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SRI RAMAKRISHNA ENGINEERING COLLEGE

in association with

JAWAHARLAL NEHRU ALUMINIUM
RESEARCH DEVELOPMENT AND DESIGN CENTRE



INTERNATIONAL CONFERENCE ON



MATERIALS AND PROCESSING FOR SUSTAINABLE DEVELOPMENT: EMPOWERING THE FUTURE WITH SMART TECHNOLOGIES (MPSD-EFT - 2025)

28 - 29 NOVEMBER, 2025

Jointly Organized by

DEPARTMENT OF

Mechanical Engineering | Aeronautical Engineering

Robotics & Automation | Civil Engineering

SRI RAMAKRISHNA ENGINEERING COLLEGE
NGGO Colony, Vattamalaipalayam, Coimbatore, TN, India - 641 022



Conference Email: mpsd-eft-25@srec.ac.in | Website: mpsd-eft-2025.com

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ABOUT THE INSTITUTE

SRI RAMAKRISHNA ENGINEERING COLLEGE

Sri Ramakrishna Engineering College (SREC), nestled in the vibrant city of Coimbatore, stands as a beacon of excellence in engineering education. Established in 1994 under the SNR Sons Charitable Trust, with the vision of nurturing young minds and fostering a spirit of innovation, SREC has, over the years, carved a niche for itself as a premier institution producing industry-ready engineers equipped to tackle the challenges of the modern world. Accredited by NAAC with an A+ grade, the institution is built on a foundation of academic rigor, state-of-the-art infrastructure, and a commitment to holistic development. The sprawling campus, well-equipped laboratories, modern classrooms, and an extensive library provide students with the resources needed to excel in their academic pursuits.

JAWAHARLAL NEHRU ALUMINIUM RESEARCH DEVELOPMENT AND DESIGN CENTRE

Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), Nagpur, is a Central Government Autonomous Body under Ministry of Mines. This "Centre of Excellence" was set up in 1989 with a view to provide major R&D support system for the emerging modern aluminium industry in India. JNARDDC is an ISO/IEC-17025:2017 & ISO-17034:2016 NABL accredited lab and is also recognized as a scientific & industrial research organization by the Department of Scientific & Industrial Research, Ministry of Science & Technology, Government of India. It is the only institute of its kind in India pursuing the cause of R&D from bauxite to finished product under one roof.

ABOUT COIMBATORE

Coimbatore, the "Manchester of South India," blends rich heritage with innovation. Nestled by the Western Ghats, it boasts stunning landscapes, cultural treasures, and warm hospitality. Explore vibrant markets filled with handmade crafts, aromatic spices, and exquisite textiles. Discover serene hill stations like Ooty and Coonoor, perfect for a peaceful retreat. Wander through ancient temples like Marudamalai and Perur Pateeswarar, marveling at their architecture and spiritual ambiance. For nature enthusiasts, Coimbatore offers breathtaking waterfalls like Siruvani and Kovai Kutralam, lush tea estates, and wildlife sanctuaries. The city's culinary delights, from traditional South Indian dishes to contemporary global cuisines, will tantalize your taste buds. Coimbatore is also a bustling educational and technological hub, fostering innovation and entrepreneurship. Its dynamic spirit, combined with warm hospitality, ensures an unforgettable experience.

ABOUT THE CONFERENCE

International Conference on Materials and Processing for Sustainable Development: Empowering the Future with Smart Technology (MPSD-EFT 2025)

Welcome to the inaugural MPSD-EFT 2025, where innovation meets sustainability! This groundbreaking event is set to gather global experts, researchers, and professionals to address the critical challenges and opportunities in energy, environment, and emerging technologies for sustainable development.

Conference Objectives: MPSD-EFT 2025 aims to foster collaboration and knowledge exchange among leading minds in these fields. The conference will focus on:

- Sustainable Materials: Exploring advanced materials that enhance sustainability in engineering applications.
- Innovative Methods: Highlighting cutting-edge engineering methods that promote environmental responsibility.
- Technology Integration: Discussing the integration of new technologies to achieve sustainable development.

Keynote Speakers and Sessions: Participants will have the opportunity to hear from renowned experts through keynote speeches, panel discussions, and technical sessions. Topics will cover the latest research, case studies, and practical solutions for achieving sustainability goals.

Networking and Collaboration: MPSD-EFT 2025 offers a platform for networking, collaboration, and partnership building among academia, industry, and government. Attendees can engage in interactive workshops, poster presentations, and exhibitions to showcase their work and explore new avenues for collaboration.

MPSD-EFT 2025 will explore cutting-edge strategies and technologies for sustainable development across various sectors, focusing on innovative materials, eco-friendly methods, and integrated solutions for a greener future. Call for papers will not be limited to the themes given below.

Mechanical Engineering

- Design of Mechanical Systems
- Advanced Materials and Manufacturing Technologies
- Smart Materials & Manufacturing
- Nanomaterials - Synthesis, Processing, Characterization and Applications
- Materials Recycling and Zero-waste technology
- Welding materials and technologies
- Alloys and Composites
- Energy system design, manufacturing and sustainability
- Automotive engineering
- Green Manufacturing
- Block Chain, IoT and AR/VR

Civil Engineering

- Mining and Extraction technologies
- Durability and Serviceability of Materials and Structure
- Structural Health Investigations
- Green and Sustainable Materials

Robotics and Automation

- Autonomous Robotics and AI
- Cobots for Industrial Automation
- Robotics for Industry 4.0
- Digital Twins
- Simulation, Modelling and Optimization in Robotics
- Robotics for Agriculture, Medical and Environment
- Machine Vision Systems
- Human-Robot Interaction and Cobots
- Emerging Technologies: Quantum Computing, Edge AI, 5G in Robots

Aerospace Engineering

- Aerodynamics and Aeroacoustics
- Aircraft design and optimization
- Propulsion systems and engine technology
- Materials and structures
- Computational Fluid Dynamics
- Reusable launch vehicles and hypersonic flight

JOURNALS FOR PUBLICATION

Selected high-quality papers presented at the conference will be invited to submit an extended version for publication in Web of Science/Scopus indexed Publications.



IMPORTANT DATES

Abstract Submission Starts	01.04.2025
Abstract Submission Closes	30.05.2025
Notification of Acceptance	01.07.2025
Full Paper Submission Closes	30.08.2025
Early-Bird Registration Closes	30.07.2025
Online Registration Starts	01.09.2025
Online Registration Closes	05.10.2025
Conference Dates	28-29 Nov 2025

CALL FOR PAPERS

REGISTRATION DETAILS

Registration Form Link: mpsd-eft-2025.com

Payment Details

Faculty and Scholars	Rs. 8,000/-
Industrialists	Rs. 12,000/-
International Delegates	\$ 150
Early-bird concession:	20% of Registration fee

Contact Details

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