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We build a better nation through quality education.



International Conference on **Mechanical, Materials and Manufacturing Systems**

(ICMMMS'16)
24th & 25th February, 2016



Organised by



**Sri
SAI RAM ENGINEERING COLLEGE**

NBA Accredited & ISO Certified Institution

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In collaboration with



ABOUT THE INSTITUTION

Sri Sai Ram Engineering College, an NBA accredited and an ISO certified institution established by MJF.Ln. Leo Muthu in 1995. The college is situated in sylvan environment and offers Under Graduate and Post Graduate courses in Engineering, Technology, Management and Computer Applications. 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, "We build a Better Nation through Quality Education", the institution disseminates knowledge and entrepreneurship skills among the students and strives to achieve excellence in the field of Engineering, computer and management. The college is one among the top colleges in Tamil Nadu. Reputed magazine "THE WEEK" placed our institute at 29th rank among all the private institutions in the country also ranked 77th place among all the IIT's, Indian Institute of Science, NIT's and all engineering college in India. We have 9 UG courses and 9 PG courses with strength of 5000 plus students and highly qualified dedicated faculty guiding various social relevant projects funded through state and central government agency such as like DST, AICTE, DRDO, CSIR, MHRD and published various national and international journals. We have 160 licensed software and 54 e-journals. Our college conducts National level Technical Symposium, conferences and invited key note lecturers across the globe. In the academic year 2014-15 we organized Tamilnadu Inter - Engineering Sports meet "SAIRAM TIES 2015" along with inauguration of Leo Muthu indoor stadium by SACHIN TENDULKAR.

ABOUT THE DEPARTMENT

Established in the year 1995, the Department of Mechanical Engineering started with intake of 60 students, now the strength has increased to 950 students. We have excelled in its infrastructure facilities keeping pace with the latest developments in technologies. The department is accredited by the National Board of Accreditation and has professionally experienced and highly qualified faculty and supporting staff. PG course (CAD/CAM) was introduced in the year 2009.

The department is ranked as No:2 in all India level in AICTE-CII survey of industry linked technical institutions 2013. A well established department library has a rich collection of technical books ranging from basics to higher level. Besides, the department library also houses CD's and journals related to Mechanical Engineering. The department is equipped with state-of-the-art equipments and has well equipped laboratories in related fields counting. The CAM lab is equipped with sophisticated production CNC machines and a Co-ordinate Measuring Machine (CMM) and has a number of projects funded through DST, AICTE, MHRD, DRDO, and CSIR. The department has recognized R & D centre, IEDC & SAE Club. Our faculty received "BEST FACULTY AWARD", "BEST GUIDE AWARD", "ECO INNOVATIVE AWARD", "ENVIRONMENTAL AWARD". Tamil Nadu Pollution control sanctioned fund for the project in the area "FOOD WASTE MANAGEMENT in educational institutions and industries". The Department has been recognized as a centre for R&D in Anna University with effect from 2014. Our faculty provide training to 16 executive program conducted by various organization. We have a bio-gas plant with capacity of 40 m³ worth 18 lakhs.

INITIATIVES AND ACHIEVEMENTS

The department won 'Best Department award', five times out of the total 15 times for procuring highest of results percentage in the university examinations.

A special **R&D facility** on bio-fuel had been established in the department.

The department signed MoU's with leading industries such as Mahindra & Mahindra, CFCT, CWET, WETWO Engineering Pvt. Ltd, KK Precision components Pvt. Ltd, Madras Electroplaters Pvt. Ltd, and KLAS Pvt. Ltd.

AICTE, DST, ISTE, TNSCST and SERB funded many projects for the department in the areas of Automation, Design, Manufacturing, Material Science, Solar energy, bio fuels and alternative fuels etc. Various other projects based on renewable energy sources, automation and material sciences, are also carried out in the department.

SAE INDIA – COLLEGIATE club regularly organizes guest lectures, training programs and industrial visits for students and staff to keep them updated on the happenings in the industry.

OBJECTIVE OF THE CONFERENCE

The international conference mainly focuses on providing a platform for academicians, Researchers, Executives and Industry to exchange their quality ideas, methods, process, innovation and implementing materials and modern manufacturing techniques and technology to meet the demand and exchanging their new inventions and to meet the demands of the society.

The field of the recent trends includes the replacements of new materials and implementing various industries such as Process industries, Automobile industries, Marine industries, Aerospace industries, Railway industries and Construction industries for their fulfillment of their requirements with clear vision of manufacturing products with high qualities.

Further this conference aims to promote cooperation in these areas and an active role in improving academic standards and international active participation of our country by implementing a deep discussion on new materials and innovative methods of manufacturing techniques.

The researches in all fields begin to discuss some new ideas connected with mechanical, materials and manufacturing systems. In this conference the authors can focus on various topics and utilize the platform effectively and exchanging their new ideas.

INSTRUCTIONS TO AUTHORS

Papers submitted should not be previously published in other forum. The authors willing to present in the conference are requested to submit the full length paper in .doc format, not exceeding 10 printed / typed pages (IEEE single column format) by e-mail as an attachment on or before the deadline. All papers will be reviewed by the experts. The corresponding author of selected paper will be intimated through e-mail only. Presentation in the conference will be in the form of oral or posters.

The abstract of the accepted papers will be published in the proceedings of the conference and the softcopy 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 published as regular issue or special issue

Annexure I :

- 1. Advances in Mechanical Engineering
- 2. Materials Research Innovations
- 3. Council of Scientific And Industrial Research

Annexure II :

- 1. International Journal of Applied Engineering Research
- 2. Journal of Engineering and Applied Science

IMPORTANT DATES

last date for submitting full length paper : 20.01.2016

Notification of acceptance of full length paper : 30.01.2016

Last date for registration : 15.02.2016

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.

ACCOMMODATION

Accommodation shall be provided only to the outstation participants on prior request in the hotels on payment basis. **For Further details, refer website.**

REGISTRATION FEE

Category	Fee (₹)	Fee (\$)
Industry	8,000	USD 400
Govt. / Academic/ Research Institutions	7,000	USD 350
Students/ Research Scholars(without Journal Publication)	2,000	USD 300
Listeners and Accompanying Persons	1,000	USD 200

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CONFERENCE TOPICS

Mechanical stream

- Energy Engineering
- Phase Change Materials
- Thermal Storage System
- Energy Storage Systems
- CFD
- Cryogenic Systems
- Waste Heat Recovery Systems
- Alternative Fuels

Engineering Materials Stream

- Composite materials
- Nano Composites
- Nano Materials
- Surface Coating
- Building Materials
- Bio Materials
- Powder Metallurgy
- Multi functional Materials
- Smart and intelligent Materials
- Testing and Evaluation of materials
- Materials for High Temperature Applications

Manufacturing Stream

- Industrial Automation, Mechatronics Systems
- 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
- Green, Virtual & Bio Manufacturing
- Industrial Engineering and Management
- Supply Chain Management
- Lean/ Holistic/ Agile Manufacturing Systems, etc.,
- Grain Refinement Techniques
- Optimization Techniques in Manufacturing
- Knowledge Management in Manufacturing
- FSW/ FSP/ DOE/ TAGUCHI Method
- Response Surface Methodology
- Reliability / Fuzzy Logic
- Applied Metal Forming
- ANN/ Neural Networks/ AI/ Genetic Algorithm
- Image Processing/ Gray Rational Analysis/ DEA
- CAD/ CAM/ CAE/ CIM/ FMS/ FEA
- Data Mining/ Segmentation
- Intelligent Manufacturing Systems
- Intelligent Process and Manufacturing Systems
- Surface Engineering
- Recycling E-Waste