

INSIDE

SCHOOL OF ENGINEERING & TECHNOLOGY

- Higher Package Placed Students

BIOTECHNOLOGY ENGINEERING

- Student Achievements
- Higher Education

CIVIL ENGINEERING

- Patent
- Publications
- Departmental Consultancy
- FDPs/Workshop
- Higher Education
- Placement

COMPUTER SCIENCE AND ENGINEERING

- Events • Placements • Patents • Publications

DEPARTMENT OF ELECTRICAL ELECTRONICS AND COMMUNICATION ENGINEERING

- Vision and Mission of the Department
- MoU
- FDP/Webinars
- Faculty Achievements
- Students Achievements

MECHANICAL & AUTOMOBILE ENGINEERING

- Events
- Publications
- Patents
- MoU
- Industry Visit



**SCHOOL OF
ENGINEERING & TECHNOLOGY**

WAVE NEWSLETTER LENGTH

ISSUE: AUGUST TO SEPTEMBER, 2021



FROM DEAN'S DESK

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

School of Engineering and Technology (SET) is extending a gracious and hearty welcome to all of its 1st-year students in its convivial campus. In the same spirit, I am pleased to brief the various students' activities and faculty achievements of SET for the period May 2021 till August 2021.

The main highlights of this edition are fruiting of our efforts in the form of phenomenal placements of final year students with exponentially high salary packages and faculty achievements in the form of patents and research papers in diverse domains. Apart from academics and research, we disposed our social responsibility as well in this challenging time. "Vaccines save lives": SET organized a COVID-19 vaccination awareness program by the name of "This is our shot". The event was focussed on creating awareness among the students and staff regarding the importance of vaccination in order to defeat COVID-19.

G.D. Anderson once quoted "Feminism isn't about making women stronger. Women are already strong; it's about changing the way the world perceives that strength". True to this notion, SET organized a socially stimulating webinar on "Women Empowerment: A Prerequisite for Gender Equality".

Thank you for sparing time and appreciating our achievements.

Dr. Parma Nand

Dean, School of Engineering & Technology



SCHOOL OF ENGINEERING & TECHNOLOGY

WAVE NEWSLETTER LENGTH

ISSUE: AUGUST TO SEPTEMBER, 2021

SCHOOL OF ENGINEERING & TECHNOLOGY

HIGHER PACKAGE PLACED STUDENTS

SHARDA UNIVERSITY
Beyond Boundaries

SCHOOL OF ENGINEERING & TECHNOLOGY

HIGHER PACKAGE PLACED STUDENTS

 Mr. Ramesh Babu Zame 12 Electrical Engg. 9.0%	 Mr. Nitish Deyal 12 Mechanical Engg. 9.0%	 Mr. Esmatullah Raza 12 Mechanical Engg. 9.0%	 Mr. Ashish Bhatnagar 12 Mechanical Engg. 9.0%	 Mr. Sakshi Khat 12 Computer Science Engg. 9.0%	 Mr. Anand Khat 12 Mechanical Engg. 9.0%
 Mr. Anshu Khat 12 Mechanical Engg. 9.0%	 Mr. Akash Khat 12 Mechanical Engg. 9.0%	 Mr. Tushar Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Dhiraj Khat 12 Mechanical Engg. 9.0%	 Mr. Anurag Khat 12 Mechanical Engg. 9.0%
 Mr. Tushar Khat 12 Mechanical Engg. 9.0%	 Mr. Akshay Khat 12 Mechanical Engg. 9.0%	 Mr. Shubham Khat 12 Mechanical Engg. 9.0%	 Mr. Rajat Khat 12 Mechanical Engg. 9.0%	 Mr. Harsh Pratap Singh 12 Mechanical Engg. 9.0%	 Mr. Pratik Khat 12 Mechanical Engg. 9.0%
 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Vinay Khat 12 Mechanical Engg. 9.0%	 Mr. Akanksh Khat 12 Mechanical Engg. 9.0%	 Mr. Rajat Khat 12 Mechanical Engg. 9.0%	 Mr. Sandeep Khat 12 Mechanical Engg. 9.0%	 Mr. Anshu Khat 12 Mechanical Engg. 9.0%
 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%
 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%	 Mr. Shal Khat 12 Mechanical Engg. 9.0%

STUDENTS SELECTED AT TOP UNIVERSITIES FOR HIGHER STUDIES



DEPARTMENT OF BIOTECHNOLOGY

Student Achievements!

Sharda University B.Tech. Biotechnology students have made a remarkable achievement. They have received job offer from Bharat Biotech, a leading company in the area of Biotechnology, currently Manufacturer of Covaxin to fight Covid-19.



Admitted in Top Institutions 2021

Three B.Tech. Biotechnology (2017-2021) students have been admitted in Top Institutions, such as IIM Nagpur and IIT Hyderabad in the current academic session.





CIVIL ENGINEERING

Patent

Inventor (S)	Title of Invention	Application No.	Status
Dr. Gaurav Saini	A method of treating waste drilling mud slurry and a coagulant thereof	201711018142	Granted
Megha Gupta	A high strength concrete composition	201811046652	Granted
Nishant Kumar Sunil Saharan Ifshan Farooq	A Composite Concrete Composition and Process of Preparation thereof	201811030291	Granted
Dr Gaurav Saini, Aashish Lamichhane	RJ11 Female Connector	13311	Granted
Dr. Gaurav Saini, RozaYalem, Aashish Lamichhane	Water Filter	L-105455/2021	Granted
Nishant Kumar, Yash Kumar, Mohit Singh	Door stopper	14376/2021-CO/L	Granted
Dr. Gaurav Saini and Sanjog Chhetri Sapkota	Energy Efficient Heat Exchange System	337654-001	Granted
Dr. Gaurav Saini and Sanjog Chhetri Sapkota	Door stopper	338832-001	Granted
Dr. Gaurav Saini and Sanjog Chhetri Sapkota	Stool	338832-002	Granted
Dr. Gaurav Saini and Sanjog Chhetri Sapkota	Stool	339374-001	Granted
Prof. Satyaprakash	Stool	333361-001	Granted



Inventor (S)	Title of Invention	Application No.	Status
Dr. Gaurav Saini and Sanjog Chhetri Sapkota	Stool	339374-002	Granted
Prof. Satyaprakash	Smart Helmet	337257-001	Granted
Dr Gaurav Saini, Aashish Lamichhane	RJ11 Connector	339950-001	Granted
Dr. Gaurav Saini and Shankar Shah	Mortar and Pestle set with Lid	339949-001	Granted
Satyaprakash, RS Ojha, Azzimuddin & Ashok Kumar	Food stand	339622-001	Granted
Satyaprakash and RS Ojha	A serving stand	202111008950	Filed
Nishant Kumar, Yash Kumar, Ankit Bidhuri, Aman Bhati, Prashant Sharma	An apparatus and a method of reducing power consumption	202111018097	Filed
Dr Gaurav Saini, Nishant Kumar, Abhishek Kumar	Electric Barbeque grill	344358-001	Filed
Dr Gaurav Saini, Nishant Kumar, Abhishek Kumar	Environmentally friendly barbeque grill	202111018465	Published
Dr. Gaurav Saini and Sanjog Chhetri Sapkota	Hydraulic Prop	344076-001	Filed
Dr. Gaurav Saini and Sanjog Chhetri Sapkota	Hydraulic Prop	344075-001	Filed
Nishant Kumar, Ashutosh Kumar Jha, Suraj Yadav, Roshan Shah, Priyanka Chaudhary, Manish Jha	An apparatus for generating electricity from vehicle motion	202111022363	Published
Dr. Gaurav Saini, RozaYalem, Aashish Lamichhane	Water Dispenser	344356-001	Filed



Inventor (S)	Title of Invention	Application No.	Status
Dr. Gaurav Saini, Aashish Lamichhane	Duster	346389-001	Filed
Dr. Gaurav Saini, Aashish Lamichhane	Cleaning Device	202111032460	Filed
Sunil Kumar, Nishant Kumar, Gaurva Basnet	Door aldrop set	346390-001	Filed
Dr. Satya	Helmet	337257-001	Filed
Dr. Gaurav Saini	Parking Management system and Method thereof	202111035409	Filed

Research Publications: (Scopus Indexed Journals)

Title of Paper	Name of the Author/S	Name of journal	ISBN/ISSN Number	Paper link
Metro-environmental data approach for the prediction of chemical oxygen demand in new Nicosia wastewater treatment plant	M. Saleh, P. Esmaili, Z. Ameen, R. Abdulkadir, M.S. Gaya, G. Saini, S.I. Abba	Desalination and Water Treatment	221:31-40	https://www.deswater.com/DWT_abstracts/vol_221/221_2021_31.pdf
Strength and Durability of self curing concrete developed using calcium lignosulfonate	Rayees Ali Khan, Chhavi Gupta, Shamshad Alam	Journal of King Saud University Engg. Sciences	1018-3639	https://www.sciencedirect.com/science/article/pii/S1018363921000180
Nonlinear Static Analysis of a Rectangular Cable Supported Submerged Floating Tunnel (SFT) as an alternate crossing for waterway	Md. Hafizur Rahman, Chhavi Gupta	Lecture Notes in Civil Engineering	2366-2557	https://link.springer.com/chapter/10.1007/978-981-15-5644-9_72
Wastewater-based epidemiology for novel Coronavirus detection in wastewater	P. S. Deepak and G. Saini	Global Journal of Environmental Science and Management		https://www.gjesm.net/article_243222.html



Title of Paper	Name of the Author/S	Name of journal	ISBN/ISSN Number	Paper link
Analysis and Modeling Urban Growth Dynamics & its Impact on Carbon Sequestration using Multi-Temporal Satellite Image for Addis Ababa, Ethiopia	Ziyad Ahmed Abdo and Satyaprakash	Arabian JI of Geosciences 14(6):445	1866-7511	https://doi.org/10.1007/s12517-021-06726-y
A Review Paper on Monitoring Environmental Consequences of Land Cover Dynamics with The Help of Geo-informatics Technologies	Ziyad Ahmad Abdo and Satyaprakash	Geosfera Indonesia, 5(3), 364-377		doi:10.19184/geosi.v5i3.18284
Landslide Hazard Zonation of Amhara region in Ethiopia using techniques of GIS and Remote Sensing and Statistical Probabilistic Methods	Satyaprakash, TinsaeFikru and Pinakana Sai Deepak	Journal of Engineering Research in Africa (Scientific.net)		
Fate of 15 wastewater originated micropollutants in a sand column	Mishra, S.; Kumar, P.; and Mehrotra, I	Sustainable Water Resources Mangt.	2363-5045	https://link.springer.com/article/10.1007/s40899-021-00535-7
Diversity of Algal Species Present in Waste Stabilisation Ponds and Different Factors Affecting its Enrichment and Phototaxis	Dahiya, S.; Shilpie, A.; Balasundaram, G.; Chowdhury, R.; Kumar, P.; and Mishra, A. K.	Chemistry and Ecology	0275-7540	https://www.tandfonline.com/doi/abs/10.1080/02757540.2021.1910242?journalCode=gche20
Biomass and Lipid Productivity by Two Algal Strains of Chlorella sorokiniana Grown in Hydrolysate of Water Hyacinth	Dahiya, S.; Chowdhury, R.; Tao, W.; Kumar, P. (2021).	Energies	1996-1073	https://www.mdpi.com/1996-1073/14/5/1411
Behavior of Steel–Concrete–Sandwiched Beam with Steel Fiber Reinforced Concrete Core and X-Form Shear Connectors	Saranya Ilango, N. Anandavalli	Journal of The Institution of Engineers (India): Series A	2250-2157	https://link.springer.com/article/10.1007/s40030-020-00492-y#author-information



Title of Paper	Name of the Author/S	Name of journal	ISBN/ISSN Number	Paper link
Effect of fly ash cement and polypropylene fibre on the performance of recycled aggregate concrete column under thermal loading: Experimental & numerical study	Saranya Ilango, Vivek Singh, Chayanika Gogoi	Australian Journal of Structural Engineering	1328-7982	https://www.tandfonline.com/doi/full/10.1080/13287982.2021.1872994
Effects of inverted V bracing in four-story irregular RC structures	Kafeel Hussain Ganaie, Birendra Kumar Bohara, Prasenjit Saha	International Research Journal of Modernization in Engg. Technology and Science	2582-5208	https://irjmets.com/rootaccess/forms/uploads/IRJMETS774110.pdf

Departmental Consultancy

A consultancy study entitled "Design flood estimation for Kishau dam in view of upgradation of hydrological aspects of Kishau DPR" has been awarded to Dr. Rakesh Kumar, Professor, Department of Civil Engineering by the National Institute of Hydrology, Roorkee. The charges for carrying out the study are Rs. 14.00 lac plus GST. This study is a part of the consultancy project awarded by the Kishau Corporation Limited (KCL) to National Institute of Hydrology, Roorkee on "Hydrological studies in view of upgradation of hydrological aspects of Kishau DPR".

Kishau Dam is a multipurpose project to be constructed on river Tons, which is a tributary of river Yamuna at the border of district Dehradun of Uttarakhand and district Sirmour of Himachal Pradesh located at 45 km upstream of Dakpathar. The project envisages construction of a 236 m high concrete dam, thus creating an installed capacity of 4x150 MW of hydroelectric power and a live water storage of 1,324 million cubic meter.



Events: FDPs/Workshop

1. Department of Civil Engineering has organised 5 day E-Faculty Development Program on Integrated Water Resources Management (IWRM) from 28th June-2nd July, 2021.

Event Aim: IWRM aims in applying knowledge to create an understanding to devise and implement efficient, equitable and sustainable solutions to water and development problems.

List of Speakers:

- Dr. R. D. Singh, Ex. Director, National Institute of Hydrology, Roorkee
- Dr. Manohar Arora, Scientist D National Institute of Hydrology, Roorkee
- Dr. Sanjay Kumar, Scientist E National Institute of Hydrology, Roorkee
- Dr. J. P. Patra, Scientist D National Institute of Hydrology, Roorkee
- Dr. R. P. Pandey, Scientist G National Institute of Hydrology, Roorkee
- Dr. Pankaj Mani, Scientist F National Institute of Hydrology, Roorkee
- Dr. B. Chakravorty, Scientist G National Institute of Hydrology, Roorkee
- Dr. Rakesh Kumar, Professor, CE Dept., Sharda University
- Dr. Satya, Professor, CE Dept., Sharda University
- Dr. Anamika Paul, Professor, CE Dept., Sharda University





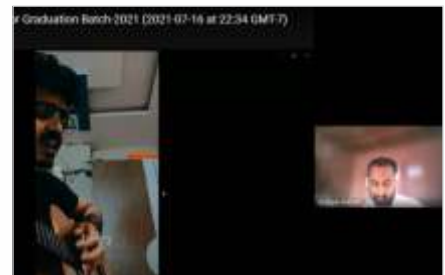
2. Department of Civil Engineering has organised Webinar on "Modern Day Civil Engineering: Values, Ethics, Rights and Duties" on 23rd June 2021 To sensitize students of the Institution to the constitutional obligations in Modern Civil engineering works: Fundamental values, rights, duties, and responsibilities of engineers. The speaker of the event was Shri Niraj Goel, (CE(Civil) at BSNL) and coordinators are Col. Vivek Mathur, Ms. SukalpaaChaki, CE. Around 48 students have participated in the webinar.



3. Department of Civil Engineering has organised a Webinar on "Constitutional Rights, Duties and Responsibilities of Citizens" on 25th June,2021, To create awareness and sensitizing the students and employees to constitutional obligation, as a part of strengthening the democratic values. The speaker of the event was Mr. Rahul Pandey, (SHSUN Senior Legal Officer) and coordinator was Ms. Sukalpaa Chaki, Assistant professor, CE. Around 34 UG/PG students have participated in the event.
4. Department of Civil Engineering has organised an event "Construction Site Inspection for Review of Environmental Health & Safety aspects within Sharda campus" on 28th June 2021, To inspect, examine and verify the on-field compliance including Safety Standards, working conditions, and other critical areas of the worksite. The coordinators of the event were Prof. Anamika, Col. Vivek Mathur, Ms. Sukalpaa Chaki, CE Department.



5. Department of Civil Engineering has organised an event "Construction Site Inspection for Review of Environmental Health & Safety aspects within Sharda campus" on 28th June 2021, To inspect, examine and verify the on-field compliance including Safety Standards, working conditions, and other critical areas of the worksite. The coordinators of the event were Prof. Anamika, Col. Vivek Mathur, Ms. Sukalpaa Chaki, CE Department.





6. Department of Civil Engineering is organised an awareness program titled #THIS_IS_OUR_SHOT – COVID-19 VACCINATION AWARENESS PROGRAM, 14th to 20th July. The event was focused on creating awareness among the students and staff regarding the importance of vaccination in order to defeat COVID-19. The aim of the awareness programme was to educate people about the benefits of the vaccination which helps our body to in developing immunity and decreases the spread of the virus. Students and staff uploaded a photograph/vaccination certificate of themselves along with few lines telling the importance of vaccination.

Higher Education

Student enrolled for higher studies	Student System ID	Program Completed, SU	Institution/ University Joined for Higher Studies	Year of Joining	Programme Admitted
Mr. Mueed Bashir	2017003202	B.Tech. Civil Engg.	University of Bristol	2021	MSc in Water & Environmental Management
Mr. Dilawar Ali	2017014731	B.Tech. Civil Engg.	Tongji University, Shanghai	2021	Masters Program in Bridge Engineering
Mr. Kafeel Hussain Ganie	2019006353	M.Tech. Structural Engg.	Tongji University, Shanghai	2021	Ph.D.
Mr. Ashutosh Kumar Jha	2017013284	B.Tech. Civil Engg.	Thapar Institute of Engineering & Technology	2021	M.Tech. Structural Engineering
Mr. Manish Kumar Jha	2017013277	B.Tech. Civil Engg.	Thapar Institute of Engineering & Technology	2021	M.Tech. Structural Engineering
Mr. Mohsin Javaid Beigh	2017000769	B.Tech. Civil Engg.	Sharda University	2021	M.Tech. Structural Engineering

Placement

System ID	Name	Branch	Status	Name of Company/College	Designation
2018016788	Ashwini Sah	CE(B.Tech)	Placed	Jindal Group	Sales Executive
2018016375	Bedbyas Pokhrel	CE(B.Tech)	Placed	Tech Sathi	Assistant Technology Officer
2019003812	Shahroz Khan	CE(B.Tech)	Placed	Max Mode Channel	Technical Assistant Manager



System ID	Name	Branch	Status	Name of Company/College	Designation
2019001129	Ibrahim Usmani	CE(B.Tech)	Placed	Bloom Brain Learning Solution	Business Development Manager
2018011543	Kabeer Wafai	CE(B.Tech)	Placed	ienergizer	Assistant Executive Cust. service
2019005149	Fasih Siddiqui	CE(B.Tech)	Placed	Raju Enterprises	Quality Controller
2020402841	Nikhil Johari	CE(M.Tech)	Placed	Sai Geotechnical Engineers Pvt.Ltd.	Quality Manager
2020580526	Mr. Anuraj	CE(M.Tech)	Placed	Landcraft Developers Pvt. Ltd.	Junior Engineer Civil
2018003249	Mr. Moh. Aftab Lone	CE(B.Tech)	Placed	MIR Construction & Engineers	Trainee Engineers

COMPUTER SCIENCE AND ENGINEERING

- Department of Computer science & Engineering, SET has organized a One week Hands-on Workshop on Internet of Things: Implementation using Arduino Uno. In this hands on workshop various topics were covered like Introduction to Arduino UNO, Blinking LED, Traffic Light Simulation, Gas Sensor Implementation, Flame Sensor implementation, working with push button, Humidity and Temperature Sensor, Working with relay, and Working with servo motor. The objective was to make an awareness of the Arduino platform and Hands on Arduino. The workshop has the aim to provide knowledge and experience on the aspects of Arduino for beginners.



- Department of Computer Science and Engineering, School of Engineering and Technology, Sharda University organized "E-Farewell for the Graduating batch-2021 on 17th July 2021. The Objective of the Event was to bid a cheerful adieu to the graduating students.
- Department of Computer Science Engineering and Department of Mechanical Engineering, Sharda University, Greater Noida organized a Webinar on "Entrepreneurship – idea to startup and funding" on 17th July 2021. The Objectives of the Event was to train and develop the Entrepreneurship Skills of the students so that they can become the future Entrepreneur and act as Resource Persons in guiding, recruiting and motivating their future generation.





- Department of Computer science & Engineering, SET organised a "One week Hands On Workshop on Internet of Things: Implementation using Arduino Uno" from 12th-17th July 2021. In this hands on workshop the topics were Traffic Light Simulation, Gas Sensor Implementation, Flame Sensor Implementation, Working with relay, Displaying output on LCD Display, Node MCU.



- Department of Computer Science and Engineering, School of Engineering and Technology, Sharda University conducted a Webinar on "Tolerance and Harmony: Attributes of Indian Culture" on 14th July 2021. The Objectives of the Event was to describe the tradition of India which is to never attack anybody rather who comes here to love or to torture, both are equally hugged and which is still continuing with eventual proficiency in the aspects of education, culture, philosophy to enhance the eternity of soul with peace and harmony. The Speaker of the event was Mr. Prasenjit Sinha, Sharda Skills, Cultural Diversity



- Department of Computer Science & Engineering, School of Engineering and Technology (SET) organized a Quiz Competition on "Traditional Attire" on 13th July 2021. The Objective of Event was to spread awareness among students, faculties, staff members about the Traditional Attire of diverse regions of our Country.
- Department of Computer science Engineering, SET organized a webinar in collaboration with DSC "How to master in Data Structures and Algorithms". The Objective behind the webinar was to help the students with mastering their skills in Data Structure and Algorithms. The Speaker of the event was Ms. Mamta Kumari, Co-founder PrepBytes, 5 years of experience in Tech giants Amazon & Samsung, Recognized by Google Developers Launchpad, Member of Facebook- SheLeads Tech, Computer Science graduate, NIT Jamshedpur, Online Instructor, and Mentor.
- Department of Computer Science & Engineering, School of Engineering and Technology is organized an "International Faculty Development Program on Recent Trends in Cyber Security" from 26th June -1st July 2021. The Objective of Event was to cover all the aspects of Cyber Security and Advanced Technologies skills. The Faculty Development Program was in collaboration with Center of Excellence partner Microsoft for Cyber Security and Allied Technologies.

Speakers

- Mr. Deepak Talwar, National Cyber Security Officer, Microsoft
- Prof. A K Mohapatra, Professor and Head (IT), IGDTW, Delhi
- Dr. Abhilasha, Senior Manager-Academic Initiative, Cyber Peace Foundation
- Dr. Gaurav Sharma, Cyber security Research Center, Université libre de Bruxelles, Belgium
- Dr. Manju Khari, School of Computer & Systems Sciences, Jawaharlal Nehru University
- Dr. Om Pal, Scientist, Ministry of Electronics and Information Technology
- Mrs. Jan Carroll, UCD Professional Academy, Ireland
- Mr. Jaimin Gohel, Manager Professional Services, Net Square Solutions Pvt. Ltd Title: Hacking Android Apps for Hun and Profit



- Mr. Pranshu Ranakoti, Cyber Security Consultant, EY, New York
- Mr. Swapnil Pandey, Cyber Security Expert
- Mr. Bimal K. Roy, Head RC Bose Center of Cryptology and Security, ISI Kolkata
- Mr. Denis Verstraeten, Cybersecurity Research Center, Université libre de Bruxelles, Belgium
- Mr. Amrit Chhetri, Intel Edge, Digital forensics Incidence Response (DFIR) & AI
- Samir Datt, Founder and CEO of ForensicsGuru.com
- Department of Computer Science; Engineering, School of Engineering and Technology (SET) organized a Quiz competition on Commemorative days “Commemorative days to Remember” on 25th June 2021.

- Department of Computer Science and Engineering, SET and Department of Art and Design, SAP organized an FDP on e-Content Production for Lecture Capturing using Available Resources from 21st June 2021 to 25th June, 2021. The Objectives of Event were to develop creative videos for students, to learn new approaches to teaching, to deliver a lecture using different methodology.



- Department of Computer Science and Engineering, School of Engineering and Technology (SET) organised a webinar on “Women Empowerment: A Prerequisite for Gender Equality” on 16th June 2021. The Objective of the Event was to emphasize on Gender inequalities are still deep-rooted in every society.



- Department of Computer Science & Engineering (SET) School of Architecture and Planning (SAP) organized a Webinar on “The Art of Living Mindfully” on 28th July, 2021. The objective of this webinar was to sensitize people about Mindfulness. Mindfulness is the energy of being aware and awake to the present moment. It is the continuous practice of touching life deeply in every moment of daily life.





- Department of Computer Science & Engineering, School of Engineering and Technology (SET) organised third edition of One-week International Faculty Development Programme on “Recent Advances in Computer Science and Allied Domains (RACSAD – 2021)” from 05th -10th July, 2021”.
- Department of Computer Science & Engineering, School of Engineering and Technology (SET) organized a Workshop on Improving Qualities of Technical Skill and Soft Skill for Non Teaching Staff from 15th July 2021 to 21st July 2021. The objectives of Event were to learn new working methodologies, to efficiently work using various computer applications (Microsoft Office, Google Apps, etc) and to implement a new digital culture in our organization.
- Toycathon 2021 is an inter-ministerial initiative organized by the Ministry of Education's Innovation Cell with support from All India Council for Technical Education, Ministry of Women and Child Development, Ministry of Commerce and Industry, Ministry of MSME, Ministry of Textiles and Ministry of Information and Broadcasting. Toycathon 2021 is a unique opportunity for Students, Teachers, Start-ups and Toy experts/professionals in India to display their innovative toys/games concepts and win a large number of prizes worth Rs. 50 lakhs. Twenty-five shortlisted teams will display their concept in the event. In this event our students bagged the first prize.





Placements

- Anishka and Payal Verma, students from final year have been selected in Flipkart
- Nagarro Software has conducted Codsule (Monthly Coding Challenge) CodSule gives them the exact same opportunity where they can:
 - Do what they love-CODE-Opportunity to grab internship or job offers with Nagarro (if performed exceptionally good) - Get participation certificates & goodies. In this challenge more than 2500 students participated in it.



- Department of Computer Science and Engineering, Sharda University organized a one week International Faculty Development Programme /Short Term Course on "Recent Trends in Cyber Security" from June, 26th to July 1st, 2021 in online mode. This programme was attended by 142 faculty members, research scholars and students from various parts of the world. 16 eminent speakers from India and abroad, shared their knowledge on various topics. Some of the topics covered during this programme were: Cyber Threat Landscape, Quantum Computing and Quantum Cryptography, Awareness on Cyber & Privacy Laws, Cyber Forensics and Recovery, Tools and Technologies for Digital Forensics, 0-days and how to find them, Some recent issues in cryptography, Challenges and issues in IoT security, Hacking Android Apps for Fun and Profit.



Mr. Deepak Talwar, National Cyber Security Officer at Microsoft was the chief guest of the event. Other eminent speakers of this programme were Padma Shree awarded Prof. Bimal K. Roy, from Head RC Bose Center of Cryptology and Security, ISI Kolkata, Prof. A. K. Mohapatra, from IGDTUW, Delhi, Dr. Abhilasha, Senior Manager-Academic Initiative, Cyber Peace Foundation, Dr. Gaurav Sharma, Cyber Security Research Center, Université libre de Bruxelles, Belgium, Dr. Manju Khari, School of Computer & Systems Sciences, Jawaharlal Nehru University, Dr. Om Pal, Scientist, Ministry of Electronics and Information Technology, Ms. Jan Carroll, UCD Professional Academy, Ireland, Mr. Jaimin Gohel, Manager Professional Services, Net Square Solutions Pvt. Ltd, Mr. Pranshu Ranakoti, Cyber Security Consultant, EY, New York, Mr. Swapnil Pandey, Cyber Security Expert, Mr. Siddharth K. Joshi, an Independent Cyber Security Consultant, Mr. Denis Verstraeten.



SCHOOL OF ENGINEERING & TECHNOLOGY

WAVE NEWSLETTER LENGTH

ISSUE: AUGUST TO SEPTEMBER, 2021

Patents



Higher Studies

Rishabh Sharma	B.Tech. (CSE)	Queen Mary University London, University of Liverpool UK	MS
Pulkit Tyagi	B.Tech. (CSE)	Sapienza University of Rome	MS
Mukul Kochar	MCA	Craw Security	DIPLOMA
Abhishek Sharma	B.Tech.	Coventry University	MS
Sudhanshu parihar	B.Tech.	University of Windsor	Master of Applied Computing
Gursimran Singh	B.Tech.	Coventry University UK	Master Cyber Security
Ashreeya Pant	B.Tech.	University of Exeter	M.Sc. Advanced Computer Science
Amit Malik	B.Tech. (CSE)	Teesside University	MSc Financial Technology
Ninguine guy christian da issa	BCA	St. Aloysius Institute of Management	MBA



Rakshit Luke Wilson	B.Tech. (CSE)	Georgian College, Canada	PG- Diploma - Big Data Analytics
David Otu	BCA	Middlesex University	MSc Computer Science
Sarita Priyadarshini Nayak	MCA	ISM Dhanbad	Ph.D.
Punya Bansal	B.Tech. (CSE)	Delhi Technical University	MBA

Publication

Title of paper	Name of the Author/S	Name of Journal	Year of Publications
Blockchain technology: A DNN token-based approach in healthcare & COVID-19 to generate extracted data	Basetty Mallikarjuna, Gulshan Shrivastava, Meenakshi Sharma	Expert Systems	2021
Regression Test Suite Minimization Using Modified Artificial Ecosystem Optimization Algorithm	Abhishek Singh Verma, Ankur Choudhary Choudhary, Shailesh Tiwari	Journal of Information Technology Management (JITM)	2021
Effective Cost Optimization Model (ECOM) For Cloud Computing Services	Mitali Bansal, Sanjay Kumar Malik, Gulshan Shrivastava	Turkish Journal of Physiotherapy and Rehabilitation	2021
Fog computing and Edge computing: An edge over cloud computing	Jyotsna, Parma Nand	Turkish Journal of Computer and Mathematics Education	2021
An artificial intelligence-based smart system for early glaucoma recognition using OCT images	Singh L.K., Pooja, Garg H., Khanna M.	International Journal of E-Health and Medical Communications	2021
Implementation of wireless home-based automation and safety arrangement using power electronic switches	Dr. Vishal Jain	Materials Today: Proceedings, Elsevier	2021
Advanced object detection in bio-Medical x-ray images for anomaly detection and recognition	Modwel G., Mehra A., Rakesh N., Mishra K.K.	International Journal of E-Health and Medical Communications	2021
Conceptualizing smart city applications: Requirements, architecture, security issues, and emerging trends	Haque, A. K., Bharat Bhushan, & Dhiman, G	Expert Systems, Wiley	2021



Title of paper	Name of the Author/S	Name of Journal	Year of Publications
A Novel Approach Based Multi Biometric Finger Vein Template Recognition System using HGF	Ruqaiya Khanam, Rahul Dev	Open Computer Science	2021
A Robust Real Time Object Detection and Recognition Algorithm for Multiple Objects	Dr. Nitin Rakesh	Recent Advances in Computer Science and Communications	2021
Review on email spam filtering techniques	Nisar N., Rakesh N., Chhabra M.	International Journal of Performability Engg.	2021
Improved Optic Disc and Cup Segmentation in Glaucomatic Images Using Deep Learning Architecture	ParthaSarathiMangipudi, Hari Mohan Pandey, Ankur Choudhary	Multimedia Tools and Applications	2021
Multi-class breast cancer classification using ensemble of pretrained models and transfer learning	Rao, P. M., Singh, S. K., Khamparia, A., Bhushan, B., &Podder, P.	Current Medical Imaging (Formerly: Current Medical Imaging Reviews), Bentham Science	2021
Prediction model using SMOTE, genetic algorithm and decision tree (PMSGD) for classification of diabetes mellitus	Azad, C., Bharat Bhushan, Sharma, R., Shankar, A., Singh, K. K., &Khamparia, A	Multimedia Systems, Springer	2021
An Efficient Regression Test Suite Optimisation Approach using Adaptive Salp Swarm Optimisation	Arun Agrawal, Ankur Choudhary, Hari Mohan Pandey	International Journal of Business Information Systems	2021
Blockchain based solutions to secure IoT: Background, integration trends and a way forward	Saxena, S., Bhushan, B., & Ahad, M. A.	Journal of Network and Computer Applications	2021
A new efficient architecture for adaptive bit-rate video streaming	Muhammad Hamza Bin Waheed, Faisal Jamil, Amir Qayyum, Harun Jamil, Omar Cheikhrouhou, Muhammad Ibrahim, Bharat Bhushan and Habib Hmam	Sustainability, MDPI	2021
Combination of Thermal and sRGB imaging Techniques for Advanced Surveillance System	K. Martin Sagayam, J. Jenkin Winston, Mohd Helmy Abd Wahab, Bharat Bhushan, Radzi Ambar, Hazwaj MhdPoat	Annals of Emerging Technologies in Computing (AETiC)	2021
Secure access control for manufacturing sector with application of ethereum blockchain	Kumar, A., Abhishek, K., Bharat Bhushan & Chakraborty, C.	Peer-to-Peer Networking and Applications, Springer	2021



Title of paper	Name of the Author/S	Name of Journal	Year of Publications
Performance comparison of Bat search and Cuckoo search using software artefact infrastructure repository and regression testing	Arun Prakash Agrawal, Arvinder Kaur	International Journal of Advanced Intelligence Paradigms	2021
Digital Watermarking using Dragonfly Optimization Algorithm	Ruqaiya Khanam	Journal of Information Technology management	2021
MAAC-Medicare at a click a medical Chatbot using machine learning Algorithm	Rani Astya, Puja Kumari, Apoorva Goswami, Abinash Senapati	International Research Journal of Modernization in Engg. Technology & Science	2021
Improving Scalability, Sparsity and Cold Start user Issues in Collaborative Tagging with Incremental Clustering and Trust	Latha Banda, Karan Singh	Recent Advances in Computer Science and Communications	2021
Opposition-based learning inspired particle swarm optimization (OPSO) scheme for task scheduling problem in cloud computing	Mohit Agarwal	Journal of Ambient Intelligence and Humanized Computing (AIHC)	2021
CGP: Cluster-based gossip protocol for dynamic resource environment in cloud	Srivastava, S., Saxena, S., Buyya, R., Kumar, M., Shankar, A., & Bhushan, B.	Simulation Modelling Practice and Theory	2021
A Systematic Review & Catalog of Security Metric During the Secure Software Development Life Cycle	Sampada G.C., Tende Ivo Sake and Amrita	Recent Advances in Electrical & Electronic Engineering	2021
Voting-Ensemble Classification for Email Spam Detection	Naina Nisar, Nitin Rakesh and Megha Chhabra	International Conference on Communication Information and Computing Technology	2021
Review on Email Spam Filtering Techniques	Naina Nisar, Nitin Rakesh	International Journal of Performability Engg.	2021
Select this result for bulk action CiteHybrid and dynamic clustering based data aggregation and routing for wireless sensor networks	Rajesh Kumar Dhanaraj, K. Lalitha, S. Anitha, Supriya Khaitan, Punit Gupta, Mayank Kumar Goyal	Journal of Intelligent & Fuzzy Systems	2021



DEPARTMENT OF ELECTRICAL ELECTRONICS AND COMMUNICATION ENGINEERING

Vision

To become an internationally acclaimed destination of academic excellence in the discipline of Electrical, Electronics and Communication Engineering by promoting research, innovation and entrepreneurship to serve society.

Mission

- M1: To provide comprehensive technical knowledge in Electrical, Electronics and Communication Engineering.
- M2: To facilitate and foster the industry-academia collaboration to enhance technical skills & employability.
- M3: To promote interdisciplinary and multi-disciplinary research, innovations and entrepreneurship to serve society.
- M4: To develop core values, professional ethics and lifelong learning skills through interactive support systems.

MoU

Department of Electrical Electronics and Communication Engineering, SET, Sharda University has signed MoU with SGS Teknics manufacturing Pvt Ltd.

SGS Teknics Manufacturing Pvt Ltd is a pioneer in manufacturing of populated PCBs, Electronic subassemblies and Modules for Industrial and automotive purposes.

FDP/WEBINARS

Webinar on "Entrepreneurship" | Department of EECE, 26th June 2021

Department of Electrical Electronics and Communication Engineering, SET, Sharda University has organized a Webinar on "Entrepreneurship" on 26th June 2021.

Objectives of the event: With its emphasis on innovation, entrepreneurship is considered as a tool for both enterprises and economies to create long-term competitive advantage. This webinar will concentrate on business start-ups & growth. Its goal is to provide students a better understanding of the problems & issues that come with starting and managing a new business or project.

Resource Person: Dr. Rita Sen Gupta, Trainer, Facilitator and Consultant in Development.

• One-week E-Faculty Development Program (E-FDP) on "Development of Smart Cities-Perspective from Electrical and Electronics Engineering" 29th June-4th July 2021

Department of Electrical Electronics and Communication Engineering, School of Science and Technology (SET), Sharda University in collaboration with Tevatron Technologies Pvt. Ltd. Noida, Uttar Pradesh had organizing one-week E-Faculty Development Program (E-FDP) on "Development of Smart Cities – Perspective from Electrical and Electronics Engineering" Name of the Event: One-week E-Faculty Development Program (E-FDP) on "Development of Smart Cities – Perspective from Electrical and Electronics Engineering"

Speakers:

- Dr. Manav Bhatnagar, IIT Delhi, Delhi
- Mr. Anurag Gupta, Tevatron Technologies Pvt. Ltd, Noida



- Mr. Rajeev Tiwari, Tevatron Technologies Pvt. Ltd, Noida
- Dr. Praveen Kumar, Next Lab Pvt. Ltd. Lucknow
- Dr Majaid Jamil, Jamia Millia Islamia, Delhi
- Dr. Munna Khan, Jamia Millia Islamia, Delhi
- Dr. Ashish Shrivastava, Manipal University, Jaipur
- Dr. Sanjay Aggarwal IGNOU, Delhi
- Dr. Vinod Yadav, DTU, Delhi
- Dr. Vijendra Singh NSUT, Delhi
- Dr. Perna Gaur, NSUT, Delhi

• **Webinar on Importance of code of ethics in academics: Issues and Challenges 17th June 2021**

School of Engineering and Technology, SET, along with Internal Complaints Committee (ICC) has organized a Webinar as a part of promotion of Code of Conduct in Institutions: "Webinar on Importance of code of ethics in academics: Issues and Challenges".

Resource Persons:

- Mr. Harish Kumar Tiwari, Assistant Professor, School of Law, Sharda University Phone: +91 96502 23921

• **Webinar on "Fundamental Rights and Duties under Indian Constitution" 15th June 2021**

School of Engineering and Technology (SET), along with Internal Complaints Committee (ICC), Sharda University has organized a Webinar on "Fundamental Rights and Duties under Indian Constitution" as a part of the promotion of sensitization for values, rights, duties for NAAC-7 criteria.

Objectives of the event:

- To give awareness about "Fundamental Rights and Duties under Indian Constitution".

Resource Persons:

- Prof. (Dr.). Pradeep Kulshrestha, Dean, School of Law, Sharda University

Faculty Achievements

Dr. Shailendra Tripathi

Attended five days of FDP on Outcome-Based Education at Sharda University during 05-09 July, 2021.

attended a one-week E-FDP on the Development of Smart Cities- Perspective from Electrical and Electronics Engineering 29 June- 03 July, 2021.

nominated as Reviewer in 7th International Conference on Signal Processing and Communication (ICSC-2021), IIIT Noida

Dr. Amit Sehgal

- Publication in SCI indexed journal (impact factor 4.02):
Smriti Sachan, Rohit Sharma, Amit Sehgal, "Energy efficient scheme for better connectivity in sustainable mobile wireless sensor networks", Sustainable Computing: Informatics and Systems, Volume 30, 2021, 100504, ISSN 2210-5379, <https://doi.org/10.1016/j.suscom.2020.100504>.
- Dr. Amit Sehgal has Completed Innovation Ambassador Advanced Level Training from Ministry of Education Innovation Cell (30 June - 30 July 2021) - Certificate enclosed.





SCHOOL OF ENGINEERING & TECHNOLOGY

WAVE NEWSLETTER LENGTH

ISSUE: AUGUST TO SEPTEMBER, 2021

Patent:

Dr. R. M. Mehra

Title of the invention : SMART WALKING ASSISTANCE DEVICE FOR VISUALLY IMPAIRED PEOPLE

Name of Applicant : 1) SHARDA UNIVERSITY Address of Applicant: 32-34, Knowledge Park III, Greater Noida, 201310, Uttar Pradesh (UP), India
Uttar Pradesh India (72) Name of Inventor: 1) Srishti Agarwal 2) Dr. Mohit Sahni 3) Dr. Lalit Chauhan 4) Dr. R. M. Mehra 5) Dr. Sunil Chauhan

Campus Placements & Higher Studies

STUDENT	NAME OF THE COMPANY/ORG.	HIGHER STUDIES
Mizab Rehmat Hemant Kumar Afnan Hassan Khan Karan Singh Rana Sahil Shah Nishant Dixit Prakash Afsar Ahmad Anjali	Quarus Pneumatics India(P) Ltd. Wipro HR Services Entab Infotech Pvt. Ltd. Wipro HR Services Byju's Amazon VIVO Mobile India Pvt. Ltd. Wipro Absolute Projects , info@apil-online.com	Meekontchou Tsamo Franc Kevin Sharda University, Greater Noida (M.Tech.) Deepu Jha Bharati Vidhyapeeth Banasthali Rajasthan (M.Tech.)



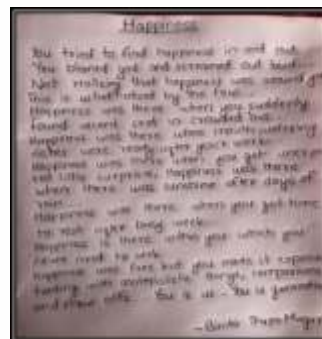
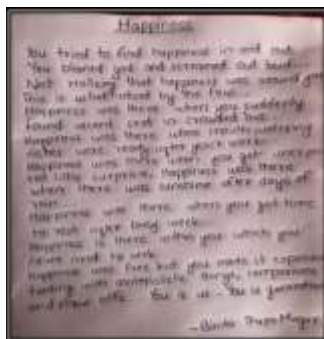


MECHANICAL ENGINEERING

Events organized

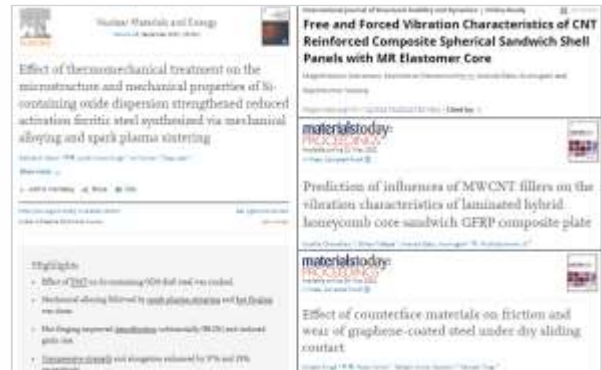
Name of the Events:

- Online Tree Plantation Drive
- FDP on Emerging Trends in Mechanical Engineering
- Poetry writing (English or Hindi) addressing any social issue prevalent in the society
- Webinar on "Entrepreneurship – idea to startup and funding"



Publications

- Effect of thermomechanical treatment on the microstructure and mechanical properties of Si-containing oxide dispersion strengthened reduced activation ferritic steel synthesized via mechanical alloying and spark plasma sintering by Lavish Kumar Singh et al.; Journal of Nuclear Materials and Energy; I.F.2.32
- Free and Forced Vibration Characteristics of CNT Reinforced Composite Spherical Sandwich Shell Panels with MR Elastomer Core by Ananda Babu et al.; International Journal of Structural Stability and Dynamics; I.F.2.558
- Prediction of influences of MWCNT fillers on the vibration characteristics of laminated hybrid honeycomb core sandwich GFRP composite plate by Ananda Babu et al.; Materials Today: Proceedings
- Effect of counter face materials on friction and wear of graphene-coated steel under dry sliding contact by Sudesh Singh et al.; Materials Today: Proceedings





Patents

- Title: Mountain Bike; Design published on 04.06.2021; Patenter: Mr. Abhshek Bhattacharya, Dr. Bhim Singh, Dr. Parma Nand et al.
- Title: Pedal Operated Forklift; Design published on 23.07.2021; Patenter: Mr. Shishir Acharya, Mr. Abhshek Bhattacharya, Mr. Abhinav Dwivedi,, Dr. Hianshu Payal, Dr. Bhim Singh, Dr. Parma Nand et al.

Memorandum of Understanding

- Memorandum of Understanding was signed between the Department of Mechanical Engineering, School of Engineering & Technology, Sharda University, Greater Noida & Krishwave Engineering Solutions India Pvt. Ltd. For skill development, outcome based trainings and related services.

Advance Valves Private Limited Plant Visit

- The team of Mechanical Engineering who are working on the MoU with Advance Valves Private Limited along with Prof Parma Nand, Dean Academics, visited both the plants of the company. The team discussed with the MD, Head HR, Head Mechanical and other senior executives of the company regarding placement, consultancy, student's internship and product gallery.



- Prof. Vijay Gupta has been appointed as Honorary Professor in the Department of Applied Mechanics at IIT Delhi. He has also completed video recording of a complete course on Fluid Mechanics at IIT Delhi on invitation.
- Mr. Ahmad Reshad Bakhtari has been selected for the Ph.D. program of the Indian Institute of Science, Bangalore, India, in the Centre for Product Design and Manufacturing, for the academic year 2021.



**SCHOOL OF
ENGINEERING & TECHNOLOGY**

WAVE NEWSLETTER **LENGTH**

ISSUE: AUGUST TO SEPTEMBER, 2021

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