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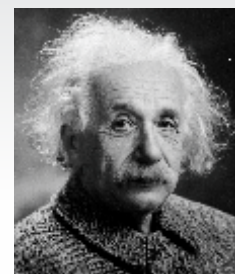
EDITORIAL TEAM

INSPIRING QUOTE

“

Education is not the learning of facts, but training the mind to think.

”



Albert Einstein
Theoretical Physicist



FROM DEAN'S DESK

“

*The best way to predict **the future is to create it.***

”

Dear Readers,

Jack Welch was fond of saying “Before you are a leader, success is all about growing yourself. When you become a leader, success is all about growing others.” At the SET, we develop future leaders and instill in them the skills and abilities to lead with confidence, passion, and with heart.

In the same spirit, I am pleased to brief about various student activities and faculty achievements of SET for the period April-May 2019. We are proud to announce that one of our final year students, Mr. Mohit Srivastava (Civil Engineering) has been offered admission in MS Wood Science and Engineering program at the Oregon State University in US with full funding. The program is top ranked in US. Third year student (CS-IBM), Mr. Faizan Akhtar, has been appointed as Google Developer Student Club Lead (DSC-lead) for Sharda University for the session 2019-2020. He will be getting training from Google developers and trainers and will create a developer community in Sharda University. Dr. Sachin Teotia (faculty, Biotechnology) has received a research grant of Rs fifty-eight lakhs from SERB, Ministry of Science and Technology. Prof. Parma Nand, Dean SET was awarded national “Education Technology Award” by Express Computers.

We have many new things to talk about in the months ahead, including excellence in teaching and learning and exciting career initiative accomplishments. We need to continue to tell the story of all the great things we do; especially the ways we engage students, businesses, and communities across.

Dr. Parmanand, Dean, School of Engineering & Technology



HACKATHON 2019

As part of the Winter Carnival, commemorating the 28th Foundation Anniversary of the GNIDA, Sharda University in association with GNIDA, organized a 24-hour long hackathon titled "Technovation Hackathon" on Jan 26th-27th, 2019. This event brought together almost 400 students from over 30 educational institutions from Delhi-NCR and other parts of the country. The participants worked in small groups of 3-5 students, to solve any thematic problem from any one of the 4 major themes of the event: Waste Management, Security & Surveillance, Smart Transportation & Traffic Management, and Energy Efficiency & Green Energy. Prizes worth 3 lakh were awarded to the winners including the top prize of Rs. 50,000/-.

CEO-GNIDA Shri Narender Bhoosan presided the awards ceremony, accompanied by the Chancellor- Shri. P. K. Gupta & Pro-Chancellor- Shri. Y. K. Gupta of Sharda University. All the dignitaries were all praises for the efforts put together by the participants and more details of several of these ideas have been requested by the GNIDA for potential implementation. The organizing team of the event constituted the Heads of engineering dept., headed by the Dean-SET, & ably supported by faculty, staff & students of SET.



WASTE MANAGEMENT WINNERS

First Winner

Team No. 151/Fruit Filter of Sharda University
(30000/- Rs.)

- PareshRawat, (Collected Cheque on behalf of team)
- VaishnawiWats • AlviraFaitma • Somya Singh

Second Winner

Team No. 142/Tech Driver of Dronacharya Group
of Institution (20000/- Rs.)

- DevidNegi, (Collected Cheque on behalf of team)
- Chandini

Third Winner

Team No. 03/TheRecylo of Sharda University
(10000/- Rs.)

- NehaKandpal, (Collected Cheque on behalf of team)
- Ritu Rani • ArifSattar • GeetanjaliAnand
- Waish Karan • Vartika Jain





STUDENT ACHIEVEMENT

Final year student Mr. Mohit Srivatava of Civil Engineering department, School of Engineering and Technology has been offered an admission in MS Wood Science and Engineering program at the Oregon State University in US with full funding. The program is ranked no. 1 in US.

Third year student (IBM) Mr. Faizan Akhtar of Computer Science Engineering department, School of Engineering and Technology has been appointed as Google Developer Student Club Lead (DSC-lead) for Sharda University on 25th January, 2019 for the session 2019-2020. He will be getting training from Google Developers and Trainers and will create a Developer community in Sharda University.

Pandit Deen Dayal Upadhyay Manch, in association with Manyavar Kanshiram Government. Degree College, Ghaziabad organized a one day National Seminar on Plastic Waste Free India on January 29th, 2019. Students of Biotechnology (SET), Sharda University, Greater Noida participated and won prizes in following categories:-



TECHNICAL SESSION, ORAL PRESENTATION

I Prize- Ankit Khugshal & Raksha Anand (Oral Presentation)

II Prize- Akshay Kr. Arya, Ankit Kumar, Rameez J. Khan, Rajat Kr. Jha, Aparna Srivastava, Hamza Nizamuddin (Poster presentation)

III Prize- Ankita Singh (Oral Presentation)

POSTER MAKING COMPETITION

First Prize - Sovik Chaudhary, Shraddha Sahu, Nancy Gupta
Shubham Srivastava



BIOTECHNOLOGY ENGINEERING

EXTERNAL RESEARCH FUNDS

- Dr. Sachint Teotia has received sanction of Rs Fifty eight Lakhs, from SERB, Ministry of Science and Technology for his project entitled "Increasing seed oil content in Indian mustard by depressing acetyl CoA carboxylase through silencing of inhibitors"

AWARDS AND HONORS

- Dr. Ram Saran Chaurasiya received Young Scientist Award in National Conference on "Recent Advances in Management of Health, Environment, Science and Technology" organized by MPCST Bhopal, M.P. India
- Students from Department of Biotechnology won First Prize (Rs. 30,000/-) in "Technovation Hackathon" organized Greater Noida Industrial Development Authority (GNIDA) in association with Sharda University, on 26-27 January 2019. Under the mentorship of Dr. Ram Saran Chaurasiya they developed a 'FruitFilter' for solid waste management under the sub theme "Waste Management". The students were Pravesh Rawat, Sonali Sharma, Tushita Bishnoi, Vaishnavi Wats, Alvira Fatima and , Somya Singh.



PUBLICATIONS

- Prof. Rita Singh Majumdar published a book entitled "Encyclopaedia of Indian Medicinal Plants: 2019", Write and Print Publications, New Delhi.
- One research paper by Dr. Garima Chauhan got accepted in PLOS Neglected Tropical Diseases. Title of the paper is "Cinnamomum cassia exhibits antileishmanial activity against Leishmania donovani infection in vitro and in vivo,"
- Prof. Rita S. Majumdar has chaired the technical session and delivered lecture as a key note speaker in the 2nd International Conference on "Environmental Pollution and Its Control (EPIC-2019)" during 18-19 February 2019 in Banswara (Rajasthan). It was organized by Government Engineering College, Banswara (Rajasthan) in association with BVM, Vidyanagar (Gujarat).
- Dr. Ram Saran Chaurasiya received INSA Visiting Scientist Fellowship 2019 from Indian National Science Academy, New Delhi, India.
- The same group also won Second Prize (Rs. 2,000/-) in "Contrivance 2019" organized by SET, Sharda University, Greater Noida on 18-19 April 2019.





WORKSHOPS

- Prof. Rita Singh Majumdar published a book entitled "Encyclopaedia of Indian Medicinal Plants: 2019", Write and Print Publications, New Delhi.
- One research paper by Dr. Garima Chauhan got accepted in PLOS Neglected Tropical Diseases. Title of the paper is "Cinnamomum cassia exhibits antileishmanial activity against Leishmania donovani infection in vitro and in vivo,"



PAPER PRESENTATION

- Dr. Ram Saran Chaurasiya presented a paper on "Wealth from solid waste generated at agricultural/food processing level" in National Conference on "Recent Advances in Management of Health, Environment, Science and Technology" organized by MPCST Bhopal, M.P. India.
- Mr. Mulegeta Gudisa Goro and Ms. Pragati Sahai, PhD Scholars (supervisor Dr. Vimlendu Bhushan Sinha) of the department participated in National Conference on Biotrendz: Technological advancement and challenges in the field of Biotechnology held on 23-24 April, 2019 at Noida Institute of Engineering and Technology, Greater Noida. Their work was appreciated by different participants of the conference and Ms. Pragati Sahai won the second position in oral presentation category along with a cash prize of Rs. 2000/-



FACULTY DEVELOPMENT PROGRAM

- Dr. Ram Saran Chaurasiya attended an FDP on "MOOC: What, Why and How" Organized by Sharda University, Greater Noida, Uttar Pradesh, India on 30th March, 2019.
- Dr. Ram Saran Chaurasiya attended an FDP on "How to plan, write and submit project proposals" Organized by Sharda University, Greater Noida, Uttar Pradesh, India on 31st January, 2019.



CIVIL ENGINEERING

STUDENTS SOLVING TRAFFIC PROBLEMS IN GREATER NOIDA

B. Tech. Civil Engg. students are working towards solving the traffic problems in Greater Noida. As a stepping stone, students of 3rd year B.Tech. (Civil Engg) have carried out extensive traffic surveys at Pari Chowk, under the guidance of Col (Retd.) Vivek Mathur, to study the vehicular patterns at the most congested traffic intersection in the city. Student teams, led by our faculty, have designed an extensive technical plan for decongesting Pari Chowk. The plan has already been presented to the GNIDA & DM (Gautam Buddha Nagar) office and is expected to be implemented soon.

In continuation, our first year students, as part of their summer internship, shall conduct traffic surveys in other locations of Greater Noida that require engineering solutions for traffic management.

RESEARCH PUBLICATIONS

- Adil Yousuf (M.Tech. Structural Engineering Student) & Nishant Kumar (Assistant Professor C.E.) has published a paper on "Reliability Study of High Performance Concrete Under Carbonation Attack" in IJTIMES, e-ISSN: 2455-2585, Volume 5, Issue 3, March, 2019.
- Bisakha Chalisey (M.Tech. Structural Engineering Student) & Nishant Kumar (Assistant Professor C.E.) has published a paper on "Effect of Sulphate Attack on Mechanical Properties of Engineered Cementitious Composite Concrete: A Review" in IJTIMES, e-ISSN 2455-2585, March, 2019.
- Chandan Sahani (M.Tech. Structural Engineering Student), Sunil Saharan (Assistant professor C.E.), Rahman Wali (M.Tech. Structural Engineering Student) & Bello Safiyanu (M.Tech. Structural Engineering Student) has published a paper on "Planning and Design of Multistorey Bus Parking: A Review" in IJTIMES, e-ISSN: 2455-2585 Volume 5, Issue 4th, April, 2019.
- Bello Safiyanu (M.Tech. Structural Engineering Student), Sunil Saharan (Assistant professor C.E.), Chandan Sahani (M.Tech. Structural Engineering Student) & Rahman Wali (M.Tech. Structural Engineering Student) has published a paper on "High Performance Self Compacting Concrete: A Review" in IJTIMES, e-ISSN: 2455-2585 Volume 5, Issue 04, April, 2019.
- Lalmuanpuia Khiangte (M.Tech. Structural Engineering Student), Sarmishtha Rudra Paul (Assistant professor C.E.) has published a paper on "Use of Woodash in Non-Autoclaved Aerated Concrete" in IJTIMES, e-ISSN: 2455-2585 Volume 5, Issue 3, March, 2019.
- Urusha Shrestha (M.Tech. Structural Engineering Student) & Nishant Kumar (Assistant Professor C.E.) has published a paper on "Water Tanks as tuned mass dampers in High rise buildings" in IJTIMES, e-ISSN: 2455-2585 Volume 5, Issue 2, February, 2019.
- Shimelis Berihe, PhD (C.E.) student has presented a paper on "Low-cost building materials and Building Technologies for Ethiopia" in International Conference on Smart Cities (ICSC-2019), 8th-9th March, 2019 in Ansals University.
- Dilpreet Singh (M.Tech. Structural Engineering Student) & Megha Gupta (Assistant Professor) has published a paper on "A review on effect of different chemical admixtures on High Strength Concrete" in IJTIMES, e-ISSN: 2455-2585 Volume 5, Issue 2, February, 2019.
- Umar Ayaz (M.Tech. Structural Engineering Student) & Megha Gupta (Assistant Professor) has published a paper on "Review paper on Self healing Concrete" in IJTIMES, e-ISSN: 2455-2585 Volume 5, Issue 2, February, 2019.
- Zorinkima (M.Tech. Environmental Engineering Student) presented a paper on "Suitability of precast technology for smart cities in India" in International Conference on Smart Cities (ICSC-2019), March 8-9, 2019 in Ansals University.
- Ashraf Mohi Ud Din Mir (M.Tech. Structural Engineering Student) & Megha Gupta (Assistant Professor) has published a paper on



- “Effect of Bamboo fibre on the properties of Pavement Quality Concrete: A Review” in IJTICES, e-ISSN: 2455-2585 Volume 5, Issue 2nd, February, 2019.
- Baiahunlangkihao Suja (M.Tech. Structural Engineering Student) & Megha Gupta (Assistant Professor) has published a paper on “Analysis and Design of multi-storey R.C.C. frame structures using computer modelling tools: A Review” in IJTICES, e-ISSN: 2455-2585 Volume 5, Issue 2, February, 2019.
 - Bisakha Chalisey, Bikram Raj Gyawali (M.Tech. Structural Engineering Students) & Megha Gupta (Assistant Professor) has published a paper on “Finite Element Analysis of Multi-storey Steel Frame Structure Subjected to Seismic Ground Motions: A Review” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 698-700, April, 2019.
 - Mayank Aggarwal (M.Tech. Structural Engineering Student) & Megha Gupta (Assistant Professor) has published a paper on “Review Study on The Analysis and Design of Prestressed Concrete Bridges” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 562-565, April, 2019.
 - Falak Iftikhar (M.Tech. Structural Engineering Student) & Afreen (Assistant Professor) has published a paper on “Effect of Chemical Admixtures on Fresh and Hardened Properties of Concrete: A Review” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 473-477, April, 2019.
 - Samina Nusrat and Haiyah Qureshi (M.Tech. Structural Engineering Students) have published a paper on “Non-Linear Finite Element Analysis of Reinforced Concrete Beams with Temperature Differentials: A Review” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 408-410, April, 2019.
 - Khalid Ahmed (M.Tech. Structural Engineering Student) & I. Saranya (Assistant Professor) has published a paper on “Numerical and Experimental Studies on The Behaviour of Steel-Concrete-Steel Beam: A Review” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 350-353, April, 2019.
 - Harris Jameel (M.Tech. Structural Engineering Student) & I. Saranya (Assistant Professor) has published a paper on “Experimental study on light weight concrete by partial replacement of cement by flyash, coarse aggregate pumice stone and polystyrene beads: A Review” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 346-349, April, 2019.
 - Rahul Sharma, Hafizullah Amin (M.Tech. Structural Engineering Students) & Megha Gupta (Assistant Professor) has published a paper on “A Brief Reviews of Methods for Embedded Predefined Interfaces in Finite Elements Analysis” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 307-310, April, 2019.
 - Surya Pratap Singh (M.Tech. Structural Engineering Student) & Nishant Kumar (Assistant Professor C.E.) has published a paper on “Review of Self-Compacting Concrete Using Corrosion Inhibitors” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 199-202, April, 2019.
 - Bikram Raj Gyawali (M.Tech. Structural Engineering Student) & Nishant Kumar (Assistant Professor C.E.) has published a paper on “Seismic Strengthening of High Rise Structures By Passive Dissipating Systems A Review” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 439-442, April, 2019.
 - Faizan Rahman (M.Tech. Structural Engineering Student) & Nishant Kumar (Assistant Professor C.E.) has published a paper on “Voided Reinforced Concrete Slabs: A Step towards Sustainable Development” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 478-480, April, 2019.
 - Ashish Shaji (M.Tech. Construction Management) & Nishant Kumar (Assistant Professor C.E.) has published a paper on “Factors Affecting Labour Productivity in A Construction Project: A Review” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 1027-1029, April, 2019.
 - Nishant Kumar (Assistant Professor C.E.), Megha Gupta & Sunil Saharan has published a paper on “ Vertical Irregularities on Reinforced Concrete Frame Buildings” in IJTICES, e-ISSN: 2455-2585, Volume 5, Issue 4, pp. 198-204, February, 2019.



AWARDS

- **Mohammad Tahfeem Wani, Danish Shafi Mir, Furqan Ali**, students of 3rd year Civil Engineering Participated in football competition in Indian College Sports League on 5th-7th April, 2019 and were winner of the competition.
- **Sakshi Rai, Mandil Bhadur Thapa**, 3rd year students of B. Tech. Civil Engineering begged 2nd prize for the poster presentation in Research Symposium (Contrivance) organized by School of Engineering and Technology, Sharda University.



- **Ahmad Mohammad Ibrahim Abdulrauf, Bohngam Konyak, Waheedullah Hotak**, 4th year students of B.Tech. Civil Engineering begged 3rd prize for the poster presentation in Research Symposium (Contrivance) organized by School of Engineering and Technology, Sharda University.

EVENTS/ WORKSHOPS

- Department of Civil Engineering, SET organized a Guest Lecture on "Latest Technologies being used in Design like AutoCAD, Revit, Staad.Pro and Project Management" on 15th April, 2019 for 2nd year Civil Engineering Students. Dr. Gaurav Saini (Associate Professor C.E.) was the convener of the event whereas Ms. Afreen (Asst. Professor) & Ms. Sukalpaa (Assistant Professor) were the co-convener of the event. Amit Tiwari from LeLogix Design Solutions Pvt. Ltd. was the speaker of the guest lecture and 45 students participated in the lecture.





- Department of Civil Engineering, SET organized a Guest Lecture on “Rivet workshop” on 16th April, 2019 for 3rd year Civil Engineering Students. Dr. Gaurav Saini (Associate Professor C.E.) was the convener of the event whereas Ms. Sukalpaa (Assistant Professor) and Ms. Megha Gupta (Assistant Professor) were the co-convener of the event. Amit Tiwari from LeLogix Design Solutions Pvt. Ltd. was the speaker of the guest lecture and 56 students participated in the lecture.



- A workshop was organized by Mrs. Chhavi Gupta (Assistant Professor C.E.) on ETABS for the 2nd year & 3rd year Civil Engineering Students on 6th April, 2019. Speaker for the workshop were Shamsuddin Khan & Rayees Ali Khan (M.Tech. Structural Engineering Students). Objective of the workshop was to introduce students with ETABS, which is an engineering software product that caters to multi-story building analysis and design. Modeling tools and templates, code-based load prescriptions, analysis methods and solution techniques, all coordinate with the grid-like geometry unique to this class of structure. 36 students attended the workshop.



- Department of Civil Engineering organized Research Symposium as part of Contrivance. Dr. Gaurav Saini (H.O.D. Civil Engg.) was the coordinator of the event. 175 students participated in the event to present 77 different posters on various topics of research. Another event organized by the Department was Setu Nirman, in which 5 groups of 20 students participated.
- A seminar was conducted on 14th March, 2019 regarding 12d Model Software. The aim of this seminar was to make students aware about the new software and its application in various fields of Civil Engineering. 12d Model is powerful surveying, terrain modeling & civil engineering software. It allows fast production in a wide variety of projects including mapping, site layouts, road, rail & highway design, residential & land developments, and environmental impact studies. It is the complete, Survey, Mapping & Design solution. The seminar covered the topics on how 12d model design software can be used in the fields of Civil Engg. Dr. Gaurav Saini (HoD Civil Engg.) was the convener of seminar, Mrs. Pinaki Nayak (Assistant Professor C.E.) was the co-convener for the same. Speaker for the seminar was Dr. Soon Teh.



VISITS

- A visit was planned on 3rd April, 2019 for the students of M. Tech. to Festival City Noida. This is one of its kind of composite constructions in this area. It uses a combination of steel and RCC to enhance the speed of construction of tall multi-storied buildings. The students got the exposure to modern design, construction and project management techniques. Objective of visit was to familiarise the students undergoing M.Tech. courses in civil engineering about the modern methods of faster construction i.e. composite building construction techniques. Convener of the visit was Col Vivek Mathur (Associate Professor C.E.) where as Mr. Pallav (Assistant Professor C.E.) was the coordinator of the visit. 50 students participated in the visit.



- On 16th April, 2019 B. Tech. Civil Engg. 3rd year students were taken for a Traffic Survey to Pari Chowk (Greater Noida), which is the main landmark by which the city is identified. The city is an extremely well-planned with a good wide road network. Unfortunately, over the years, haphazard growth, un-monitored rise in traffic and poor obedience of traffic rules have led to major traffic jams at Pari Chowk, thus taking a lot of sheen out of the beautiful landmark. As part of their contribution to the society, the children of 3rd year B.Tech Civil Engineering were asked to do a study on the traffic pattern and volume at Pari Chowk and provide the best, least cost and permanent solution to the traffic problem of Pari Chowk. The objective of the survey was to teach the students how to carry out a traffic volume survey. Analyse the results and as part of their contribution to the society provide the best, least cost and permanent solution to the traffic problem of Pari Chowk. Col. Vivek Mathur (Associate Professor) was the convener of the survey and Col. N. K. Sharma was the co-convener for the same in which 87 students participated.





PLACEMENTS

Mr. Wajahat Hussain Mir, Ms. Syed Atrooba Qureshi & Mr. Arbaz Khan, 4th year students of B.Tech. Civil Engineering has been placed in **Extra Marks Education Pvt. Ltd.** through campus interview held on 26th April, 2019 at Sharda University campus.



COMPUTER SCIENCE AND ENGINEERING

Prof. (Dr) Parma Nand, Dean of SET was awarded as Education Technology Awards, by Express Computers at National Level.



Technical Fest

Contrivance started in 2014 as a Technical festival of Sharda University has emerged to be North India's Largest Techfest, a conglomeration of scientific thinking and innovation. With a foot in every genre, the fest caters to an audience of 10,000 and more, one of the largest college gatherings across north India. It provides a platform for one and all to witness one of the most beautiful and groundbreaking amalgamations of science and technology with pure delight and enthusiasm.

Objectives of Event

Technical Fest plays an important role in college Life. It is one such event where young brains get to showcase their skills and compete with others to find the best. It is not just about the competitions but also a place where all new ideas can be seen live and participants learn more and be inspired.



MAIN EVENTS

- **YANTRA:** An event for Robot Fetishistic where they can show how efficient their Robo is.
- **SETU NIRMAN:** An event to design a truss bridge using ice cream sticks satisfying the stated constraints.
- **CAPTURE THE FLAG:** Task is to look for clues to dig the answers and the only medium would be the computer.
- **MECH EXHIBITION:** Showcase of Sharda built all-terrain vehicles made by the students.
- **CONSTIQ:** A legal knowledge quiz to test a student's legal awareness.
- **MOCK IPL:** An IPL auction in which the one with the best team wins.

Faculty Coordinator: Dr. Pooja



COMMUNITY CONNECT

- Department of Computer Science and Engineering, School of Engineering & Technology is organizing a Community Connect: A Visit to Govt. Prathmik Swasth Kendra, Village Makoda, Gautam Buddha Nagar, for the students of MCA (2nd year) Computer Science & Engineering on 25th April, 2019.

Conveners: Prof. (Dr) Parma Nand, Dean SET & Prof. (Dr) Nitin Rakesh, HoD CSE

Coordinator: Dr. Ali Imam Abidi





- Department of Computer Science and Engineering, SET is organizing Visit to Backward area of Jagat Farm Marketplace as Community Connect on 25th April 2019.

Through this Community, Connect Program student will be able to:

Address day-to-day life activities and problems, Know and understand the Challenges of small scale businesses (Low Earning Business), Possibilities of Identifying Technological Solution to below poverty line people.

Convener: Prof. (Dr) Parma Nand, Dean SET, Prof. (Dr.) Nitin Rakesh, HoD CSE

Coordinator: Dr. Mandeep Kaur

TALK SHOW

Department of Computer Science and Engineering, School of Engineering and Technology (SET), is organizing an event in presence of Founder and CEO of GeeksforGeeks, Mr. Sandeep Jain on 16th April, 2019.

OBJECTIVE OF EVENT

The event focuses on life experiences and technology. It also focuses on the thoughts of students towards innovative skills. This event is a part of learning and growth to everyone.

Convenors: Prof.(Dr.) Parma Nand, Dean, SET & Prof.(Dr.) Nitin Rakesh, HoD, SET

Coordinators: Dr. Pooja, Mr. Dharm Raj, Ms. Anamika Mitra.

Speaker: Mr. Sandeep Jain





WORKSHOP

- Ms. Rani Astya, Ms. Anamika Mitra and Ms. Nishu Singh from computer science and Engineering are invited to celebrate International IoT day with **"Women in IoT"** at Aries in 9th April, 2019.
- Dr. Pooja, Ms. Anamika Mitra, Ms. Neha Tyagi and Ms. Preeti Dubey has attended the one day interactive workshop on **"MOOC: WHAT WHY and HOW"** at Sharda University.
- Dr. Sudeshna Chakraborty has attended One day workshop on **"SCILab"** organized by Dronacharya Institute of Engg.
- Dr. Sudeshna Chakraborty has attended One day workshop as a session trainer on **"Research Paper Writing In Scopus & Peer Indexed Journals"** organized by Lingayas Lalita Devi Institute of Management & Information Science, New Delhi.
- Department of Computer Science and Engineering, has organised a workshop on **"DATA MINING & PREDICTIVE MODEL"** on 20th April, 2019 for IBM, Business Analytics students.

Objective of Event: The objective of this workshop is to make the student aware about how to extract the useful data from data set and process them to obtain information that has an understandable structure using data mining.

Convenor: Prof.(Dr.) Parma Nand, Dean, SET | Prof.(Dr.) Nitin Rakesh, HoD, SET

Coordinator: Ms. Sanika Singh

Co-Coordinator: Ms. Amrita

- Dr. Pooja Conducted One day Workshop on **"Machine Learning Workshop"** at Faculty of Engineering & Technology, Gurukul Kangri Vishwavidyalya, Haridwar on 22nd April, 2019.
- Department of Computer Science & Engineering, had organized one day workshop/seminar for B.Tech. students on the 9th April, 2019.

Objectives: To equip the SET students with required professional networking skill expertise in the domain area of Huawei.

Convenor: Prof.(Dr.) Parma Nand, Dean, SET | Prof.(Dr.) Nitin Rakesh, HoD, SET

Coordinator: Dr. Ali Imam Abidi, Assistant Professor, CSE

Speakers: Mr. Sunil Kumar, Mr. Pankaj Sharma





FACULTY DEVELOPMENT PROGRAMME

- Dr. Sudeshna Chakraborty has Attended 5 days FDP on "Research Grants organized" organized by JNU, New Delhi.

PATENTS

- Dr. Sudeshna Chakraborty has filed a patent with application number 201921006207 on "**Solar Electrical Power Distribution & management**" for Agriculture purposes.

PUBLICATIONS

- Anil Yadav, Anurag Tripathi, Nitin Rakesh, Sujata Pandey, "**Protecting Composite IoT Server by Secure Secret Key Exchange for Xen Intra Virtual Machines**"; International Journal of Information & Computer Security, Inderscience. (Scopus Indexed)
- Swati Mittal Singal, Nitin Rakesh, Rakesh Matam, Ashish K. Adhikari, "**An Optimal Storage and Repair Mechanism for Group Repair Code in a Distributed Storage Environment**"; International Journal Intelligent Decision Technologies, IOS Press. (Scopus Indexed)
- Darothi Sarkar, Nitin Rakesh, K. K. Mishra, Abhishek Gangwar, "**Population Based Clustering to Enhance the Utilization of Surrogate in Content Delivery Networks**"; International Journal Intelligent Decision Technologies, IOS Press. (Scopus Indexed)
- Darothi Sarkar, Nitin Rakesh, Krishna Kumar Mishra, Anupama Mehra, "**Density-Aware Replica Server Placement for Utilization Enhancement**"; International Journal of Advanced Intelligence Paradigms, Inderscience. (Scopus Indexed)
- Anil Yadav, Anurag Tripathi, Nitin Rakesh, Sujata Pandey, "**Optimizing the DTLS handshake design for Trusted Execution Environment enabled sensor nodes**"; International Journal of Security & Networks, Inderscience. (Scopus Indexed)
- Abdul Rehman Khan, Nitin Rakesh and Rakesh Matam, "**Dimensionality Reduction for Insect Bites Pattern Recognition**"; 2nd International Conference on Smart IoT Systems: Innovation in Computing. (Scopus Indexed)
- Siddhant Goswami, Dinesh Singh Shekhawat, Neetu Faujdar, Nitin Rakesh and P K Rohatgi, "**Short Term Pollution Index Prediction using Principles of Machine Learning**"; 2nd



International Conference on Smart IoT Systems: Innovation in Computing. (Scopus Indexed)

- Karan Gupta, Nitin Rakesh and Neetu Faujdar, "**IoT Based Smart Car for Safety of Elderly People**"; 2nd International Conference on Smart IoT Systems: Innovation in Computing. (Scopus Indexed)
- Karan Gupta, Nitin Rakesh, Neetu Faujdar, Nidhi Gupta and Parm Anand, "**IoT Based Smart Hospital**"; 2nd International Conference on Smart IoT Systems: Innovation in Computing. (Scopus Indexed)
- Anzar Iqbal and Pooja, "**Intrusion Detection in Smart Grid using Machine Learning Approach**"; presented at Scopus indexed International Conference on Recent Trends in Computer Applications & Information Technology, Maharishi Markandeshwar University, Mullana, Ambala, 19th-20th April, 2019. To be published in SCOPUS index journal.
- Siraj Sebhatu, Ashok Sahoo, Pooja, "**A Review on Applications of Soft Computing Techniques for Pulmonary Tuberculosis Diagnosis**"; presented at International Conference on Recent Advancements in Management, Science, Technology, Education and Legal Issues, JEMTEC, Greater Noida, 30th-31th March, 2019. To be published in SCOPUS/UGC indexed Journal.
- Sultana Kadari, Amandeep Kaur, Pooja, "**Decorative Learning Based Decorative Text Detection**"; presented at International Conference on Intelligent Machines, Baba Farid Group of Institutions, 15th-16th March, 2019 in Springer.
- Garv Modwel, Nitin Rakesh, K. K. Mishra, "**Advanced Drowsiness Detection Systems Based on Human Activities and Videos**"; International Journal of Innovative Technology and Exploring Engineering. (Scopus Indexed)



ELECTRONICS & COMMUNICATION ENG., ELECTRICAL & ELECTRONICS ENG.

- Department of Electronics & Comm. Engg. SET had organized a half day Workshop on **"Simulation Tools PSPICE/HSPICE"** on 16 th April, 2019 for 4 th year ECE Students. Dr. Premanand Pany (Assoc. Prof.), ECE was the convener of the event. Dr. Rashmi Priyadarshini (Assoc. Prof.) ECE was the coordinator of the event. Mr. Shailendra Tripathi (Assis. Prof.) from ECE Department was the speaker of the Workshop and 18 students participated in the Workshop.
- Department of Electrical & Electrical Engineering SET had organized Workshop on **'PLC & SMART GRID'** from 1st -5th April, 2019 from 1:00-4:00 pm. The program is designed to help to understand technical knowledge about the PLC and Smart Grid with thrust on, hands-on training on the real-time applications. Dr. Premanand Pany (Assoc. Prof.), ECE was the convener of the event. Ranjeeta Singh (Assis. Prof.) was the coordinator of the event.
- Pragati Shikha and Priyanka Yadav 4th year students of Electrical & Electronics Engineering has been placed in Extra marks Education Pvt. Ltd. Through campus interview held on 26th April, 2019 at Sharda University campus.
- Department of Electronics & Comm. Engg., School of Engineering & Technology (SET), has organized three days workshop on **"Practical Aspects of MATLAB"** from on 25th-27th March, 2019. Dr. Premanand Pany (Associate Professor) ECE was the convener of the event whereas Dr. Rashmi Priyadarshini (Associate Professor), ECE and Ms. Ranjeeta Singh (Assistant Professor), EEE were the coordinator of the event. Ms. Usha Tiwari, Prof. Premamanda Pany & Prof. Sushant Mandal were the speakers of the Workshop and 40 students participated in the Workshop.
- Department of Electronics & Comm. Engg. organized an industrial visit in **"CISCO-Networking Lab"** at APTRON Solutions Noida Campus on 29th March, 2019 from 11:00 am to 3:30 pm for B.Tech. students. APTRON Solutions are registered partners of CISCO, REDHAT, Comptia, EC-Council, DELTA, SIEMENS, ANDROID ATC many more.
- Dr. Pallavi Gupta (Associate Professor) attended the conference **"Women in IoT"** at Aeries Comm. India pvt. Ltd. on 9th April, 2019.
- Dr. Pallavi Gupta (Associate Professor) Coordinated the Workshop on **"Women Self Defense"** on 20th April, 2019.
- Associate Professor Dr. Pallavi Gupta with M.Tech. students visited Ghanghola village and interacted with villagers under Community connect program on 9th March, 2019.





MECHANICAL & AUTOMOBILE ENGINEERING

The initiative taken up by Dean SET, HoD (M.E) with Mr. Mahesh Munjal and Team, CII Majestic promoting the skill through inter-college engagement with the theme of **"SKILL WILL LEAD"**.

- Mr. J. Aditya Vardhan, Mr. Nilanjan Das, Mr. Rishi Sharma and Mr. B. Sai Karthik, B.Tech. Mechanical Engineering students participated with the topic **"Robotics"** in the first phase of **CII Majestic "SKILL WILL LEAD" Competition at GLIBM**, Greater Noida and secured Second Position worth Rs. 15000 only as award remuneration held on 12th April, 2019. The participation of qualified students was initiated for participation on behalf selected universities/colleges of NCR. IMSEC Ghaziabad, ABES Ghaziabad, GLBITM Greater Noida, KIET Ghaziabad, AKGEC Ghaziabad, IMS Ghaziabad and Sharda University 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.
- Endurance Race • Enroute to Pune • Arrival at Pune • 1st T.I.
- Ready for T.I. • Endurance Race • 3rd T.I. Successful Completion
- The Department of Mechanical Engineering, School of Engineering and Technology, Sharda University organized an inter college engagement program "Confederation of Indian Industry (CII) - Majestic Skill Will Lead" with the objective for awaking students about the new technologies in the industry on 12th April, 2019. The participating colleges were IMSEC Ghaziabad, ABES Ghaziabad, GLBITM Greater Noida, KIET Ghaziabad, AKGEC Ghaziabad, IMS Ghaziabad and Sharda University. The program was convened by Dr. Parma Nand, Dean SET and Dr. Bhim Singh, HoD, Mechanical Engineering. The event was coordinated by Ms. Saigeeta Priyadarshini and Dr. Anuj Kumar Sehgal, in association with the entire faculty members of the department.





Mr. Praveen Rajpal in event "Industry 4.0 resolution" on 28th March 2019 in Sharda University

• The Department of Mechanical Engineering, School of Engineering and Technology had conducted a technical and an innovated visit for their B.Tech. Third Year Mechanical Engineering students with an aim to study the technology and design innovations in technical structure (Bowstring Arc Truss Bridge & Beam Bridge) joining the Medical Science block with Sharda Hospital on 19th March, 2019. The state of the art engineering design of the structure shall benefit the students to understand the concept of Statically determinate & Statically indeterminate truss designs, enable them to analyze the slope-deflection, force magnitude and force nature on each member comprises truss. The program was convened by Dr. Bhim Singh, HoD, Mechanical Engineering Prof. Dr. Vijay Gupta enlightened the technical aspects & the need of the construction. The event was coordinated by Dr. Anuj Kumar Sehgal & Dr. Vineet Kumar, in association with the entire faculty members of the department.



• Dr. Himanshu Payal (Assistant Prof. in School of Engg., Sharda University Mechanical Department) had presented the paper titled "Parametric Optimization of EDM Process for Inconel 825 Using GRA and PCA Approach" at International Conference on Data Sciences, Security and Applications (ICDSSA 2019), 07-08th March, 2019, Bharati Vidyapeeth's College of Engg., New Delhi, India.



• Dr. Himanshu Payal (Assistant Prof. in School of Engg., Sharda University Mechanical Department) had presented the paper titled "Parametric Optimization of EDM Process for Inconel 825 Using GRA and PCA Approach" at International Conference on Data Sciences, Security and Applications (ICDSSA 2019), 07-08th

March, 2019, Bharati Vidyapeeth's College of Engg., New Delhi, India.

• Dr. Himanshu Payal (Assistant Prof. in School of Engg., Sharda University Mechanical Department) had attended a One-day Interactive workshop The Moocs (Massive Open Online Courses) hosted on Swayam (Study Webs of Active-Learning for Young Aspiring Minds) on 30-03-2019.



• Mr. Tilak Rana as team leader of Team Titans Rage of Department of M.E under the supervision of Dr. Anuj Kumar Sehgal & Dr. Vineet Kumar has been short-listed for the next stage of evaluation of Smart India Hackathon SIH, 2019 Hardware Edition. The members of the team nominated are Mr. Subhash K. Mahato, Mr. Satya Prakash Gupta, Mr. Gurpal Singh, Mr. Munendra Sharma, Ms. Binita Thapa





JOURNAL CLUB ACTIVITY

The journal club in the Department of Mechanical Engg. started functioning on 01.09.2018. The eighth presentation was given by Dr. Ananda Babu, Associate Professor, on the topic "Design and development of multi-walled carbon nanotube reinforced honeycomb core composite sandwich plate to enhance the bending & shear properties. The department faculties & M.Tech. students attended this session.



SCIENCE & ENGG. RESEARCH BOARD

(A statutory body of the Department of Science & Technology, Government of India) released the Financial Sanction of the research project titled "Mechanical Characterization of Multi-functional CNT Reinforced Hybrid Honeycomb Core and its Failure Response Assessment in Integrated Composite Sandwich Shell Subjected to Combined Loading" under the guidance of Dr. Ananda Babu Arumugam, Department of Mechanical Engineering, Sharda University.

The entire department wishes him grand success in this project.

ACHIEVEMENTS OF B.TECH. ME STUDENTS

RAZIEL: AN ALL-TERRAIN VEHICLE

Dynamic Event of SAE BAJA AT IIT Ropar on 6-11 March 2019.

The SAE Club of Sharda University is the official representative of Sharda University in the national level ATV competitions like Bajasae India, ESI (Enduro Student India), Mega ATV India etc. the name of the team is Team Tornadoes Racing. Team Tornadoes Racing is a team formed by students of B.Tech. M.E and B.Tech. M.E. (A.E.) from all the years. It was a team of 19 members that work together to design and manufacture a single-seat All-Terrain Vehicle. The students were trained by the senior members on the basic of vehicle design and vehicle dynamics and they research and design an ATV following the rules and guidelines provided by the competition organizers. The vehicle was designed by keeping ergonomics and driver safety in mind. The students procure parts and manufacture parts of the vehicle by following proper engineering practices. The team manufactured vehicles since 2013 and till date five vehicles have been manufactured and have participated in multiple events. The current vehicle Raziel was an improvement in the vehicle design that focuses on compact design and customizability.

The design & analysis process was carried out by the students for the safety requirements of the vehicle. The competitions required the students to manufacture the vehicle with the assumption of making it a commercial product with the aim of producing 4000 such vehicles in a year. The event mind set helped the students to experience & consider real-time vehicle production practices and scenarios.

Name	Yr.	Name	Yr.
Shivam Negi	4th	Achintya Shantanu	2nd
Abid Hussain	4th	Jatin Malhotra	2nd
Siddhartha Bisen	4th	Ruchir Miglani	2nd
Akshay Taneja	4th	Abhinash Adhikari	2nd
Akash Singh	4th	Digvijay S. Adhikari	2nd
Faisal Ahmed	3rd	Amit Singh	2nd
Tilak Rana	3rd	Bijay Chaudhary	2nd
B. Sai Karthik	3rd	Soumendu Dutta	2nd
Sagun Acharya	3rd	Vivek Tiwari	2nd
Rishabh Sharma	2nd		



ENDURO STUDENT INDIA TEAM TORNADOES RACING AT PUNE MAHARASHTRA ON 15TH TO 19TH FEBRUARY, 2019

Enduro Student India is a national level event organized by Split Second Engineering Kolkata. Enduro Student India organizes events in two phases; the first phase is a rule book test during March which was qualified with 34th rank by Sharda University, after that the team is provided time to manufacture the ATV for the second phase that was organized from 15th to 19th of February which included dynamic and static events. Dynamic event is distributed into 7 phases-

- Technical inspection
 - Engine inspection
 - Brake test
 - Dirt X
 - Acceleration
 - Manoeuvrability
 - Endurance
- Static event is divided into two phases-
- Design event
 - Cost report

The marking scheme of the event is distributed relatively i.e. who has the highest score, determines the highest score of the particular event.

The event reported to be a success and a great achievement in behalf of entire Sharda University.





**SCHOOL OF
ENGINEERING & TECHNOLOGY**

WAVE NEWSLETTER LENGTH

ISSUE: JAN- 2019-MAY-2019





DEPARTMENT RESEARCH ACHIEVEMENTS

Research Publications:

- Anuj Kumar Sehgal, Vineet Kumar, Nitesh Kumar and Aman Gupta "Assembly of Mechanical Parts in Virtual Environment" pp. 433-440, Advances in Engineering Design, Lecture notes in Mechanical Engineering (Elsevier).
- Chand N. V., Vineet Kumar, Anuj Kumar Sehgal "An Analysis of a Duct with Different Vortex Generators for Performance Enhancement of a Solar Air Heater: Computational Fluid Dynamics (CFD)". Advances in Fluid and Thermal Engineering. Lecture Notes in Mechanical Engineering. Springer Nature, Springer Singapore, pp 637-645, 2019.



[Advances in Fluid and Thermal Engineering](#) pp 637-645 | [Cite as](#)

An Analysis of a Duct with Different Vortex Generators for Performance Enhancement of a Solar Air Heater: Computational Fluid Dynamics (CFD)

Authors

Authors and affiliations

Noel Vinsent Chand, Vineet Kumar , Anuj Kumar Sehgal

- Vineet Kumar, Anuj Kumar Sehgal, Abhishek Gupta "Experimental Investigation on a Solar Thermal Energy Packed Bed Sensible Heat Storage Combined with Latent Heat Storage. Advances in Fluid and Thermal Engineering. Lecture Notes in Mechanical Engineering. Springer Nature, Springer Singapore, pp 647-656, 2019.



[Advances in Fluid and Thermal Engineering](#) pp 647-656 | [Cite as](#)

Experimental Investigation on a Solar Thermal Energy Packed Bed Sensible Heat Storage Combined with Latent Heat Storage

Authors

Authors and affiliations

Vineet Kumar, Anuj Kumar Sehgal , Abhishek Gupta

- Shatrughan Singh, K. S. Srikanth & Bhim Singh, "Investigation on energy storage density and thermal energy harvesting capabilities in ferroelectric $[(1-x)Ba_{0.9}Ca_{0.1}TiO_3-x(BaSn_{0.2}Ti_{0.8}O_3)]$ ceramics" pp 28-37, vol. 192, 2018. Integrated Ferroelectrics.
- Shatrughan Singh, K. S. Srikanth & Bhim Singh "Structural and dielectric properties of $BaCexTi_{1-x}O_3$ ceramics" Integrated Ferroelectrics pp 121-129, vol. 192, 2018. Integrated Ferroelectrics.



PLACEMENTS

The department wishes all of qualified students a happy career and bright future.

- Mr. Aamir Sohail, student of B.Tech ME qualified and selected as Business Development Associate in Think&Learn Pvt Ltd at salary package of 10 Lakhs.
- Mr. Amartya Mehrotra and Mr. Akshay Taneja, students of B.Tech ME qualified and selected in Mahindra First Choice Services as Graduate Trainee with salary package of 3.5 Lakhs.
- Mr. Siddhartha Bisen & Mr. Dhananjai Sindhvani, students of B.Tech. ME qualified and selected in Extramarks Education Pvt. Ltd. held on 26th April, 2019 as Business Development Associate with salary package of 4.0 Lakhs.

CHIEF EDITORIAL TEAM

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

EDITORIAL TEAM MEMBERS

Shanna Majumder, Professor, BTY Deptt
Megha Gupta, SUSET, Asstt. Professor, Civil Deptt
Nishu Singh, SUSET, Asstt. Professor, CSE Deptt
Shashank Singh, SUSET, Asstt. Professor, EEE Deptt
Anuj Kumar Sehgal, SUSET, Asstt. Professor, ME and Automobile Deptt