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**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119



2<sup>ND</sup> INTERNATIONAL CONFERENCE ON

Technological Advancements in Materials,  
Design, Manufacturing and Energy Sectors

**ICTAMDMS 2024**

(Hybrid Mode Conference)

21<sup>st</sup> & 22<sup>nd</sup> August 2024



Organized By

Department of Mechanical Engineering  
St. Joseph's College of Engineering  
Old Mamallapuram Road,  
Chennai, Tamil Nadu – 600119, India.  
Website: [www.stjosephs.ac.in](http://www.stjosephs.ac.in)



### About the Institution

St. Joseph's College of Engineering, established in 1994, has been serving the educational sector for the past 30 years and ranks among the top Engineering Colleges in Tamil Nadu and is affiliated to Anna University, Chennai. All the departments of our College have been accredited by the National Board of Accreditation, New Delhi and certified with A+ by NAAC. Our college is among the top educational institutions ranked by NIRF. Every year a large number of students from our college win accolades at the National and International events. They win awards for their projects and prizes in cultural and sports achievements besides securing many University Ranks. Many of our students get placements in top notch organizations besides securing admissions in world class Universities in India and abroad. The college has provided enormous support and perpetually encourages all our endeavors.

### About the Department

Our department had a very modest beginning with 40 students and 10 faculty members in 1998. Now, we have an annual intake of 180 students, and 34 faculty members are rendering their services. We also conduct a postgraduate program in manufacturing engineering. Our department has been accredited by the NBA. Our department being a research center, having 14 doctorates and state-of-the-art laboratories to support research, many research scholars across the state showed interest in pursuing their PhDs under our mentorship. Collaborative activities like consulting services, projects, internships, and workshops with industries help our department progress every day. Our students are well placed in reputable industries throughout the country and abroad. Many of the students are pursuing their higher studies in prestigious institutions in India and abroad (Singapore, Germany, Sweden, the USA, the UK, etc.).

Registration Fee		
Category	Indian Participants	International Participants
Students	INR 1000	USD 100
Faculty & Research Scholar	INR 2000	USD 150
Industry Participants	INR 3000	USD 200
Participants (Non Presenting)	INR 1000	USD 100

### About the Conference

The International Conference on "Technological Advancements in Materials, Design, Manufacturing, and Energy Sectors" (ICTAMDMES 2024) aims to provide a forum for researchers, practitioners, and professionals from industry, academia, and government professionals worldwide to present their findings featuring the latest technology trends, tools, techniques, and strategies relevant to the conference theme. The conference also serves to foster communication among researchers and practitioners working in a wide variety of scientific areas with a common interest in improving mechanical engineering. The authors are requested to submit full-length research or technical papers (no literature-based papers) related to the conference topics given below (but not limited to):

- Advanced/Nano/Functional/Smart Materials
- Polymers and composite materials
- Surface science and engineering
- Wear & tribology
- Advances in materials cutting, casting, joining & forming
- Artificial intelligence in manufacturing process
- Digital manufacturing and industry 4.0
- Corrosion
- Heat treatment of materials
- Powder metallurgy
- Process modeling and simulation
- Unconventional manufacturing & testing
- Additive manufacturing
- Energy materials / Bio-materials
- Combustion, fire and fuels
- Gas turbine and heat transfer
- Biofuels and bioenergy
- Energy storage systems
- Renewable energy conversion systems
- Environmental science and engineering
- Aerospace engineering
- Pollution and its control
- Robotics and automation
- Computational methods / tools in mechanical systems
- Optimization techniques
- Machine design and allied mechanical engineering areas

### Publications

All the accepted papers will be reviewed and published in SCOPUS or SCIE indexed journals, as per the journal guidelines. Publication fee shall be paid by the participants as per the journal norms. An Overall Best Presentation Award will be given to the best paper based on scientific novelty and rigor.

### Address for Correspondence

The Convenor,  
2<sup>nd</sup> International Conference on  
"Technological Advancements in Materials, Design,  
Manufacturing and Energy Sectors",  
Department of Mechanical Engineering,  
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Conference Website:  
<https://ictamdmes2024.wixsite.com/ictamdmes>

### Important Dates

Paper submission starts : 01 – 07 – 2024  
Paper submission ends : 14 – 07 – 2024  
Review comments intimation : 30 – 07 – 2024  
Revised paper submission : 05 – 08 – 2024  
Acceptance intimation : 10 – 08 – 2024  
Registration fee payment : 14 – 08 – 2024

### Bank Account Details

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