**Stella Mary’s College of Engineering**

ACCREDITED BY NAAC AND ACCREDITED BY NBA (MECH & CSE)

DEPARTMENT OF MECHANICAL ENGINEERING

Organizes

INTERNATIONAL CONFERENCE ON

SUSTAINABLE ENGINEERING & INNOVATIVE TECHNOLOGIES

(HYBRID MODE)

*ICSEIT 2K25*

***20 & 21 MARCH, 2025***



ABOUT THE INSTITUTION

Stella Mary's College of Engineering is promoted by the Nova Educational Trust & established by the well known business entrepreneur of Kanyakumari District, Dr.Nazareth Charles (Founder and Chairman) an Engineer by profession and a great philanthropist working towards the upliftment of the poor, under privileged and the women of the society and create skilful professionals to serve the nation and industry with integrity.

It offers a nurturing environment that facilitates excellence in academics, grooming leadership skills and every feature a student needs for a successful career besides offering a cutting-edge infrastructure. Stella Mary's focuses on providing education that is organized around a set of goals (outcomes) mapping and measuring students' performance at every step by developing their knowledge and skills. The global standards set at Stella Mary's in the field of teaching and research, spur on in its relentless pursuit of excellence towards nourishing and development of innovative and entrepreneurial skills. This enabled the institution to get accredited by NAAC (National Assessment and Accreditation Council) for the institution and NBA (National Board of Accreditation) for the Departments of Mechanical Engineering and Computer Science Engineering at a very early stage within nine years of its inception.

Stella Mary's has maintained an exceptional placement record by providing its students with ample opportunities to flourish their career goals offering placements at international level too.

Sccepted papers will be considered for publication in Scopus/WoS

https: icrtetm2k3.in/

ABOUT THE CONFERENCE

The **International Conference on Sustainable Engineering & Innovative Technologies** focuses on **sustainability, engineering advancements,** and **technological innovation** to tackle global challenges. It features **keynote speeches, technical sessions,** and **workshops** to discuss cutting-edge solutions in **energy** and the **environment**. The conference fosters **collaboration** among researchers, professionals, and industry leaders. It emphasizes **interdisciplinary approaches** for sustainable development. The event serves as a global platform for **networking** and **knowledge exchange.**

VISION AND MISSION OF THE INSTITUTE

VISION OF SMCE

To be a beacon of academic excellence, empowering future innovators with technical mastery to harness technology for positive global change.

MISSION OF SMCE

* To Cultivate a vibrant learning environment where students delve into the frontiers of technical knowledge, hone their problem-solving skills, and embrace innovation to transform ideas into solutions that address global challenges.
* To bridge the gap between technical brilliance and real-world impact by forging strong industry partnerships, fostering cutting-edge research, and nurturing entrepreneurial drive in our students, empowering them to build a better future through technology.
* To ignite the spark of intellectual curiosity within every student, equip them with the tools and knowledge. To become pioneers in their chosen fields, and guide them towards ethical and responsible use of technology for the betterment of humanity.

NATIONAL SPEAKERS

**Dr. S. Mageshwari,**

**Assistant Professor,**

**Department of EEE,**

**National Institute of Technology, Trichy.**

**Dr. Prince Mary S**

Department of Computer Science and Engineering Sathyabama Institute of Technology

Chennai

INTERNATIONAL SPEAKERS

**Dr. Haiter lenin A**

Professor, WOLLO University,

Kombolcha Institute of Technology,

Ethiopia

**Dr. Jino Ramson**

Assoc. Professor

USA

INTERNATIONAL ADVISORY COMMITTEE

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Dr. Lenin Anselm, Shinas College of Technology, Oman

Dr. R. Reji Kumar, University Malaysia Pahang, Malaysia

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Dr.  Rajaravi C, Associate Professor, Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu.

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Prof. Dr. Prakash Arul Jose, J Department of Civil Engineering Paavai College of Engineering, Tamil Nadu.

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Dr.Puguzhenithi Sugumaran, Department of Electrical and Electronics Engineering, College of Engineering Guindy, Chennai.

Dr. Immanual, Department of Bio Technology, Marines Science and Technology Rajakamanagalam.

Dr. Rajakarunakaran, Department of Mechanical Engineering, Ramco Institute of Technology, Tamil Nadu.

Dr. Ilayaperumal, Department of Mechanical Engineering. Lovely University, Chandigarh, Punjab.

Dr. S.C. Vettivel, Chandigarh College of Engineering and Technology, India.

PAYMENT DETAILS

**Account Name :**

**Account No :**

**Bank :**

**IFSC Code :**

**MICR Code :**

CONTACT

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**Coordinators –ICSEIT 2K25**

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**Department of**

**e-mail:**

[**conferencemech@stellamaryscoe.edu.in**](mailto:conferencemech@stellamaryscoe.edu.in)

ORGANISING COMMITTEE

PATRONS

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Director

**Dr. R. Suresh Premil Kumar**

Principal

CHIEF PATRON

**Dr. Nazerath Charles**

Founder & Chairman

**Mrs. C.Sumitha Judeson**

Vice Chairman

**Mr.J.Carol Judeson**

Chief Executive Officer

CO-CONVENERS

Dr. F.R. Shiny Malar, Professor & Head, CSE

Dr. R.K. Madhumathi, Associate Professor & Head, Civil

Mr. T. Regin, Asistant Professor, Dept. of CivilEngg.

Mrs. Subitha, Assistant Professor, CSE

CONVENER

**Dr. F. Michael Raj**

Professor & Head

Department of Mechanical Engineering

Stella Mary’s College of Engineering

Mobile: 9042403450

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COORDINATORS

Mr. S. Ajith kumar, Assistant Professor, Mechanical Engineering, Stella Mary’s College of Engineering

Mr. I.P. Rakhesh, Assistant Professor, Mechanical Engineering, Stella Mary’s College of Engineering

INSTRUCTION TO AUTHORS

The authors willing to present papers in the conference are requested to submit the full length paper not exceeding 6 pages (**in IEEE format**) by **e-mail** as an attachment to [**conferencemech@stellamaryscoe.edu.in**](mailto:conferencemech@stellamaryscoe.edu.in)on or before the last date for submission. All the papers will be peer reviewed by the experts. Authors of the selected paper will be intimated through e-mail. The first author should incorporate the reviewers' comments and submit the camera ready paper along with the registration form. The registration fee includes Conference kit, refreshments and working lunch. Accommodation will be provided based on prior request with additional cost. **Paper template; Link**

For paper submission queries : Mr. I.P. Rakhesh, +919

CALL FOR PAPERS

Track – 1 (CSE & AIDS)

Block Chain Technology

Dependable, Reliable and Autonomic Computing

Software Engineering & Data Analytics

Machine To Machine Communication

Social Transformation

Computer Vision & Image Processing

Augmented Reality & Virtual Reality

IOT With Healthcare & Agriculture

Distributed Data Analytics

Multimedia And Multi-Structured Data

Real-World And Large-Scale Practices of Big Data

Data Engineering Applications: Healthcare, Financial Systems

Internet Infornomics: E-Learning, E-Commerce, E-Business, E-Government, E-Society

Internet Security: Biometrics, Boundary Issues, Broadband Access Technologies

Swarm Intelligence, Ant Colony Optimisation

Bioinformatics Databases, Data Visualisation

Possibility theory, Bayesian networks, hidden Markov models

Big Data and Network Security & Service Intelligence

Image processing, simulation/modeling

Big Data collection in Communication Networks

Network management contingency challenges

Telecommunications management and control of heterogeneous networks

Mobility control and mobility engineering

Communications networks security and wireless hacking

Core technologies and access technologies and networks

Mobile and Data Communication Systems

Adaptive Techniques for Increased Network Performance

Edge cloud computing

Embedded and Ubiquitous Computing

Artificial/computational intelligence

Machine Learning and Deep Learning

Feature selection, Dimension Reduction, Pattern Classification/Recognition

Expert systems, Neural Networks, Fuzzy Logic

Rough Sets, Granular Computing, Data Mining

Evolutionary Algorithms, Learning Classifiers, SVM

**Telecommunication Systems**

**Distributed Ledger Technologies and Block chain**

**Electronics, Power Electronics and EMC**

**Information Technologies and Artificial Intelligence**

Track – 2 (Mech & Civil)

Waste Management

Remote Sensing & Geotechnical

Earthquake Engineering

Bridge Engineering & Coastal Engineering

Ecological Architecture

Computational Mechanics

Green Building Materials

Environmental Engineering

Clean Production Process

Transportation Engineering

Noise and Vibration Control

Building Technology Science

Landscape Planning and Design

Traditional Construction Materials

Disaster Prevention and Mitigation

Civil and Architectural Engineering

Construction Technology & Infrastructural Development

Underground Facilities & Water Supply

Smart, Biomaterials and Renewable materials

Nano structured materials

Materials for high-temperature applications

Materials for energy storage applications

Materials for bio-medical applications

Additive Manufacturing & Functionally graded materials Super alloys

Heat Treatment of Materials & Powder Metallurgy

Thin films and coating technology Surface Engineering

Mechanical behavior of materials

Material characterization, Non-Destructive Evaluation & Failure analysis

Integrated computational materials engineering

Innovative materials processing Technologies

New and Renewable Energy

Sustainable Technologies for Energy Conversion

Energy Storage and Power Engineering

Energy Management, Policy, Economics and Sustainability

Energy Sciences & Green Materials

Environment, Air Quality and Climate Change

Sustainable Cities, Architecture and Green Buildings

Green Design, Products and Manufacturing Processes

Heating, Ventilation and Air Conditioning (HVAC)

Bio resource and Bio energy Hydrogen Energy and Hydrogen Production

Waste Management and Waste Water Treatment

Smart Grid / Smart City / Smart Mobility

**Applied and Engineering Physics**

**Renewable Energy and Green Technologies**

**Energy Efficiency and Applied Thermodynamics**

**Biofuel, Bioenergy, and Biorefinery**

**Bioplastic, Biomaterial, and Advanced Material**

**Biotechnology and Biochemical Engineering**

**Chemical Engineering Education**

**Chemical Reaction Engineering and Catalysis**

**Environmental Technology**

**Industrial Technology**

Track – 3 (EEE & ECE)

**Power System**

**Integrated Circuit**

**Nano-Photonics**

**High voltage & Insulation technology**

**Power System & Protection**

**Semiconductor Technology**

**Automatic Control System**

**Analog & Digital Circuit**

**Design & Development**

**Smart and Micro Grid**

**Microwave Technology**

**Signal and Image Processing**

**Control & Automation**

**Advanced Control Strategies In Electric Vehicle**

**Smart Grid, Micro Grid And Demand Response**

**Advanced Metering Instrumentation And Communication System**

**New Advance In Energy Storage Technologies Like Battery, Ultra Capacitors, Super Magnetic**

**Energy Storage Systems,**

**Real Time Distribution Simulation**

**Renewable Energy Sources**

**Advanced Material For Photo Voltaic Cells**

**Grid Integration Of Renewable Energy System Power Quality And Mitigation Techniques**

**FACTS, HVDC, Custom Power Devices**

**Signal Processing & Internet of Things**

**Antenna Engineering**

**Photonic Opto Electronic Structures / Devices**

**Nanophotonics**

**Consumer Electronics**

**Smart Electronics Systems**

**Low Power VLSI Circuits & Mixed Mode VLSI**

**VLSI Verification And Testing**

**Robotics And Automation**

**Next Generation Networks**

**Optical And Photonic Networks**

**Spread Spectrum Communication**

**Sensors & Networks**

**Embedded Systems**

**Communication Systems**

**Quantum Computing**

**VLSI & VHDL Design & Applications**

**Vehicular Communication Techniques**

**Optical and Electromagnetic Communication**

IMPORTANT DATES

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **National Delegates (Rs)** | | **International delegates (USD)** |
|  | **(Physical Mode)** | **(Online Mode)** |  |
| Students (UG/PG) | 1200\* | 800 | 50 |
| Research Scholars / Delegates from Academia | 1500 | 1000 | 70 |
| Delegates from Industry | **2000** | **1500** | **100** |

|  |  |
| --- | --- |
| **Process** | **Date** |
| **Submission of full paper** | 28th February, 2025 |
| **Notification of acceptance of full paper** | 5th March, 2025 |
| **Submission of camera-ready paper** | 15th March, 2025 |
| **Deadline for early bird registration** | 17th March, 2025 |

(Certificates and Lunch will be provided only to the Presented Author.

For additional certificates and Lunch token, delegates have to pay extra

Rs.200 each)

**How to reach**

**Internation Airport – Thiruvananthapuram. 60 km**

**Nearest railway station – Nagercoil Junction, 14 km**

**Google Location/ Tag**

**Zoom**

The link of the meeting will be mailed to all the participants a day prior to the conference.

**For further information**

**Email**

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