

**EASWARI  
ENGINEERING COLLEGE**

An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY

**RAMAPURAM CHENNAI**

DEPARTMENT OF  
MECHANICAL ENGINEERING

**NEWS**

**LETTER**

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**JANUARY - MARCH 2020**



## 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)

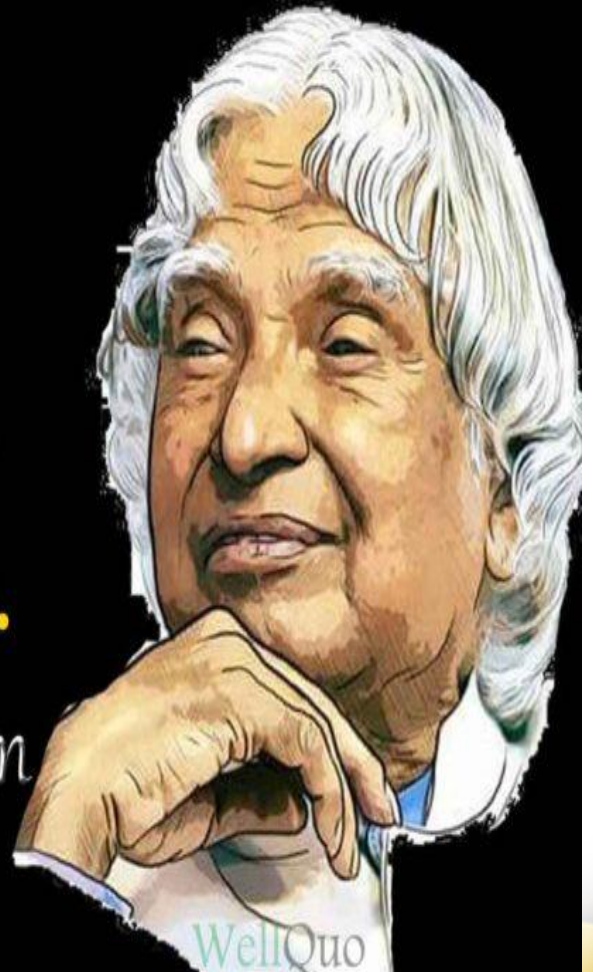
- PEO1:** Our graduates will have fundamental technical knowledge and develop core competency in diversified areas of Mechanical Engineering along with Mathematics, Science and other allied engineering subjects in a view to expand the knowledge horizon and inculcate lifelong learning.
- PEO2:** A fraction 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.

All Birds find shelter  
**during the rain.**  
But Eagle avoids rain by  
**flying above the Clouds.**

*~Abdul Kalam*



# CALENDAR OF EVENTS

## NATIONAL & INTERNATIONAL DAYS

### JANUARY

4th -10th	OIL CONSERVATION WEEK
10th -16th	ROAD SAFETY WEEK
12th	NATIONAL YOUTH DAY
15th	ARMY DAY
15th -21st	PIN CODE WEEK
23rd	NETAJI SUBHAS CHANDRA'S BIRTHDAY
	ANN./ NATIONAL DAY OF PATRIOTISM /
	DESH PREM DIVAS
25th	INDIA TOURISM DAY
26th	REPUBLIC DAY
26th	INTERNATIONAL CUSTOMS DAY
30th	MARTYRS DAY
30th	NATIONAL CLEANLINESS DAY

### FEBRUARY

24th	EXCISE DAY
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### MARCH

4th -10th	NATIONAL SAFETY WEEK
8th	INTERNATIONAL WOMEN'S DAY
12th	DANDI MARCH DAY
15th	CONSUMERS DAY
16th	IMMUNIZATION DAY
21st	WORLD FORESTRY DAY
21st	INTERNATIONAL DAY FOR THE ELIMINATION OF RACIAL DISCRIMINATION
22nd	WORLD DAY FOR WATER
23rd	MARTYRDOM DAY OF BHAGAT SINGH
23rd	WORLD METEOROLOGICAL DAY
24th	WORLD TB DAY



## EXTRA & CO- CURRICULAR ACTIVITIES FOR ACADEMIC YEAR 2020

S.NO	NAME OF THE STUDENT	YEAR	NAME OF THE EVENT	NAME OF THE INSTITUTE/ UNIVERSITY/ INDUSTRY ORGANISED	AWARD	DATE
1	Kishore Kumar	III	RC Car Racing - McAdroit'20	EEC	Participated	3.1.2020
2	Mahasantosh					
3	Sailesh.R					
4	Kishore Sakumar					
6	Sriram.G.V	III	Adzap - McAdroit'20	EEC	Participated	3.1.2020
7	Muthu Kumar.V	IV	Papiro Ceintificos - McAdroit'20	EEC	Participated	3.1.2020
8	Vignesh.V.S					
9	Ganesh.B.V					
10	Kailash.D					
11	Mohamed Faiyaz Ali	IV	Analyst - McAdroit'20	EEC	Participated	3.1.2020
12	Thamizh Thileepan					
13	Gnanaprakash.A					
14	Aravindkumar M					
15	Yuvaraj	IV	CAD Masters - McAdroit'20	EEC	Participated	3.1.2020
16	Karthik Raja.S					
17	Shanavas					



18	Vishal Murali	III	Groove It Up - McAdroit'20	EEC	Participated	3.1.2020
19	KIRUBA SHANKAR K					
20	Aravindh.S					
21	Monish Samue.R					
22	Shreenidhi Shetty					
23	Saaswath Kanna.K.V	IV	Auto Quiz - McAdroit'20	EEC	Participated	3.1.2020
24	Shreenidhi Shetty					
25	Rohan Joseph					
26	Aravindhrajn.R					
27	Aaditya Vikram	III,IV	HVAC Quiz - McAdroit'20	EEC	Participated	3.1.2020
28	Prasanna Venkatesh					
29	Karthick.T.J					
30	Vishwajith.S	IV	Seal The Deal - McAdroit'20	EEC	Participated	3.1.2020
31	Kailash.S					
32	Karthik Reddy	III,IV	Workshop - McAdroit'20	EEC	Participated	3.1.2020
33	Krishna Sivakumar					
34	Sriram.G.V					
35	Muthukumar.V					
36	Shiyam Sundar					
37	Ponsiva.V					
38	Jai Keerty	II,III,IV	Paper Presentation - ARIME 2020	EEC	Participated	6.3.2020
39	Ramkamal					
40	Karthikeyan.V.T					
41	Mithun Kanna.B					
42	Kailash D					
43	Karthik Raghunath Reddy.N.G	II,III,IV	Paper Presentation - ARIME 2020	EEC	Participated	6.3.2020
44	KUSHAAL B					
45	Joshua Stanley P					
46	Niranjan Harikumar.G.R					
47	Ravi Ganesh D					
48	Jijo Johnpaul	II,III,IV	Paper Presentation - ARIME 2020	EEC	Participated	6.3.2020
49	Ragav Thilak.G					
50	Ragupathi.K					

# **LIST OF EVENTS CONDUCTEDS FROM JAN TO MARCH**

## **LIST OF ACTIVITES**

<b>SL.No</b>	<b>Date of the Activity</b>	<b>Name of the Activity</b>	<b>Resource Person</b>
1	25-01-2020	Guest Lecture on Quality management in Industries	Mr. Sundaravasan.L, Manager-Quality Turbo Energy Private Limited, TVS Groups
2	12.03.2020 and 13.03.2020	SAE TIER 2 EVENTS	Department Faculties and SAE Officials

**STAFF ACHIVEMENTS****NPTEL SCORES****EASWARI ENGINEERING COLLEGE****DEPARTMENT OF MECHANICAL ENGINEERING****NPTEL SCORE FOR THE YEAR JAN-APRIL2020**

S.N O	NAME	TITLE	SCORE	AWARD	Column
1	DR. V. ANTONY AROUL RAJ	COMPUTATIONAL FLUID DYNAMICS FOR INCOMPRESSIBLE FLOW	90	ELITE+GOLD	JAN-20
2	DR. V. ANTONY AROUL RAJ	COMPUTATIONAL FLUID DYNAMICS	84	ELITE+SILVER	JAN-20
3	D. PRABHAKARAN	IC ENGINES & GAS TURBINES	49	COMPLETED	JAN 20
4	R.JEREMIAH	EQUIPMENT DESIGN MECHANICAL ASPECTS	66	ELITE	JAN 20
5	D.SAKTHIMURUGAN	INTRODUCTION TO OPERATIONAL RESEARCH	99	ELITE+GOLD	JAN 20

## Guest Lecture on Quality management in Industries

**Topic** : Guest Lecture

**Date** : 25-01-2020

**Time** : 3:00 PM to 4:00 PM

**Venue** : Easwari engineering college  
via Video Conference

The banner features the logos of EASWARI ENGINEERING COLLEGE and SAE INDIA COLLEGIATE CLUB at the top. Below the logos, it reads 'DEPARTMENT OF AUTOMOBILE & MECHANICAL ENGINEERING' and 'Presents Guest Lecture on Quality Management in Industries'. The central image shows a man in a suit and a woman in a yellow safety vest in a factory setting. Text on the right identifies the speaker as 'By Mr. L. Sundaravasan, Manager - Quality Turbo Energy Pvt. Ltd Tvs Groups'. At the bottom, it says 'FOR FURTHER DETAILS:' followed by 'STAFF COORDINATORS' (Mr. C. Hariharan, Assistant professor) and 'STUDENT COORDINATORS' (Mr. Kailash, 4th yr Mechanical). A QR code is located in the bottom left corner.

SAE Collegiate Club of Easwari Engineering College conducted an online guest lecture, titled “Quality Management in Industries” from 25/01/2020 around 3:00 pm to 4:00 pm exclusively for SAE Membership students, III and IV-year students. Students from various colleges all over Tamil Nadu 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. The webinar was graced by Mr. Sundaravasan.L, Manager-Quality; Turbo Energy Private Limited, TVS Groups

Mr. C. Hariharan, Assistant professor in Automobile Engineering, coordinated the event, along with the student coordinator, Mr. Kailash, from IV-year Mechanical Engineering.

The students, who participated in this event, learnt about the importance of quality in manufacturing products and the demand of high-quality goods in the foreign market, the various quality standards to be followed while manufacturing them and methodologies followed in order to assure a product’s quality.

### Faculty Publications January – March 2020

Sl. No.	Name of the faculty	Research Paper Title	Index	Impact factor	Month & Year	Volume/ Issue/ Pg. no.	Journal Name
1	Prasanna Raj Yadav S.	Impact of fuel injection pressure on the engine characteristics of CRDI engine powered by pine oil biodiesel blend	SCIE	6.609	March - 2020	Volume 264, Article number 116760	Fuel



**THANK YOU**

