



**EASWARI  
ENGINEERING COLLEGE**

An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY

**RAMAPURAM CHENNAI**

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

**NEWS**

**LETTER**

**OCTOBER TO DECEMBER  
2022**

**CHEIF EDITOR:**

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PROF & HEAD MECH**

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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

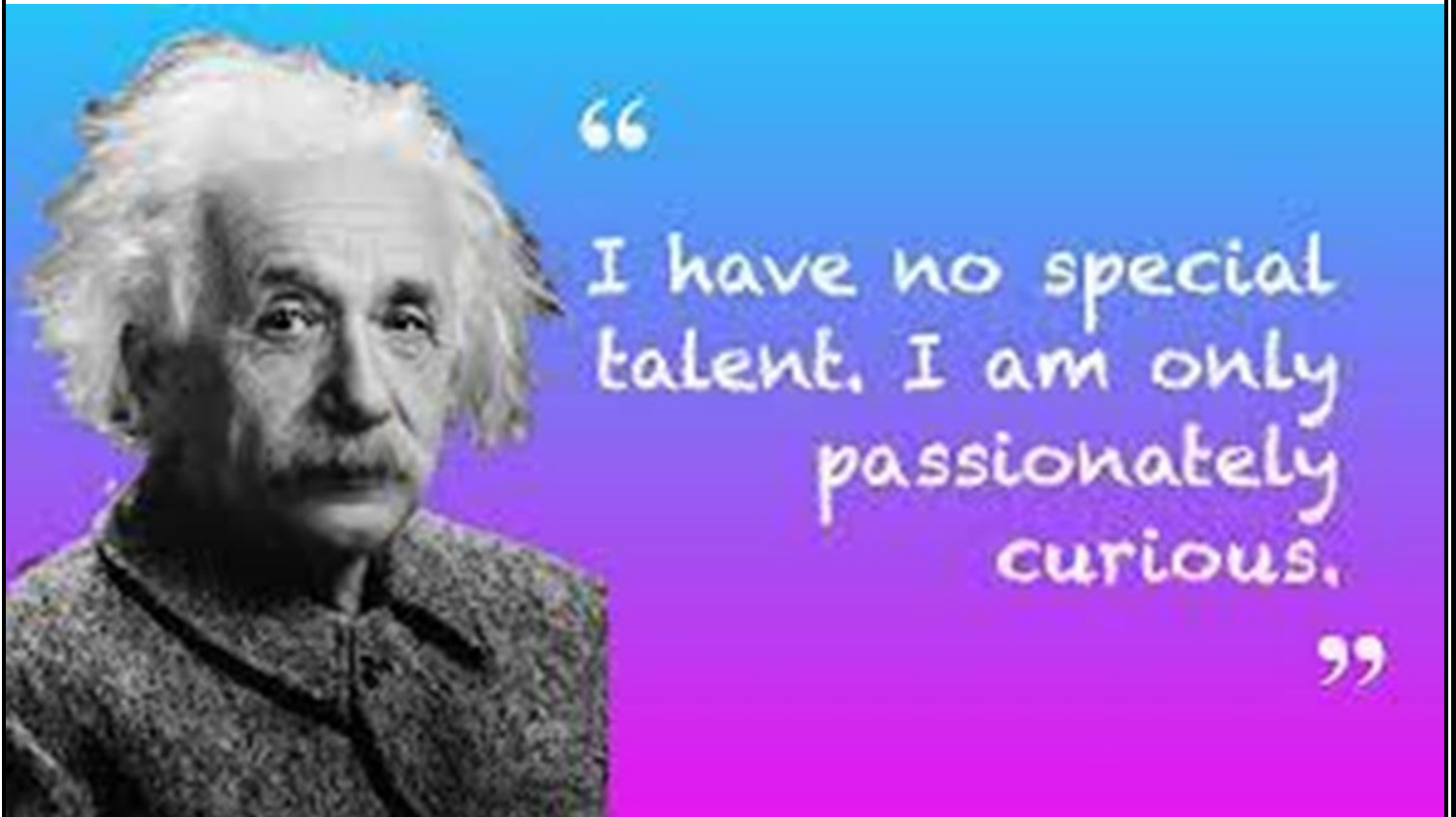
## **PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

- 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.





<b>Event No</b>	<b>Date</b>	<b>Event</b>	<b>Remarks</b>
EEC/DME/046	15.10.2022	Energy Conservation and Sustainable Building Codes for Private Stakeholders	Dr. V. Antony Aroul Raj, Professor, Department of Mechanical Engineering
EEC/DME/048	27.10.2022	SAE India Student chapter Inauguration	Mr.Sathyanarayanan Assistant Professor, Department of Mechanical Engineering
EEC/DME/050	12.11.2022	International Webinar on Higher studies opportunities in Mechanical Engineering	Alumni Speakers Ms.Vishnu Priya ramani Mr.Harri Krishna Gopinth Mr.Suraj Srivats lakkur Organized by Mr.K.Thavasilingam Assistant Professor, Department of Mechanical Engineering
EEC/DME/051	14.11.2022	MOU signing ceremony	Flow control commune private limited (FCC)
EEC/DME/052	24.11.2022	Champ fest – ISHRAE Event	Mr.J. Paulmar Pushparaj Assistant Professor, Department of Mechanical Engineering

## Energy Conservation and Sustainable Building Codes for Private Stakeholders

**EASWARI ENGINEERING COLLEGE**  
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RAMAPURAM CHENNAI

**STUDENTS ISHRAE**

**LIVE WEBINAR ON ENERGY CONSERVATION IN BUILDINGS**

**SPEAKER**  
**MR. MAHESH KUMAR M**  
GREEN BUILDING AND SUSTAINABILITY EXPERT  
DIRECTOR (TRANSGREEN SUSTAINABILITY SOLUTION)

**15<sup>th</sup> OCTOBER 2022**  
**10:00 AM - 02:00 PM**

**PLATFORM LINK** **Microsoft Teams**  
<https://bit.ly/3TtqRUt>

**CONTACT**

**FACULTY COORDINATORS**  
Dr.V.ANTONY AROULRAJ PROF/MECH  
Mr.J.THİYAGARAJAN AP/MECH

**STUDENT IN CHARGE**  
Mr. ADITYA MENON III YEAR  
MECHANICAL

ISHRAE.EEC <https://www.facebook.com/ishraec/> <https://ishrae.in/>

ISHRAE Student chapter of Easwari Engineering College conducted an online guest lecture on 15<sup>th</sup> October 2022 from 10.00 am to 12.00 am exclusively ISHRAE registered Students

Dr. V Antony Arulraj, Professor, Mechanical Engineering received leadership award for his contribution as Secretary of SAE Chennai division from Society of Automotive Engineers SAE INDIA. Mr Hariharan received award for his volunteering and engaging SAE activities. Best wishes





## **SAE COLLEGIATE CLUB INAUGURATION CEREMONY**

The Society of Automotive Engineers Collegiate Club hosted its official inauguration ceremony on the 27<sup>th</sup> of October, 2022, at the SRM Gallery Hall at 10:30 am till 12:30 pm. The inauguration was graced with the presence of the office bearers, followed by the dignitaries of the program: Our esteemed principal, Dr R.S. Kumar, the heads of departments of Automobile Engineering and Mechanical Engineering, Dr S. Sathiyamurthy and Dr M. Vetrivel Sezhian, SAE Faculty advisors from automobile and mechanical engineering, Mr C. Hariharan and Mr S. Sathyanarayanan along with the SAE Chennai division secretary, Dr V. Antony Aroul Raj. The chief guest of the inauguration was Shri. Kasiraja Thangapandian, Senior manager – engineering of the Visteon Corporation and a secretary of the SAE southern section. The coordinators for the programme are the SAE club president, Santhosh Kumar and vice president, Vishnu Prakash. B.



## International webinar on Higher studies Opportunities in Mechanical Engineering

**EASWARI ENGINEERING COLLEGE**  
An AUTONOMOUS Institution  
AFFILIATED TO SRM UNIVERSITY  
KAMARUPAM, CHENNAI

**Department of MECHANICAL ENGINEERING**

**TNEA CODE 1304**

**International webinar on Higher studies Opportunities in Mechanical Engineering**

📅 12.11.2022 | SATURDAY | 09.00 AM - 11.00 AM  
For 3<sup>rd</sup> and 4<sup>th</sup> year students

**Ms. Vishnupriya Raman**  
Graduate student  
M. Eng. Automotive engineering  
University of Michigan, Ann Arbor

**Mr. Harri Krishna Gopinath**  
Graduate student  
Industrial Engineering (Meng)  
Concordia university, Montreal, Canada

**Mr. Suraj Srivats Lakkur**  
Graduate Student  
M.Sc. Smart Systems  
Hochschule Furtwangen University, Furtwangen

Convener : **Dr. M. Vetrivel Sezhian**, Professor & Head / Mechanical

Co-ordinators : **Mr. K. Thavasilingam**, Asst. Prof. / Mech    **Mr. K. Karthikeyan**, Asst. Prof. / Mech

Co-ordinators: **Mr. D. Sakthimurugan**, Asst. Prof. / Mech    **Dr. K. Girdharan**, Asst. Prof. / Mech

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Department of Mechanical Engineering, Easwari Engineering College had conducted the *International webinar on Higher studies Opportunities in Mechanical Engineering*. The event started at 9am on 12-11-2022 with Welcome address by Dr. S.Prasanna Raj Yadav, Associate Professor, Dept. of Mechanical Engineering. The Guest Speakers expressed their experience on Higher studies. Around 60 students had eagerly participated and asked their doubts during the session. Finally Vote of Thanks had delivered by Mr.K.Thavasilingam, Asst. Prof., Dept. of Mechanical Engineering

## Guest Speaker/s With Affiliation:



Ms. Vishnupriya Ramani

Graduate student

M.Eng. Automotive engineering

University of Michigan, Ann Arbor



Mr. Harri Krishna Gopinath

Graduate student

Industrial Engineering (Meng)

Concordia university, Montreal,  
Canada

Mr. Suraj Srivats Lakkur

Graduate Student

M.Sc. Smart Systems

Hochschule Furtwangen University,  
Furtwangen





## **MOU SIGNING CEREMONY WITH FLOW CONTROL COMMUNE PRIVATE LIMITED**



On 14.11.22, a MoU has been signed by our institute with Flow Control Commune Private Limited (FCC), Chennai for Mechanical and Automobile Engineering department at 2 PM at the Principal Conference Hall. It is agreed to train the executives of FCC on Computational Fluid Dynamics. 1 or 2 students from our institute will be recruited after the CFD training. Dr Antony and Dr Hariharan will do the training to the industry



The ISHARE Student Chapter of Easwari Engineering College organized a K-12 event in Husainy High School, Ramapuram. In this event our team conducted three varieties of competitions for the diverse cluster of students:

- 6<sup>th</sup> grade - Drawing Competition
- 7<sup>th</sup> grade - Spell Bee
- 8<sup>th</sup> grade - STEM Quiz



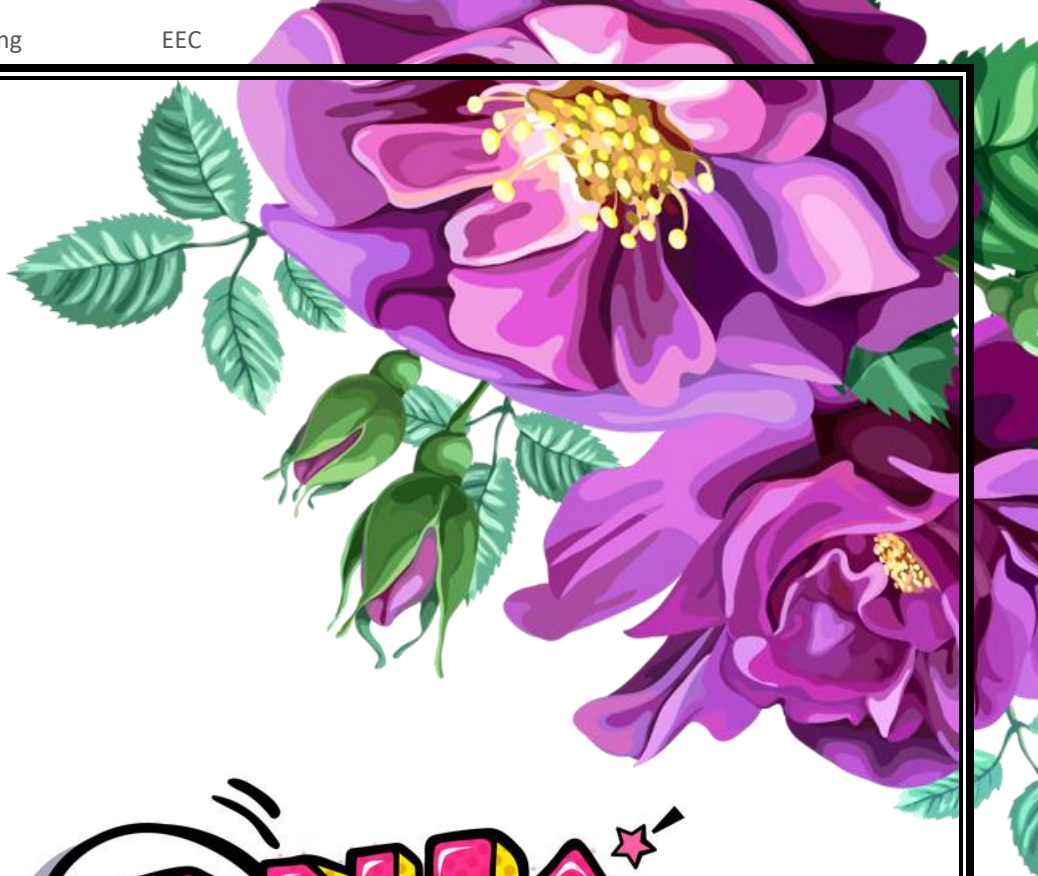
We provided the students with all the necessary tools required for the competition like, drawing kit, A4 Sheets, Eraser, etc. All the students were very excited and eagerly participated in the events. Our team scrutinized the participants and selected three of the best students for each competition in their respective grades. Winners and Runner-ups were awarded medals



## Faculty Publications October – December 2022

Sl. No.	Name of the faculty	Research Paper Title	Index	Impact factor	Month & Year	Volume/ Issue/ Pg. no.	Journal Name
1	K. Thavasilingam	Experimental assessment on the contact characteristics of 3D printed flexible poly lactic acid (PLA) soft fingertips	SCI	0.678	October 2022	Volume 113 issue 12	International Journal of Material Research
2	Dr. S. Suyambazhahan	CFD analysis of primary and secondary sodium flows and associated heat transfer on performance of an immediate heat exchanger in LMFBR	SCOPUS	NA	October 2022	Volume 15 issue 04	International Journal of Nuclear Energy Science and Technology
3	Dr. R. Ramadoss	Preparation and characterization of Amino-silanized opuntia cladode Fibre and fumed silica toughened epoxy composite	SCI	2.941	November 2022	Volume 15 issue 6	Silicon
4	K.K. Naga Chandrika	Investigation of CI Engine Performance and Emission Characteristics of Biodiesel Blend with Aluminium Oxide	SCOPUS	NA	December 2022	Volume 14 issue 04	International Journal of Vehicle Structures & Systems
5	K.R. Sureshkumar	Effects of Hybrid Nanoparticles on Thermophysical Property of Cu-TiO <sub>2</sub> Embedded Palmitic Phase Change Material for Energy Storage Applications	SCOPUS	NA	December 2022	Volume 14 issue 04	International Journal of Vehicle Structures & Systems





**THANK YOU**

