



**EASWARI  
ENGINEERING COLLEGE**

An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY

**RAMAPURAM CHENNAI**

**DEPARTMENT OF**  
**MECHANICAL ENGINEERING**

**NEWS**

**LETTER**

**APRIL - JUNE 2023**

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## **VISION**

To be an acknowledged leader in imparting Mechanical Engineering education, research and be a recognized resource center for industry and society

## **MISSION**

**M1:**To make the students understand the basic and advanced Engineering concepts in the core fields of Mechanical Engineering through Under-Graduate and Post-Graduate Courses.

**M2:**To prepare the students and expose them to the basic and applied research, thus fostering creativity through recognized research centers.

**M3:**To make the students undergo training in the Industries, identify the current problems and solve them with multidisciplinary and professional approach.

**M4:**To prepare the students to integrate Engineering with business that encourages technological commercialization by inviting eminent entrepreneurs for seminars and workshops.

**M5:**To make the students do application oriented projects which identify the current problems, solving them and thus contribute to the societal needs.

**M6:**To inculcate the value of ethics, lifelong learning and widening the knowledge frontiers through long term interaction with other academia and industry.

## PROGRAM OUTCOMES (PO)

- PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6: The Engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent
- PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

## **PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

- PEO1:** Our graduates will have fundamental technical knowledge and develop core competency in diversified areas of Mechanical Engineering along with Mathematics, Science and other allied engineering subjects in a view to expand the knowledge horizon and inculcate lifelong learning.
- PEO2:** A fraction of our graduates will pursue advanced studies, research and develop products in the field of Mechanical engineering by developing partnerships with industrial and research agencies thereby serving the needs of the industry, government, society and scientific community.
- PEO3:** Our graduates will be capable of building their own career upon a solid foundation of knowledge and with a strong sense of responsibility serve their profession and society ethically.
- PEO4:** Our graduates will be prolific professionals with effective communication, leadership, teaming, problem solving, decision making skills by understanding contemporary issues and improve their overall personality for career development

## **PROGRAM SPECIFIC OUTCOMES (PSOs)**

- PSO1:** Students will be competent in design and analysis of thermal and fluid systems.
- PSO2:** Students will possess the skill to apply design concepts for mechanical structures and systems.
- PSO3:** Students will be able to design and develop industrial products using modern machines in the field of manufacturing.
- PSO4:** Students will be able to use software to solve structural, thermal, fluid and manufacturing problems.



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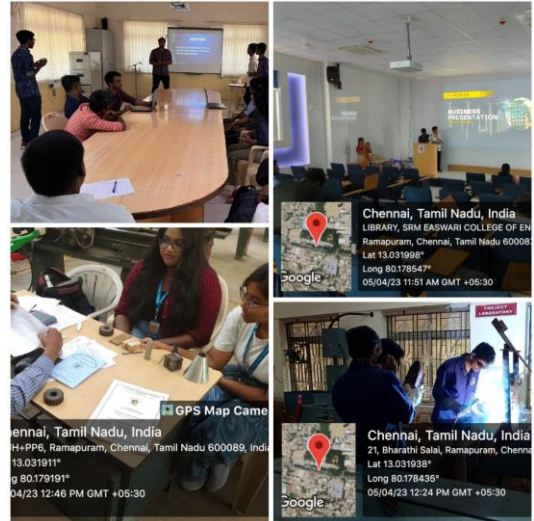
" நமது பிறப்பு  
ஒரு சம்பவமாக இருக்கலாம்  
ஆனால் இறப்பு  
சரித்திரமாக இருக்க வேண்டும் "

**LIST OF ACTIVITES CONDUCTED (APRIL TO JUNE)**

<b>SL.No</b>	<b>Date of the Activity</b>	<b>Name of the Activity</b>	<b>Resource Person</b>
1	05.04.2023	Event on “Student Competition”	SAEISS
2	07.04.2023 TO 08.04.2023	Event on “Autonomous Drone Competition”	Department Faculties & SAEISS
3	11.04.2023	Event on “Guest Lecture”	Department faculties
4	26.04.2023	Event on “Career Enhancement”	Department faculties

# SAE Student convention Tier-II competitions (Chennai division) on 05-04-2023, in association with SAEISS

- Topic** : Student Competition
- Duration** : 05-04-2023
- Time** : 08:00 AM to 4:00 PM
- Venue** : Easwari engineering college



SAE Collegiate Club of Easwari Engineering College conducted a Tier 2 Competition series, on 05/04/2023 around 8:00 am to 4:00 pm exclusively for SAE Membership students, National Level students. Students from various colleges all over India actively participated in this event. Dr Vetrivel Sezhian, HOD Mechanical welcomed the all participants and Dr. V. Antony Aroul Raj, Professor, and Mechanical briefed the scope of the event to the participants. The competition was graced by SAEISS (Chennai Division), Out of 20 competitions, 10 teams from Easwari Engineering College won First place and qualified for Tier-III competitions.

The students, who participated in this event, learnt about the necessities and pre-requisites before heading straight into our career of our choice, which involves having practical experience, proper communication skills, a problem-solving ability and the ability to manage various projects, all to be done while following a set of codes and standards.

# Event on Autonomous Drone Design Competition

**Topic** : Drone Design Competition  
**Date** : 07-04-2023 to 08-04-2023  
**Time** : 08:00 AM to 2:30 PM  
**Venue** : Easwari engineering college  
Library



SAE Collegiate Club of Easwari Engineering College conducted an online arts event “Drone Design Competition” on 07/04/2023 to 08/04/2023 from 08:00 Am to 2:30 pm exclusively SAE Members. Students from various schools all over India actively participated in this event. Dr Vetrivel Sezhan, HOD Mechanical welcomed the all participants and Dr. V .Antony Aroul Raj, Professor, Mechanical briefed the scope of the event to the participants.

More than 20 teams participated in this magnificent event and students were able to acquire new skills from them.

The students, who participated in this event, learnt about the knowledge on creating artwork based on a real-life situation and expressing their emotions in the form of colors, and was provided the right platform and an ability to showcase their skill in artwork, by representing how the environment was before and after the Covid period.



# Event on “ISTE guest lecture on Transformation in Automotive Industry”

**Topic** : Guest Lecture  
**Date** : 11-04-2023  
**Time** : 11:00 AM  
**Venue** : Easwari engineering college



Guest lecture is conducted by ISTE and Mechanical Engineering Department of Easwari Engineering College on 11th April 2023 at 11 AM for the student and faculty welfare of the Department of Mechanical Engineering. The Professor of the Mechanical department and ISTE Co-coordinator of Easwari Engineering College, Dr.S. Suyambazhahan, welcomed the chief guest and briefed the importance of the Guest Lecture. Followed by Dr. R. Ramadoss, Professor of the Mechanical department, overviewed the Mechanical department and Easwari Engineering College

The inaugural address and the guest lecture on the topic of “Transformation in Automotive Industry” are deliberated by the chief guest Dr. A. Ragothaman, Divisional Manager, Ashok Leyland, Chennai. He emphasized in the lecture various topics including performance steps: Load-Road, diverse mobility, autonomous driving and electrification. The lecture ended with a vote of thanks by Dr. K. Gopi Kannan, Assistant Professor of the Mechanical department

# Event on “Guest lecture on “Career enhancement in mechanical Engineering””

**Topic** : Career Enhancement  
**Date** : 26-04-2023  
**Time** : 02:00 PM to 03:30 PM  
**Venue** : Easwari engineering college  
 MBA HALL



Easwari Engineering College hosted a significant event focused on "Career Enhancement in Mechanical Engineering." The event aimed to provide students with valuable insights into the mechanical engineering industry, career opportunities, and the skills required to excel in this field. Mr. Partha Sarathi Banik, the esteemed Director of Hein Lehmann India Pvt Ltd, was the keynote speaker.

## Event Highlights:

The event commenced with an introduction to Mr. Partha Sarathi Banik, highlighting his accomplishments and his contributions to the mechanical engineering field. He began his speech by discussing the current landscape of the industry, emphasizing the rapid technological advancements and their implications for aspiring engineers.

Mr. Banik shared anecdotes from his professional journey, underscoring the importance of continuous learning, adaptability, and innovation. He stressed that mechanical engineering is not confined to traditional machinery but has expanded into diverse sectors such as automation, renewable energy, and sustainable design.

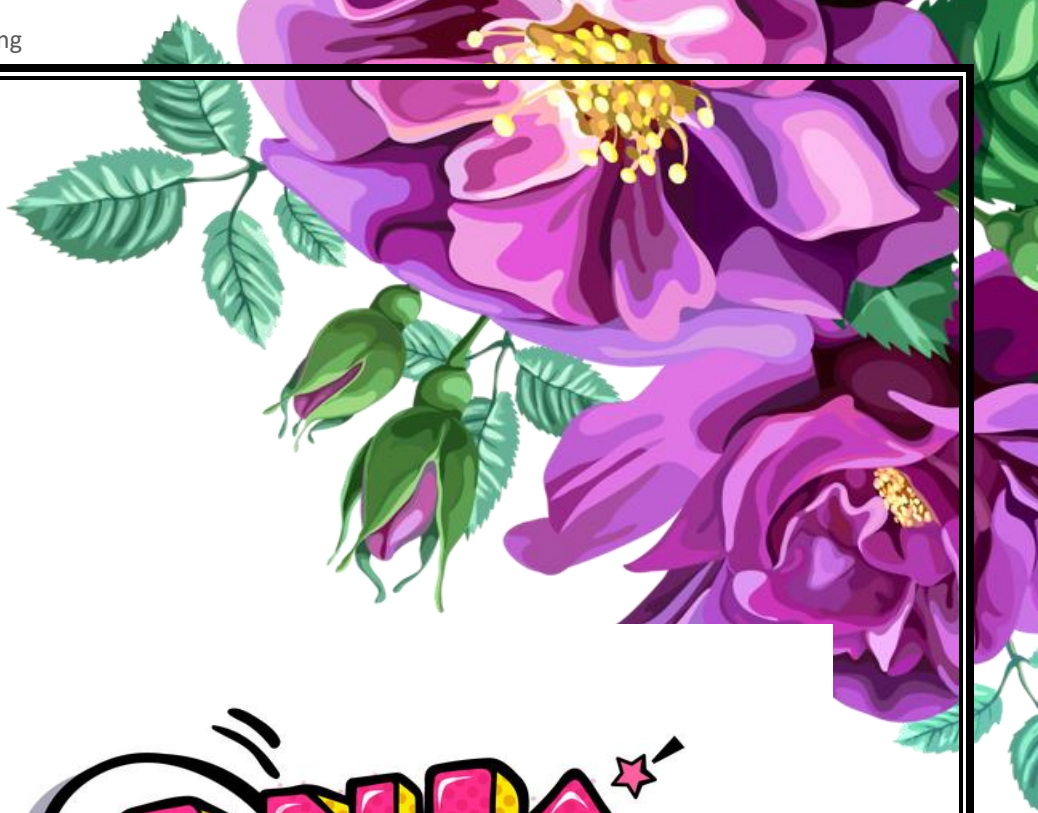
The speaker delved into the critical skills that modern mechanical engineers need to cultivate, including proficiency in computer-aided design (CAD) software, a solid grasp of data analytics, and effective communication abilities. He also underscored the significance of soft skills such as teamwork, problem-solving, and leadership, which are essential for success in any engineering career.

### **Conclusion:**

The "Career Enhancement in Mechanical Engineering" event, featuring Mr. Partha Sarathi Banik as the speaker, proved to be an enlightening experience for attendees. His insights into the evolving mechanical engineering landscape, coupled with advice on skill development and personal growth, left a lasting impression on students. The event successfully achieved its goal of inspiring and guiding the next generation of mechanical engineers towards a successful and fulfilling career path.

## Faculty Publications April – June 2023

Sl. No.	Name of the faculty	Research Paper Title	Index	Impact factor	Month & Year	Volume/ Issue/ Pg. no.	Journal Name
1	Dr. K. Giridharan Mr. Chakravarthi Gurijala	Biochar-assisted copper-steel dissimilar friction stir welding: mechanical, fatigue, and microstructure properties	SCI	4.05	April 2023	Volume 13	Biomass Conversion and Biorefinery
2	Dr. B. Elumalai	Property enhancement of 3D printed timber waste/PLA composite by surface coating	SCOPUS	NA	June 2023	Volume 6 issue 2	Multidisciplinary Science Journal



**THANK YOU**

