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**KARPAGAM**  
COLLEGE OF ENGINEERING  
Rediscover | Refine | Redefine

Approved by AICTE and Affiliated to Anna University  
Autonomous | Accredited by NAAC with 'A+' Grade, 2<sup>nd</sup> Cycle  
Accredited by NBA (CSE, CIVIL, ECE, EEE, IT, MECH)  
(An ISO 9001:2015 and ISO 14001:2015 Certified Institution)



# NATIONAL CONFERENCE ON SUSTAINABLE MATERIALS, AUTOMOTIVE TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE (SMATAI)

21<sup>st</sup> March, 2025

Organized by  
**DEPARTMENT OF CIVIL ENGINEERING**  
and  
**DEPARTMENT OF MECHANICAL ENGINEERING**



## ABOUT THE INSTITUTION

Karpagam College of Engineering (KCE) was established in the year 2000 under the aegis of Karpagam Charity Trust by Dr. R. Vasanthakumar the Chairman and Managing Trustee. Dr. R. Vasanthakumar was a Gold Medallist in Electrical Engineering and has devoted himself to the spread of Engineering and Higher Education among the deserving and needy public. He is a great philanthropist and a shrewd entrepreneur. The Vision of the institute is to provide quality education with ample industrial exposure and teaching - learning methods best suited for all learners. KCE got its autonomy status in 2010 and for the past 24 years, the institution has excelled in terms of performance with regard to curriculum and its implications on society's welfare & Nation building. We are offering 12 UG programmes i.e. AI&DS, CIVIL, CSE, CST, CSD, CSE(CY), ECE, EEE, ETE, IT, MECH, VLSI and 2 ME Programmes namely Mechatronics, and VLSI and 2 PG programmes in MBA, MCA and Ph.D. Research programmes in CSE, IT, EEE, ECE, MECH, and Maths. The institution strongly believes in building knowledge and skills through strong industry interactions, collaboration and training through various Centres of Excellence. The institute is accredited by NAAC with A+ (II cycle) and NBA for CSE, CIVIL, EEE, ECE, IT and MECH. The institute has signed 100+ MoUs with leading manufacturing industries, service industries, research organizations and foreign universities to equip the faculty fraternity and students' community on cutting edge technology. It helps to collaborate across domains and integrate courses in cross functional ways. The campus of KCE is beautifully landscaped in a lush green stretch in the palghat pass Coimbatore, the manufacturing hub and the Manchester of South India. Our 5000+ students and 16,000+ Alumni is the cornerstone of our success.

## ABOUT THE CONFERENCE

National Conference on Sustainable Materials, Automotive Technologies and Artificial Intelligence (SMATAI) is a one-day event that brings together experts from diverse fields, including material science, automotive engineering, and artificial intelligence to discuss the challenges, opportunities, and future directions for integrating these technologies. Sustainable materials, automotive technologies, and artificial intelligence are increasingly interlinked, as advancements in each field are driving innovation and solutions to pressing global challenges. This one-day conference will feature keynote speeches and paper presentations across various domains. Through collaborative discussions and knowledge exchange, this conference aims to enhance knowledge and contribute to the development of smart, sustainable, and innovative solutions for the industry, ultimately contributing to a greener and more efficient future. SMATAI 2025 is being jointly organized by the Department of Mechanical Engineering and Department of Civil Engineering, in association with Indian Society of Technical Education, KCE chapter. SMATAI 2025 is scheduled on 21<sup>st</sup> March 2025. Accepted manuscripts will be published in SMATAI 2025 proceedings with ISBN number.

## CONFERENCE THEME

Parallel technical session will be conducted on different themes related to Sustainable Materials, Automotive Technologies and Artificial Intelligence. The below list is a general guideline for authors; however, flexibility is there for the authors and may include contributions on topics to related fields.

### MECHANICAL ENGINEERING

- Advanced Materials and Manufacturing
- AI in Mechanical Engineering
- Smart and Sustainable Intelligent Technologies
- Green and Sustainable Technologies
- Electric Vehicles
- Micro and Nano systems
- Thermal and Energy Engineering
- Robotics and Automation
- Green Computing and Networking
- Green Technologies

### CIVIL ENGINEERING

- Special Concrete
- Sustainable Materials
- Structural Health Monitoring
- AI for quality control
- Environmental Impact Assessment
- Pollution Control
- Pre-Engineered Buildings
- Smart Cities
- Smart Highways

### IMPORTANT DATES

Abstract Submission	: 21.02.2025
Notification Due	: 27.02.2025
Full paper Submission	: 10.03.2025
Registration	: 15.03.2025

### Registration fees (Per paper Max 5 Authors)

It is mandatory that at least one author of all accepted papers have to register for the conference to ensure that the paper is included in the proceedings. Registration fee covers E-Certificates for a team (maximum of five members) and SMATAI Proceedings with ISBN Number.

Category	Indian Delegates (INR / Rs.)
R&D and Industry Personnel	1500
Faculty & Research Scholars	1200
UG / PG Students	1000

REGISTRATION QR CODE



### PUBLICATION DETAILS

- All accepted papers will be published in Conference Proceeding with ISBN number.
- Accepted papers will be submitted to reputed Scopus indexed journal subject to journal scope and quality requirements with applicable charges

### SUBMISSION LINK

Papers to be submitted using the following link  
<https://forms.gle/fLUhaNE5nisXEJnPA>

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