

**EASWARI**  
**ENGINEERING COLLEGE**  
An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY  
**RAMAPURAM, CHENNAI**

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1<sup>st</sup> INTERNATIONAL VIRTUAL CONFERENCE  
on

**ADVANCES IN AUTOMOBILE,  
MANUFACTURING AND  
MECHANICAL ENGINEERING**

📅 **11<sup>th</sup> 2022** | **FRIDAY**  
March



**CONVENER**

**Dr. S. Sathiyamurthy**

Professor and Head

Department of Automobile Engineering

**CO-CONVENERS**

**Dr. R. Palanichamy**, Professor

**Dr. P. Sarangapani**, Assistant Professor

**CO-ORDINATORS**

**Mr. S. Saravanakumar**, Assistant Professor

**Mr. P. Gopi**, Assistant Professor

**Communication Mail:** [icaamme@gmail.com](mailto:icaamme@gmail.com)

Organized by

Department of Automobile Engineering

**Easwari Engineering College** (Autonomous)

Ramapuram, Chennai - 600089



# ABOUT THE COLLEGE

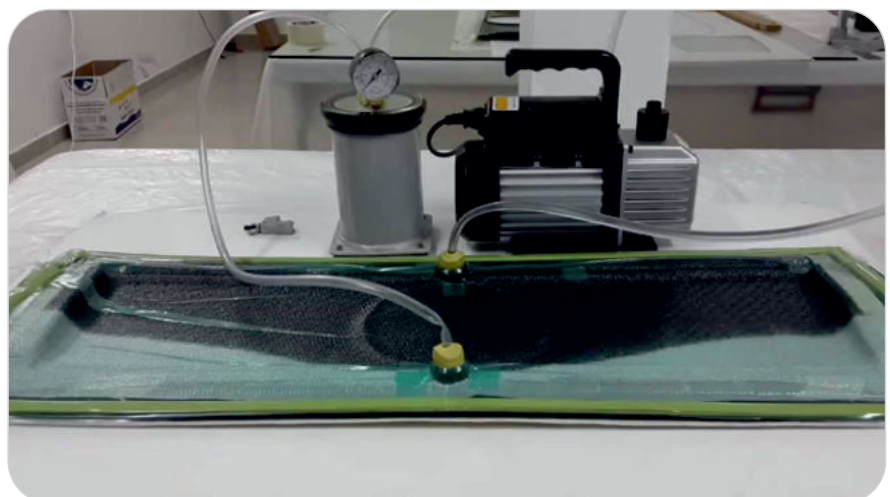
- ✦ Easwari Engineering College (EEC), a unit of SRM Group of Educational Institutions is functioning under "Valliammai Society". The society was founded by Dr. T. R. Pachamuthu in the year 1981 in order to promote Quality Education by an Academician and Educationist.
- ✦ EEC was established in the academic year 1996-1997 with the Approval of AICTE, New Delhi. The Institution is affiliated to Anna University, Chennai since 2002. College offers 11 Under Graduate Programmes and 6 Post Graduate Programmes covering Engineering, Technology and Management.
- ✦ The Institution has a strong Industry Interaction with reputed National and International Organizations. The college has obtained ISO 9001:2015 Certification from TUV South Asia. The college is accredited with 'A' Grade by NAAC.
- ✦ Training programmes are given to improve the Theoretical and Practical skills of student's right from their first year of study.
- ✦ Campus recruitments by top companies through continuous Industry Institute Interactions (III Cell). In 2016 – 2017, 1041 placement offers were made and 225 companies visited the campus. In 2017-'18, 695 students were placed and 143 companies visited the campus. Highest placement in leading IT and core companies. 1041 were placed in 2017 with highest salary package of Flipkart – 15.4 lakhs/annum, DBS Bank -15-45 lakhs/ annum

# ABOUT THE DEPARTMENT

- ✦ The Department of Automobile Engineering was started in the year 2014 with the vision to impart quality education, skills and attributes based on changing global standards and automobile industrial requirements.
- ✦ The Department of Automobile Engineering has signed MoU with Ashok Leyland Limited, Hosur Plant for One year On Job Training (OJT) for selected students as 'Engineering Intern' who are studying Final year in Automobile Engineering.
- ✦ Skill based courses in emerging areas are offered as placement training by reputed Automobile Industries.
- ✦ DST sanctioned Rs. 52.8 lakhs for Research Project.
- ✦ 14 University Ranks holders including one Gold Medal were produced in the department.
- ✦ Our Students have secured 6th place in Tractor Design Competition Organized by SAE.
- ✦ Ford India Pvt Ltd. Sponsored an Eco Sport Car for Teaching Learning Process.
- ✦ CRETA car sponsored by Hyundai Motors India Pvt Ltd, Chennai as an Initiative to Industry supported Laboratory.
- ✦ BMW India Ltd sponsored BMW engine and Transmission system for BMW "Skill next Initiative".
- ✦ Qualified and dynamic young faculty members. Quali shape up the millennials for the future. Well-equipped and state of the art laboratory facilities such as Automotive Components lab, Engine performance and emission Testing lab, Vehicle maintenance lab, Machine Shop, Automotive Design lab, Automotive Electrical and Electronics lab, Automotive fuel and lubricants lab, Computer aided drafting and simulation lab are in place. Major areas of research interest are Composite Materials, Welding, Surface Coating, Micro Machining.

# THE RESEARCH ACTIVITIES WITHIN THE DEPARTMENT INCLUDE

- ‡ Synthetic Fiber reinforced composites
- ‡ Natural Fiber reinforced composites
- ‡ Metal Matrix Composite
- ‡ Fiber Extraction
- ‡ Resin Transfer Moulding
- ‡ Vacuum Infusion
- ‡ Compression Moulding
- ‡ 5 Gas Analyzer
- ‡ Computational Fluid Dynamics
- ‡ Alternative Fuels
- ‡ Electric Vehicle
- ‡ Simulations of structure and component
- ‡ Optimization using Soft Computing Techniques
- ‡ Micromachining
- ‡ Surface coating



## ABOUT THE CONFERENCE

The flashy developments made in the various branches of science in the developing world today, has opened a new vision of science and technology. Research in the field of Automobile, contemporary materials and Manufacturing is growing at a rapid rate. Year after Year, new materials and new methods of manufacturing are being investigated and implemented in the field of Automobile and Mechanical engineering.

This conference focuses on the latest innovations in materials and its manufacturing processes. The engagement of attendees from industry and academia will accelerate the translation of research in real time. Further, this International conference aims to bring common platform for Researchers Academicians, Industrial experts and practicing Engineers to exchange the ideas and to share the knowledge and experience on the advanced development and trends in the field of Automobile, materials and its manufacturing processes.

## CALL FOR PAPERS

Technical papers are invited based on the conference topics. The authors willing to present in the conference are requested to submit the full-length paper in MS word format (.doc format), not exceeding 10 printed/typed pages in single column format, within the prescribed time limit by an email to [icaamme@gmail.com](mailto:icaamme@gmail.com). The paper received will be reviewed and scrutinized by the panel of experts. Only original & unpublished work will be accepted. Similarity index should be less than 15%.

The acceptance of the paper will be communicated to the participants by email. The paper registered for the conference must be presented by one of the registered authors in the conference through online mode. Only presented papers are considered for publication. Certificate of participation/ presentation will be issued to the registered delegates who are attending the conference.

## SUBMISSION OF PAPER

All the accepted papers will publish in the following SCOPUS Indexed Journals.

1. International Journal of Vehicle Structures and Systems.
2. Walailak Journal of Science and Technology

## IMPORTANT DATES

Last date for receiving the Abstract	: 22.01.2022
Intimation about acceptance of paper	: 05.02.2022
Submission of Full-Length Paper	: 26.02.2022

## REGISTRATION FEE

For India Authors	: Rs.500/-
For Foreign Authors	: \$10

All Authors will receive the E-Proceedings with ISBN. Registration fee includes the E-Certificate. (\*\*Separate processing fee will be charged for Journal Publication)

## REGISTRATION LINK

<https://forms.gle/hQmyPVWdR15RShHz8>

## MODE OF PRESENTATION

Online : Google meet : [meet.google.com/in-y-qwnw-gvt](https://meet.google.com/in-y-qwnw-gvt)

## PAYMENT MODE

Through online NEFT to,

Name : Easwari Engineering College  
Account Number : 117109000033361  
IFSC Code : CIUB0000517  
Bank & Branch : City Union Bank & Ramapuram, Chennai.

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**Dr. V. Subbiah Bharathi**, Director, SRM Group of Educational Institutions

**Dr. R. S. Kumar**, Principal, Easwari Engineering College (Autonomous)

## CONVENOR

**Dr. S. Sathiyamurthy**,

Professor and Head, Department of Automobile Engineering

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**Dr. P. Sarangapani**, Assistant Professor, Department of Automobile Engineering

## CO-ORDINATORS

**Mr. S. Saravanakumar**, Assistant Professor

**Mr. P. Gopi**, Assistant Professor

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**Dr. K. Swaminathan**, Assistant Professor

**Dr. U. Elaiyaran**, Assistant Professor

## ADDRESS FOR COMMUNICATION

**Dr. S. Sathiyamurthy**

Convener

**1<sup>st</sup> International Virtual Conference on “Advances in Automobile, Manufacturing and Mechanical Engineering” (ICAAMME’22)**

Department of Automobile Engineering,

Easwari Engineering College, Ramapuram-89

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