

SCHOOL OF ENGINEERING & TECHNOLOGY

# YANTRIKI



SHARDA  
UNIVERSITY  
*Beyond Boundaries*



NEWSLETTER

ISSUE: JULY TO DECEMBER 2022

# YANTRIKI

## SCHOOL OF ENGINEERING AND TECHNOLOGY

### Department of Mechanical Engineering

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## Vision & Mission of the Department of Mechanical Engineering

### VISION ►

To be a centre of learning for preparing professional mechanical engineers, having passion for innovation, entrepreneurship and research, to provide a sustainable solution to the needs of the society.

### MISSION ►

- M1: To offer a curriculum that prepares students with knowledge, skills and ethical values for exploring professional practices.
- M2: To train students in to global leaders through industry driven and research oriented teaching- learning pedagogy.
- M3: To groom students into competent professionals and entrepreneurs, wo are sensitive to the issues of environment, energy, and emergent needs of the society.
- M4: To equip students with necessary skills to contribute innovatively in creating knowledge through higher learning.

## Fusion 360 Training for Students

The third-year students of Department of Mechanical Engineering were given extensive training of Fusion 360 by expert from Autodesk during the summer break in the month of Jun-July. Fusion 360 is a cloud-based 3D modelling, CAD, CAM, CAE, and PCB software platform for product design and manufacturing. It includes all the tools you need to go from design to fabrication, without having to leave the tool. Completion Certificate has been issued to students.



## Students Joined for Higher Studies

Mr. Mustafa Asghar (B.Tech 2017-2021 Batch) has joined Symbiosis Centre for Management & Human Resource Development, Pune to pursue MBA in Infrastructure Development and Management.



Mr. Om Kumar Shah (B.Tech 2017-2021 Batch) has joined Macquarie University, Sydney Australia with scholarship to pursue his post-graduate studies.





## Faculty Member Achievements

Ms. Saigeeta Priyadarshini conducted a session on Carrier opportunities in Design in salwan public school, Delhi. The response of students towards Mechanical Engineering was really good and kids were passionate to know more about Mechanical Engineering.



Ms. Saigeeta Priyadarshini published an article on 'Relevance of Innovation Pedagogy in Learner-Centric Curriculum' in the quarterly magazine of Salwan Public School, Delhi.



Dr. S. Kennedy completed UGC Approved Short Term Professional Development Programme on 'Implementation of NEP2020 for University and College Teachers' held from 21-31 Dec, 2022 and obtained & A+ Grade.



### Vishwakarma Puja

The Department of Mechanical Engineering Acelebrated Vishwakarma Puja at 10 AM on 17th September 2022. To celebrate Vishwakarma Puja in a grand manner because Lord Vishwakarma is worshipped as an epitome of Engineering excellence. This auspicious occasion is celebrated in a grand manner every year in the Department of Mechanical Engineering.







## Department of Mechanical Engineering

### Industry-Academia Connect:

The Department of Mechanical Engineering and Department of Electrical Electronics and Communication Engineering (EECE) organized an Industrial visit to Frick India Limited on 18.11.2022. Mr. Mohan, Assistant Professor, EECE & Dr. Lavish K Singh, Assistant Professor, ME accompany the students during the visit.



Faculty members of Mechanical Engineering along with Electrical Electronics and Communication Engineering visited ANMOL Biscuits for industry academia collaboration.

### Events

Seminar on 600 km, 70 days on the Golden Quadrilateral-An EV awareness and outreach drive by Mr. Sushil Reddy Guinness book record & founder The Sunpedal Ride for the students of Mechanical Engineering on 7th Dec, 2022.



**SHARDA UNIVERSITY**  
Beyond Boundaries

**Sharda School of Engineering and Technology**  
in association with  
**Training and Placement Department**  
is conducting SEMINAR on

**6000 km, 70days on the Golden Quadrilateral-  
An EV awareness and outreach drive**

on  
**7th DEC WEDNESDAY**  
TIME: 11:00 AM

Venue: APJ Abdul Kalam Auditorium, 005, Block 03

**Mr. Sushil Reddy**  
Guinness book record holder and founder  
The SunPedal Ride



## Department of Mechanical Engineering

### Ph.D Viva-Voce

Final Ph.D.Viva Voce Examination of Mr.Mustafa Bellow conducted 12th Dec 2022 at 3 pm in in the Boardroom of RDC Room No.114 Block 1 in blended mode.

Open Ph. D Viva-voce Exam of Mr. Mustapha Bello Muhammad (System ID: 2016015554)

Name of the Scholar:	Mr.Mustapha Bello Muhammad (System ID: 2016015554)
Title of the thesis:	Studies On Anaerobic Digestion Of Kitchen Waste And Neem Leaves Co-Digested With Cattle Dung For Improved Biogas Production And Power Generation
Subject	Mechanical Engineering
School	Sharda School of Engineering and Technology
Supervisor:	Dr.Himanshu Payal
Co-supervisor	Dr.Ram Chandra
Examiner:	Prof. Debendra Chandra Baruah, Professor and Head of the Department of Energy, Director, Internal Quality Assurance, Centre for Distance and Online Education, Tejpur University, Napaam, Tejpur, Email id <a href="mailto:hanu@debendra@gmail.com">hanu@debendra@gmail.com</a> , Mobile No.: +91 9435508563, 6001007767
Date:	12 <sup>th</sup> December, 2022 (Monday)
Time:	3PM onwards Blended Mode <a href="https://meet.google.com/ftq-gaw-ssw">https://meet.google.com/ftq-gaw-ssw</a>
Venue	Dean Research Board Room, Sharda University, Block-1, Room No.114



### Paper Publication

- Saigeeta Priyadarshini, Aman Prakash, Sanya Gupta, Akanksha Mishra and Himanshu Payal, Fabrication and characterization of epoxy solar glass, Materials Today: Proceedings.
- BC Kandpal, N Ramdas, LK Singh and M Alam, Development and mechanical characterization of LM6/Al<sub>2</sub>O<sub>3</sub>/SiC/Graphite metal matrix composites using stir casting, Advances in Materials Processing and Technologies.
- A Sahu, RS Maurya, LK Singh and T Laha, Analyzing the Effects of Milling and Sintering Parameters on Crystalline Phase Evolution and Mechanical Properties of Al<sub>86</sub>Ni<sub>8</sub>Y<sub>6</sub> and Al<sub>86</sub>Ni<sub>6</sub>Y<sub>4</sub>. 5Co<sub>2</sub>La<sub>1.5</sub> Amorphous Ribbons, Acta Metallurgica Sinica.



## Article by Student

Unmanned Aerial Vehicle (UAV): Unmanned aerial vehicle (UAV) is remotely operated vehicle. Unmanned systems (US) were first used in the nuclear reactors to load the nuclear fuel. During world war (II) the goliath tracked mines was used by Germans which was remotely operated. The development of artificial intelligence (AI) made it possible to develop UAV's.



**Kanishak Kashyap**  
System ID: 2020506907

The conventional aircrafts and fighter jets used for military operations are very lethal for the pilots and in many cases the lost lives. The use of UAV helps in protecting precious lives. It can destroy the enemy targets very efficiently. It also provides extra space & weight which can carry more artillery. It has many technological applications for intelligence, surveillance and reconnaissance (ISR).

The swarms of UAV's can be used for gathering the geographical information of enemy. As used by US and China in the border areas. It can be used for suicidal mission where it goes and blasts itself and destroy enemy systems and vehicle and lives.

Major challenges which need to be improved are decision making capabilities. Secondly the communication systems need to be more advanced and firewalls needs to be setup to avoid hacking. The interaction between UAV and human needs to be developed for better control so that in an unconventional situation the supreme thinker- human can make decisions.

In order to dominate future wars a country needs to develop more and more unmanned system and aerial vehicle. There are many scopes in development of unmanned land vehicle and unmanned ships to dominate future warfare. Above all we need to develop our own indigenous UAV's to eliminate dependencies on other countries and too keep ourselves ahead.

## Article by Student

**Dr. Lavish K. Singh**

**SUSET, Assistant Professor, ME Department**

**Mr. Sumek Nayan Jha**

**Student, ME Department**

**Dr. Akanksha Mishra**

**SUSET, Assistant Professor, ME Department**

**Mr. Hariharan**

**Student, ME Department**



## About the Sharda University

Sharda University is a leading Educational institution based out of Greater Noida, Delhi NCR. A venture of the renowned ShardaGroup of Institutions (SGI), The University has established itself as a high quality education provider with prime focus on holistic learning and imbining competitiveabilities in students. The University is approved by UGC and prides itself in being the only multi-discipline campus in the NCR, spread over 63 acres and equipped with world class facilities. Sharda University promises to become one of the India's leading universities with an acknowledged reputation for excellence in research and teaching. With its outstanding faculty, world classteaching standards, and innovative academicprograms, Sharda intends to set a new benchmark in the Indianeducation system.

## About the Department

This has been the motto of Mechanical Engineering Department of Sharda University right since its inception. By choosing this department, one will join a dynamic community where he/she will be challenged and supported to achieve one's goals. One will learn how to take a product from initial concept, to design and manufacture. A degree in Mechanical Engineering will pitchfork the student on the path to learn about mechanical design, structures, and materials, then select specialist topics to study. Project work throughout the degree provides the opportunity to apply one's design skills to real-world problems.



Sharda University

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