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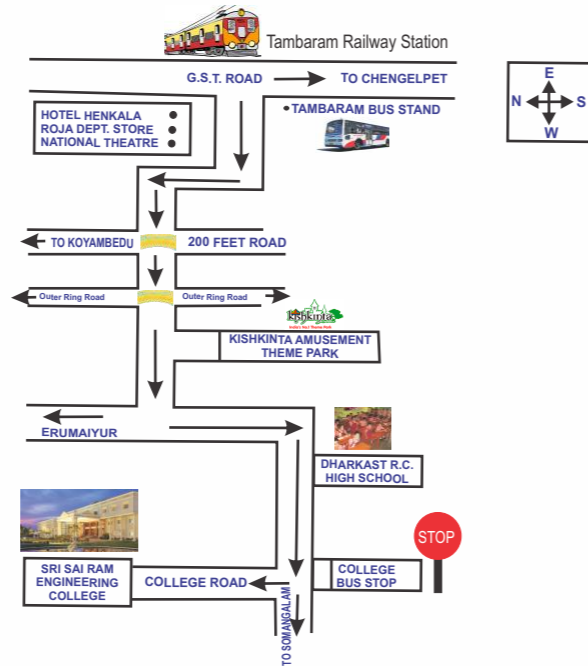
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ICAME2021

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AICTE sponsored
International Conference on
ADVANCES IN MECHANICAL ENGINEERING
(ICAME'21) - VIRTUAL MODE

27th & 28th January, 2021

Organised by

Department of Mechanical Engineering



SRI SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution
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ABOUT THE INSTITUTION

Sri Sai Ram Engineering College, an ISO 9001:2015 certified institution was established by MJF. Ln. Leo Muthu in 1995 and all our eligible Engineering programs got accredited by National Board of Accreditation (NBA) and college has been accredited by NAAC with A+ grade. The college is situated in sylvan environment and offers Under Graduate and Post Graduate programs in Engineering, Technology and Management. 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. Among engineering colleges in India, Sri Sairam Engineering College, Chennai positioned 96th place in 2017 and 101-150 Rank - band in 2018 in NIRF ranking, 123 in 2019 and 108 in 2020. The college has eleven UG courses and six PG courses with a strength of 3000 plus students, 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 DEPARTMENT

The Department of Mechanical Engineering established in the year 1995, started with intake of 60 students and it has been increased to 240 students. It has excellent infrastructural facilities on par with the latest development in technologies. The department is accredited by the National Board of Accreditation and is backed by professionally experienced and highly qualified faculty and supporting staff. The Master of Engineering (M.E) CAD /CAM program is focused to prepare graduate students in the multi-disciplinary profession on computer aided design and manufacturing for the challenges and opportunities that abound in modern technology and society. The Department has been recognized as a Research Centre by Anna University. Our faculties provide training programs for various organizations. Our students have won prizes and awards from SAE events like BAJA, e-BAJA, Effi-Cycle and Solaris, Go-Kart.

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 and International level. ICAME'21 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.

CONFERENCE TOPICS

ICAME'21 welcomes Research papers on any one of the following topics but not limited to

MATERIALS & MANUFACTURING

- Composite Materials
- Nano Composites & Materials
- Surface Coating & Engineering
- Building & Bio-materials
- Powder Metallurgy
- Multi-functional Materials
- Smart and Intelligent Materials
- Materials for High Temperature Applications
- Machine Vision Systems
- Industrial Robotics and Automation
- Precision Engineering
- Micro Machining
- Fatigue & Fracture Mechanics
- Tribology, MEMS and NEMS
- Nano / Micro Fabrication Techniques
- Manufacturing Systems and Simulation
- Product Design and Development
- Modeling and Analysis of Manufacturing Systems
- FSW / FSP/ DOE/ TAGUCHI Method
- Green, Virtual & Bio-manufacturing
- CAD / CAM / CAE / CIM / FMS / FEA
- Intelligent Manufacturing Systems
- Intelligent Process and Manufacturing Systems

DESIGN & AUTOMATION

- CAD/CAM/CAE
- Finite/Boundary Element Methods in Design Engineering
- Product Design & Development
- Testing and Evaluation of Material
- Advanced Computing in Design Engineering
- Tribology and Lubrication in Design Engineering
- Fatigue and Fracture Mechanics
- Modeling, Analysis and Simulation
- Industrial Automation & Mechatronics systems
- Artificial Intelligence
- Intelligent Robotics

ENERGY AND ENVIRONMENT

- Biomass Conversion
- Renewable Energy Systems and Sustainability
- Hydro Power
- Fuel Cell Systems, Designs and Applications
- Hydrogen Energy
- Nuclear Energy
- Electric and Hybrid Electric Vehicles
- Energy Management and Policies
- Waste Management
- Waste Water Treatment
- Global Warming
- Natural Disasters
- Natural and Built Environments
- Climate Change Issues
- Industrial Pollution
- Pollution Control Strategies, Policies and Legal Aspects
- CO₂ Sequestration
- Zero Energy Buildings
- Recycling E-Waste

THERMAL SCIENCES

- Alternative Fuels
- Internal Combustion Engines
- Heating, Ventilation and Air-Conditioning (HVAC) Systems
- Combustion, Flames and Emissions
- Heat Pipes
- CFD and its Applications
- Tribology in IC Engines
- Thermal Management
- Heat Transfer Enhancement
- Automotive Engineering
- Pressure Vessels

INDUSTRIAL ENGINEERING AND MANAGEMENT

- Supply Chain Management
- Lean / Holistic / Agile Manufacturing Systems, etc.,
- Optimization Techniques in Manufacturing
- Knowledge Management in Manufacturing
- Response Surface Methodology
- Reliability / Fuzzy Logic
- Applied Metal Forming
- ANN/ Neural Networks/ AI / Genetic Algorithm
- Image Processing / Grey Relational Analysis / DEA

INSTRUCTIONS TO AUTHORS

Papers submitted will 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 printed / typed 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 in the form of oral through online.

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 the Scopus indexed journals. (Journal names to be updated very soon)

IMPORTANT DATES

last date for submitting full length paper : 08.01.2021
Notification of acceptance of full length paper :
12.01.2021
Last date for registration : 15.01.2021

SPONSORSHIP

Industries/Organizations/ Institutions are most welcome to display their products, posters of the products and relevant to the theme of the conference. Industries/ organizations/Institutions may please contact the organizing chair for further details before the last date of registration.

REGISTRATION FEE

Category	Fee (₹)	Fee (\$)
Industry(without Journal Publication)	3,000	-
Govt./ Academic/ Research Institutions (without Journal Publication)	1,000	USD 100
Students/ Research Scholars(without Journal Publication)		USD 100
Listeners and Accompanying Persons	1,000	USD 50
Scopus Journal publication	5,000	USD 200

The registration fee is inclusive of
Abstracts of presentations as CD/Soft Copy
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