr. Parmanand (ANTI-THEFT VEHICLE SYSTEM) and Dr. Parma Nand, Dr. Nitin Rakesh, Preeti Kaushik, Dr. Pooja, Dr. Sudeshna Chakraborty (Robot Control System).



Name of the Patenter	Patent Number	Title of the Patent	Status
Dr. Shri Kant, Harshit Sharma	201911047988	Method to Detect and Analyze Malware	Published
Anamika Mitra Dr. Mandeep kaur	202011004730	System & Method for High Efficiency Coding for Surveillance Videos Based on Selective Based Fast Intra Coding	Published
Dr. Sudeshna Chakraborty Ms. Sanika Singh Ms. Deepti Sahu, Preeti Kaushik	329142001	Sustainable Solar Multicool Refrigeration System	filed 30th April, 2020
Dr. Latha Banda Dr. Parma Nand	202041016777	AHS-Diet Recommender: Automatic Healthy Diet Recommender System	filed 19th April, 2020
Dr. Sudeshna Chakraborty	202011016209	An automatic food allergy detection system using mobile device & a process for the detection thereof	filed 15th April, 2020
Dr. Parma Nand, Dr. Nitin Rakesh Dr. Sudeshna Chakraborty Rani Astya, Sanika Singh Deepti Sahu, Ashutosh	202011019456	Intelligent Health Surveillance	filed 7th May, 2020
Dr. Mandeep Kaur Prof. (Dr.) Parmanand Prof. (Dr.) Nitin Rakesh Dr. Ritika Wason, Ms. Rani Astya Dr. Ali Imam Abidi	202011020475	System and Method for Clustering and/or Detection of P300	Published

- Mr. Sushant Jhingran, Assistant professor-CSE, has developed a website application to conduct quiz for the students of Sharda University.
- Dr. Hoor Fatima has successfully defended her Ph.D. degree on "Artificial Neural Network (ANN) Modelling for Photovoltaic Thermal (Pvt.) collector with different base materials", under the supervision of Prof. T. S. Bharti and Prof. G. N. Tiwari of Indian Institute of Technology, Delhi.





## Workshops/FDP's/Invited Talks

- Department of Computer Science and Engineering, SET, DSC organised Hands-on Session "FUN WITH FLUTTER to provide insight knowledge of app development, widgets, and framework with FLUTTER. This workshop will help in understanding the basics of flutter & dart and why is it important for app development on 15th Feb 2020.. The speaker of the event is Mr. Faizan Akhtar, CSE 4th yr Student (DSC LEAD).



- Department of Computer Science and Engineering in association with ICARS organized a 5 day workshop SECURITY from 6th to 10th July 2020. The various topics that were discussed in this workshop were attack, open source tools, ethical hacking etc.
- Department of Computer Science and Engineering & I-Nurture SET organised Training/Workshop on Ethical Hacking | 10th February 2020. This Training/Workshop is intended to provide basic abilities necessary to evaluate internal and external safety threats against a network, to create security policies that will safeguard the data of an organization & an individual.



- Department of CSE, SET in association with DST, Govt. of India organised 03 days Entrepreneurship Awareness Camp from 05th to 07th February 2020. The objective of this event is to enhance the capabilities of students in the field of Entrepreneurship



- Department of Computer Science & Engineering, SET, conducted a Research Group Expert talk on Innovative Research Seminar on 18th January 2020. It is an attempt to build up research aptitude skills & avenues to which academicians and faculties will be exploring on the new technology of Block chain, Crypto currency, IoT, etc. The speaker is Mr. Yash Sharma, Industry Research Expert.



## ELECTRONICS & COMMUNICATION ENG., ELECTRICAL & ELECTRONICS ENG.

- Dr. Pallavi Gupta, Associate Professor, ECE, Dr. Usha Tiwari, Asst. Prof., ECE, Ms. Shaheen Naz, Assistant Professor, ECE, Mr. C. Mohan, Assistant Professor, EEE, School of Engineering and Technology, SET, along with IIC (Institution Innovation Council), Sharda University organised Webinar on "Women's right: Daughters have an equal right to paternal property by birth" on 11th September-2020. Resource person is Mr. Harish Kumar Tiwari, Assistant Professor, School of Law, Sharda University.



- Dr. Amit Sehgal Professor ECE had participated in second Cohort "Produce 2.0 of AIC-ADT, Baramati member of Evaluation Committee for second round of evaluation of startups. held on 9th-12th September, 2020.



- Dr. Amit Sehgal Professor ECE delivered a talk on Coverage and Connectivity Issues in WSNs during TEQUIP-III sponsored 5 days FDP on Advancements in Signal Processing & Optimization Techniques in WSN organized by Poornima College of Engineering, Jaipur.



- Dr. Amit Sehgal Professor ECE has been deputed as voluntary Startup Mentor for AIC-ADT, Baramati under the Mentor of Change program of Atal Innovation Mission.





## PAPERS PUBLISHED (FACULTY HIGHLIGHTED)

Authors	Title	Journal Name	Publisher
S. P. Jaiswal, V. Shrivastava D. K. Palwalia	Opportunities & challenges of PV technology in power system	Materials Today: Proceedings	Elsevier

## FACULTY AS RESOURCE PERSONS OF WEBINARS, EVENTS AND WORKSHOPS

**Dr. S. P. Jaiswal** has organised One Week E-Faculty Development Program on Role of Energy Management in Smart City.



**Mrs. Sumanlata** Dhar organised webinar with Sharda University Alumnus **Ms. Farhana Fayaz** and **Mr. Sourav Das** on 20th May, 2020



## STUDENT ACHIEVEMENTS

**Mr. Jithin Kumar** (4th year ECE Student) got offer letter from 5 foreign universities.

- University of bristol: MSc in Robotics
- University of York: MSc in Intelligent Systems
- Queen Mary University of London: MSc in Artificial Intelligence
- Royal Holloway University of London: MSc in Artificial Intelligence
- University of Bath: MSc in Artificial intelligence & Autonomous Systems





- Mr. Md Danish Reza ( M.Tech., EEE - Power System) has been short-listed for Internship at the Vardhan Consulting Engineers for Electric Vehicle – Techno-Commercial Analysis, VCE-Vardhan House, Patna, Bihar 801503.
- Md Danish (2nd year M.Tech. student of ECE Digital Communication) had presented his paper titled “ PAPR REDUCTION IN OFDM TRANSMISSION SYSTEM USING AI WITH NEURAL ALGORITHMS ”in ICAAAIML-2020: International Conference on Advances and Applications of Artificial Intelligence and Machine Learning to be held on 29th-30th October, 2020 at School of Engineering and Technology, Sharda University Uttar Pradesh, Greater Noida, India. He is doing his research work under the guidance of Ms Manisha Rajoriya (Assistant Professor ECE SET) and Dr. Pallavi Gupta (Associated Professor ECE SET). All the accepted and presented papers during the Conference will be available in prestigious Lecture Notes in Electrical Engineering series (<https://www.springer.com/series/7818>) and will be listed in Scopus.
- Mr. Piyush (ECE SET, 2016-2020 Batch) had cleared GATE 2020 exam and joined NIT Jamshedpur for M.Tech. course.

## MECHANICAL ENGINEERING

1. Mechanical Engineering Department, School of Engineering and Technology, Organized a Webinar on Transformation In Mobility (Impact of Pandemic In Automotive Industry & Way Forward) on 6th May, 2020.

**Speaker:** Mr. Swarup Nandi, Entrepreneur and Automotive Professional

**Convener:** Dr. Parma Nand, Dean School of Engineering and Technology

**Moderator:** Dr. Anil Kumar, Assistant Professor, Mechanical Engineering Department

2. Department of Mechanical Engineering and Department of Electrical and Electronics Engineering Organized a One Week E-Faculty Development Program on Role of Energy Management in Smart City, from 15th - 19th June 2020.

**Objectives of the event :**

A smart city is a sustainable and efficient urban centre that provides a high quality of life to its inhabitants through optimal management of its resources. Energy management is one of the most demanding issues within such urban centres owing to the complexity of the energy systems and their vital role. This FDP will try to focus on the basic essence of energy management for developing a smart city.

**Convener Details:**

- Prof. Parma Nand, Dean SET, Sharda University, [parma.nand@sharda.ac.in](mailto:parma.nand@sharda.ac.in)

**Co-Ordinator Details:**

- Dr. Shiva Pujan Jaiswal, Department of Electrical and Electronics Engineering, SET
- Mr. Shibamayi Mitra, Assistant Professor, Department of Mechanical Engineering, SET
- Ms. Suman Lata, Department of Electrical and Electronics Engineering, SET

**Speaker:**

- Dr. Peter Fath, CTO, GP SOLAR, Germany
- Prof. Subhasis Maji, Ex-Director, IGNOU, New Delhi
- Mr. M. Sukumar Reddy, Alumni Sharda University & Manager Projects (Asia), RCT Solutions Pvt Ltd., Germany
- Dr. Om P. Nangia, Director (New Era Solar Solutions P Ltd., Formerly Head-BHEL Solar Plant (Gurgaon)
- Mr. Ashutosh Sharma Voltrans Energy Pvt. Ltd. Sahibabad, U. P.
- Prof. Sushanta Dutta, Professor, Department of Mechanical and Industrial Engineering, IIT
- Prof. Chitra Chidambaram, Professor, Sharda University

3. Mechanical Engineering Department, School of Engineering and Technology, Organized Three Day Event on Industry 4.0: Smart factories with Lean Manufacturing from 25th-27th June, 2020.





**Event objectives:**

A three-day Professional Development Program on Industry 4.0: Smart factories with Lean Manufacturing was organized by the Department of Mechanical Engineering, Sharda University from 25th June to 27th June 2020 in association with Association of Energy Engineers Delhi (AEE Delhi), Ecotech 12 Industries Association- Greater Noida, Indian Industries Association (IIA)- G.B. Nagar, MSME Industrial Association- Noida, The Toy Association of India and Laghu Udyog Bharti.

**Convener:** Dr. Parma Nand, Dean, School of Engineering and Technology

**Coordinator:** Prof. Bhim Singh, HoD, Mechanical Engineering Department

Dr. R. K. Yadav | Mr. Naresh Kumar Gupta | Dr. Lavish Kumar Singh, Assistant Professor, Mechanical Engineering

**Speaker:**

- Dr. Bhim Singh, Head-Mechanical Engineering Department, Sharda University • Mr. Yogesh C. Gupta, VP-AEE Delhi
- Mr. Satya Prakash Singh, Associate Vice President- Balmer Lawrie • Dr. Ashish Agrawal, Professor- IGNOU
- Mr. Sameer Kumar, Co-Founder Esthetly • Dr. Saurabh Agrawal, Assistant Professor, DTU • Mr. Suresh Kumar, Senior Project Manager- MothersonSumi INFotech • Mr. Venkatesh, National Training Manager, SMC Corporation Limited
- Mr. Saurabh Mohan Saxena, Global Managing Director-AHODS • Dr. Arvind Gupta, Professor, YMCA Faridabad



Department of Mechanical Engineering and Department of Electronics and Communication Engineering, SET organized a One Week E- Faculty Development Program on Human Values and Ethics on 6th - 11th July 2020.



**SCHOOL OF  
ENGINEERING & TECHNOLOGY**

# WAVE NEWSLETTER LENGTH

ISSUE: AUGUST TO OCTOBER, 2020

## CHIEF EDITORIAL TEAM

**Dr. Parmanand**, SUSET, Professor & Dean, SET  
**Ms. Manisha Rajoriya**, SUSET, Asstt. Professor, ECE Deptt

## EDITORIAL TEAM MEMBERS

**Neeraj Kumar Jha**, Assistant Professor, BTY Department  
**Sukalpaa Chaki**, SUSET, Assistant Professor, Civil Department  
**Ritu Deewan**, SUSET, Assistant Professor, CSE Department  
**Soma Dev**, SUSET, Assistant Professor, EEE Department  
**Shibamay. Mitra**, SUSET, Assistant Professor, ME and Automobile Department