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ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai,
Accredited by National Board of Accreditation (NBA), New Delhi &
National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade

Perunduri, Erode - 638 057, Tamil Nadu, India.



INTERNATIONAL CONFERENCE

on

Advances in Manufacturing, Automation, Design and Energy Technologies

“A-MADE 2024”

02 & 03 May 2024

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Thiru S.N. Thangaraju, Secretary
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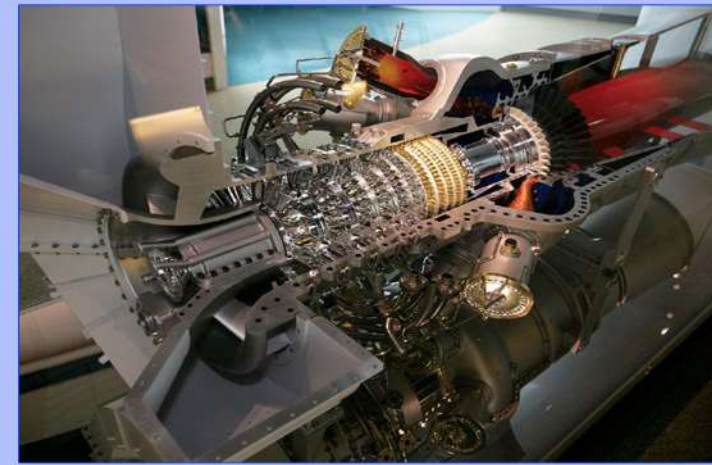
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Organized By

**DEPARTMENT OF MECHANICAL ENGINEERING
& ROBOTICS AND AUTOMATION**



ESEC at a Glance...

Erode Sengunthar Engineering College (an Autonomous Institution), Approved by AICTE, New Delhi and permanently affiliated to Anna University, Chennai. It was established in the year 1996 for the upliftment of urban and rural youth by the philanthropic visionaries of Erode Sengunthar Educational Trust. The college offers Sixteen UG programmes in Engineering and ten PG programmes. They are, B.E. in Civil Engineering, Computer Science and Engineering, Computer Science and Design, Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Mechanical Engineering, Mechanical Engineering (Tamil Medium), Bio-Medical Engineering, Agriculture Engineering, Robotics and Automation, B.Tech. Chemical, Biotechnology, Information Technology and Artificial Intelligence and Data Science Engineering and five years integrated course M.Tech Computer Science and Engineering. M.E. Environmental Engineering, M.E. Structural Engineering, M.E. Computer Science and Engineering, M. E. Industrial Safety Engineering, M.E. Manufacturing Engineering, M.E. Power Electronics and Drives, M.E. Applied Electronics, M.Tech. Chemical Engineering, M.C. A and M.B.A.

It has a full-fledged infrastructure furnished in all aspects. It is also well-connected by the bus routes from Erode (25km), Coimbatore (80 km) and Salem (80 km). The nearest airports are located at Coimbatore and Salem. All the UG courses are accredited by National Board of Accreditation (NBA). The college is accredited by NAAC "A" grade. ISO 9001:2008 certified institution.

About Departments...

The Departments of Mechanical Engineering and Robotics and Automation were established in the year of 1996 and 2020, respectively. Departments have well equipped Laboratories with State -of-the-art infrastructure facilities which includes Heat Power Lab, Dynamics Lab, Heat Transfer Lab, Advanced Manufacturing Lab, Strength of Materials lab, CAD/CAM centre and well advanced robotics analysis laboratory equipped with latest softwares in the field of Tool design & automation.

In addition to an impressive array of equipment such as 3D Printers, CNC Lathe and Milling machines, CNC Laser Cutter, CNC router, Pin On Disc apparatus, Emission analyzer, Lathe tool dynamometer, Drilling tool, and milling tool dynamometers, and IC Engines with eddy current dynamometer, our department proudly boasts a Drone Development Lab. This lab is dedicated to fostering innovation and hands-on experience in the field of unmanned aerial vehicles (UAVs).

Objective & Scope...

The objective of the conference is to bring the Researchers, Educators, Professional Engineers and technologists into a single forum in order to discuss & debate on the innovative and intelligent design of Engineering Products, Processes, and Computing systems. Further, analysis of various engineering systems and incorporation of automation in these systems will be discussed. The end of the conference there will be possible solutions and conclusions on the challenges emerging out of the theme.

Call for Papers...

Authors are invited to send the abstracts of their technical papers to be presented at the A-MADE 2024 on the below topics.

- 3D Printing and Additive manufacturing
- Advanced Manufacturing Process
- Advanced Machine Tool Technology
- Advanced Welding Process
- Composite Materials
- Modeling, Simulation and
- Optimization of Mfg Process
- Process Optimization Techniques
- Supply Chain Management
- Unconventional Machining Process
- Alternative Fuels
- Advancement in Automobile Engineering
- Analysis of Turbo Machines
- Computational Fluid Dynamics
- Design and Analysis of Thermal System
- Internal Combustion Engines
- Renewable Energy Resources
- Heat Power Engineering
- Artificial Intelligence and Applications
- CAD/CAM/CIM
- Finite Element Techniques
- Mechatronics Systems
- New Product Development and Analysis
- Nano Materials and Technology
- Robotics and Sensor Technology
- Tool and Die Design
- Simulation and Modeling Techniques

Submission of Papers

Authors are requested to submit the abstract/Full paper in MS-word format. The manuscript must be double-spaced, with one inch margins with "Times New Roman, font size 12, black".

- The Paper should be submitted as per the IEEE format.
- Paper should be non published and original work.
- Extended abstract of all accepted papers will be published in the conference proceedings with ISBN number.

Important Dates...

Abstract Submission	: 25 th March'24
Abstract acceptance	: 31 st March'24
Manuscript submission	: 20 th April'24
Registration Deadline	: 25 th April'24
Date of Conference	: 2 th & 3 th May'24

The Registration forms for authors must be submitted along with the full paper.

Registration Details

Students	: Rs. 750
Academics/ Research Scholars	: Rs. 1000
Delegates from Industries	: Rs. 2000
Delegates from Foreign	: 200 USD

All the payments should be paid by any of the online modes (NETBANKING, NEFT, IMPS, UPI). After conformation of the paper the account details will be shared through e-mail.

Publications...

All the accepted papers will be published in peer reviewed conference proceedings with ISBN number.

On demand of the authors research papers will also be published in UGC-CARE / Scopus journals depending upon quality norms and subject to applicable charges of the journals to be borne by the author(s).