



DEPARTMENT OF
**MECHANICAL AND
AUTOMATION ENGINEERING**

Organizes

NATIONAL CONFERENCE ON MULTI DISCIPLINARY ENGINEERING

(NCMDE' 25)

05.05.2025, Monday



Sri
SAI RAM
ENGINEERING COLLEGE

An Autonomous Institution
West Tambaram, Chennai - 44
www.sairam.edu.in

ABOUT THE INSTITUTION

Sri Sai Ram Engineering College, an BIS/EOMS ISO 21001:2018 certified Institution was established by Founder Chairman MJF. Ln. Leo Muthu in 1995 and all the eligible Engineering programs got accredited by National Board of Accreditation (NBA) and also accredited by NAAC with 'A+' grade. The College is situated in sylvan environment and offers sixteen UG courses and six PG courses in Engineering, Technology and Management, with a strength of 5000 plus Students. The Institution has grown and recognized among the reputed Institutions in Tamil Nadu in a short span of time with the highest degree of commitment and enthusiasm of the Staff and Management. With the motto, "Prosperity through quality education", the institution disseminates knowledge and entrepreneurship skills among the Students and strives to achieve excellence in the field of Technical, Computer and Management education. The College is one among the top Colleges in Tamil Nadu. In NIRF ranking, among engineering Colleges in India, Sri Sairam Engineering College, Chennai has been positioned in 157 th place in 2022. The College has adopted the 'Sustainable Development Goals (SDG)' in all the College activities to create awareness and build a sense of responsibility towards the society in the minds of budding engineers, to build a better world. The College has highly qualified and dedicated Professors guiding various socially relevant projects funded through state and central government agencies like DST, AICTE, DRDO, CSIR, MHRD and publishing research outputs in various national and international journals.

ABOUT THE CONFERENCE

This conference mainly provides an interdisciplinary platform for academicians, Researchers, Industrial Experts and also students to exchange their new ideas and application to establish research relations to meet the demand on National level. NCMDE'25 aims to promote cooperation in various areas and an active role in improving academic standards by implementing a wide discussion on new Materials, Manufacturing processes, Automation, Energy and Environment, Industrial Engineering, Thermal Sciences like CFD and Alternative fuels. Panel discussion will be arranged in the recent trends in Mechanical Sciences as a part of the conference. Keynote lecture will be arranged on advanced manufacturing technology, Industrial Engineering, Robotics and Thermal Sciences during conference.

ABOUT THE DEPARTMENT

The Department of Mechanical and Automation Engineering established in the year 2021. It has excellent infrastructural facilities on par with the latest development in technologies. The department has professionally experienced and highly qualified faculty and supporting staff. The Department has signed MoU with TIEMA, AIEMA, SRI KVS INDUSTRIES and many leading Industries. The Department has Professional societies-SAE, ISTE, IEI, ISHRAE, IWS, IEEE and QCFI. Our Students have bagged awards from SAE events like M-BAJA, E-BAJA, Go-Kart, E-bike & Dirt bike.

CONFERENCE TOPICS

MATERIALS & MANUFACTURING

- Sustainable Manufacturing and Design Innovations
- Advanced Materials and Manufacturing Processes
- Smart Mechanical Engineering Systems
- Additive Manufacturing and 3D Printing Technologies
- Nanotechnology Applications in Mechanical Engineering
- Materials Engineering for Extreme Environments
- Advances in Non-Destructive Testing Techniques
- Smart Cities and Infrastructure Development
- Innovations in Agricultural Machinery and Equipment
- Advances in Micro electromechanical Systems (MEMS)

DESIGN & AUTOMATION

- Robotics and Automation in Mechanical Engineering
- Innovative Approaches to Vehicle Dynamics
- Advances in Fluid Mechanics and Aerodynamics
- Emerging Trends in Robotics and Mechatronics

ENERGY AND ENVIRONMENT

- Wind and Water Turbine
- Solar Energy Power Generation
- Energy Efficiency and Renewable Energy Technologies
- Green Technologies and Environmental Sustainability
- Sustainable Energy Systems and Power Generation
- Renewable Energy Integration and Grid Management
- Sustainable Urban Development and Transportation
- Sustainable Water Management and Treatment Technologies
- Innovations in Renewable Energy Storage Systems
- Sustainable Waste Management and Recycling Solutions

CONFERENCE TOPICS

THERMAL SCIENCES

- Computational Mechanics and Simulation Techniques
- Innovations in Thermal Management Systems
- Biologically Inspired Engineering Solutions
- Computational Intelligence in Mechanical Engineering
- Innovations in Thermal Energy Storage Systems

ADVANCEMENT IN MECHANICAL ENGINEERING

- Cyber-Physical Systems in Mechanical Engineering
- Advanced Control Strategies for Mechanical Systems
- Aerospace Engineering and Innovations
- Digital Twin Technologies in Mechanical Engineering
- Human-Centered Design and Engineering
- Wearable Technologies and Human Augmentation
- Artificial Intelligence and Machine Learning in Mechanical Engineering
- Sustainable Transportation Systems and Infrastructure
- Industrial IoT and Smart Manufacturing
- Innovations in HVAC Systems and Indoor Air Quality
- Marine Engineering and Naval Architecture Innovations
- Resilient Infrastructure and Disaster Mitigation
- Sustainable Agriculture and Farming Technologies
- Advances in Composite Materials and Structures
- Cyber security Challenges in Mechanical Systems
- Smart Sensors and Sensor Networks in Mechanical Systems
- Advances in Sustainable Construction and Building Technologies
- Innovations in Sustainable Packaging and Logistics
- Human-Robot Collaboration in Industrial Settings
- Advances in Bio-inspired Robotics and Biomimetics
- Digital Transformation in Mechanical Engineering Education
- Innovations in Disaster Response and Recovery Technologies
- Advances in Microfluidics and Nanofluidics
- Innovations in Heat Exchangers and Heat Transfer Systems
- Cyber-Physical Manufacturing Systems and Industry 4.0
- Innovations in Energy Harvesting and Energy Conversion
- Sustainable Mining and Resource Extraction Technologies
- Advances in Tribology and Surface Engineering
- Innovations in Space Exploration and Aerospace Technologies

REGISTRATION FEE

Category	Fee (₹)
Govt./ Academic/ Research Institutions / Industrialists/ Students (Registration without Journal Publication)	500
Registration with Journal publication	2000

The registration fee is inclusive of :

- Conference Kit
- Conference Proceedings (soft copy)
- Attending Conference Program and all plenary, parallel sessions
- Conference certificate Journal publication (Only for delegated who opted for it)
- Conference Lunch and Refreshments

INSTRUCTIONS TO AUTHORS

Papers submitted are not be previously published in any other forum. The authors who are willing to present the paper in the conference are requested to submit the full length paper in .doc format, not exceeding 6 pages (IEEE single column format) for uploading the same in website on (or) before the proposed date. All submitted papers are scrutinized by the expert committee. The author of selected papers will be intimated through e-mail only. Presentation in the conference will be through off-line.

The abstract of the accepted papers will be published in the proceedings of the conference and the soft copy of all the accepted papers will be presented in e-proceedings as full-length paper. Papers received after the deadline may not be included in the conference proceedings. The paper registered for the conference must be presented by one of the registered authors in the conference. Certificate of participation / presentation will be issued to the registered delegates / authors attending the conference.

JOURNAL PUBLICATION

After a careful refereeing process as per the journal norms, selected papers will be recommended for publication in reputed journals.

IMPORTANT DATES

Last date for Submitting full length paper : 23.04.2025

Notification of Acceptance of

Full Length Paper : 25.04.2025

Last date for Registration : 28.04.2025

ORGANISING COMMITTEE

Chief Patron

Dr. Sai Prakash LeoMuthu

Chairman & CEO

Patron

Dr. J. Raja

Principal

Chair

Dr. A. Rajendra Prasad

Dean (Student Affairs)

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Assistant Professor

Mr. E. Vetreselvan

Assistant Professor

Dr. I. Vimal Kannan

Associate Professor

Dr. G. Ravi

Assistant Professor

Registration Link



Contact Details

The Organizing Secretary - NCMDE'25

Department of Mechanical & Automation Engineering,

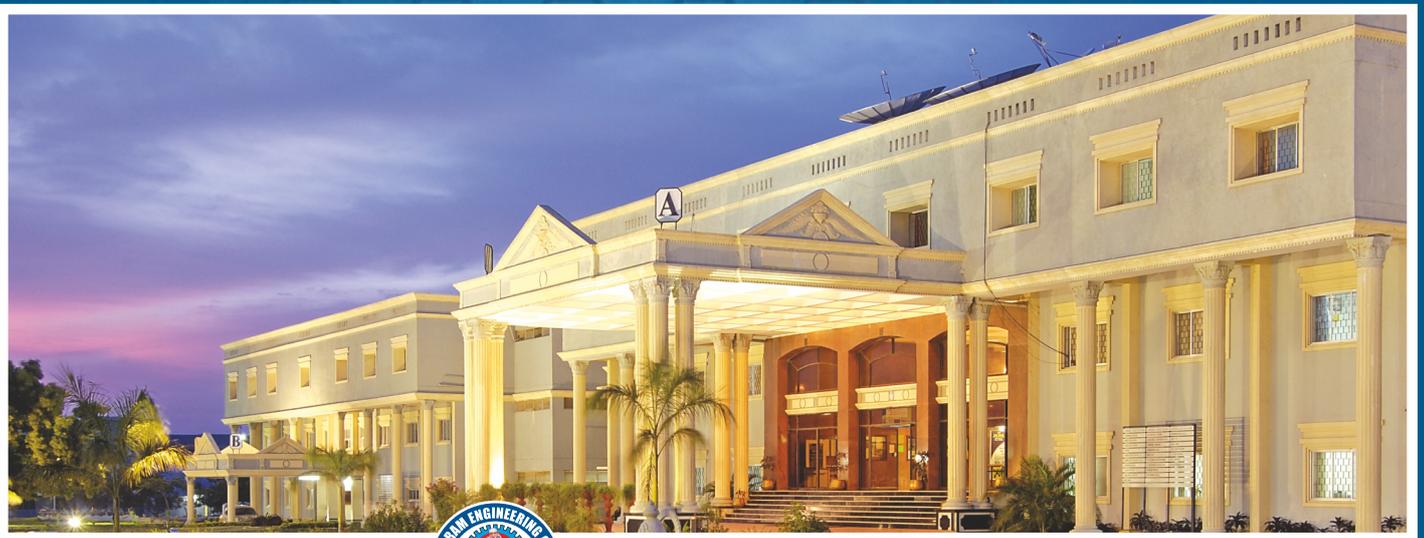
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Sri
SAIRAM
ENGINEERING COLLEGE

An Autonomous Institution

Affiliated to Anna University & Approved by AICTE, New Delhi

*Accredited by NBA and NAAC "A+"
ISO 21001 : 2018 (EOMS) Certified by BIS
and NIRF ranked institution*

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