



St. Thomas College of Engineering & Technology
Vellilode, Sivapuram P.O., Mattanur, Kannur District, Kerala
Approved by AICTE New Delhi, Govt. of Kerala and Affiliated to APJ Abdul Kalam Technological University



**NATIONAL CONFERENCE
ON
RECENT
ADVANCEMENTS IN
ENGINEERING AND
TECHNOLOGY(RAET'25)
ON
21/03/2025 - 22/03/2025**



COLLEGE VISION

To be an institute of repute recognized for excellence in education, innovation and social contribution.

COLLEGE MISSION

M1: Infrastructural Relevance: Develop, maintain and manage our campus for our stakeholders.

M2: Lifelong Learning: Encourage our stakeholders to participate in lifelong learning through industry and academic interactions.

M3: Social Connect: Organize socially relevant outreach programs for the benefit of humanity.

ABOUT THE INSTITUTION

St. Thomas College of Engineering & Technology, Sivapuram, Mattannur, Kannur was established by St. Thomas Educational Society, Adoor in the year 2014 with a view to impart high quality engineering education through systematic studies and efficient training. The college has a team of eminent faculty members and a disciplined atmosphere which help to promote a holistic approach to learning. There is a right balance of cognitive, conceptual, ethical, humane and spiritual growth. The college has been established in the interior area of Malabar with a view to cater the needs of engineering education in the north-eastern of the Malabar area, especially to people who belong to the backward communities, tribal communities and immigrant communities, who are otherwise deprived of qualitative higher education in their area. Nevertheless, the college is open to all meritorious students from all over Kerala to benefit the best and disciplined Engineering education it imparts. The institution within its short span of existence plans to be a centre of excellence in engineering education by bringing out the young engineers devoted and socially committed. The college is approved by the All India council for Technical Education and affiliated to A P J Abdul Kalam Technological University.

ABOUT RAET'25

The National Conference on Recent Advancements in Engineering and Technology (RAET'25) is a prestigious event that provides a platform for researchers, academicians, industry professionals and students to exchange ideas, showcase innovative research and discuss the latest trends in engineering and technology. This conference focuses on fostering collaboration and exploring solutions to emerging challenges across diverse engineering disciplines. RAET'25 features four specialized tracks: **Computer Science and Applications**, which delves into topics like Artificial Intelligence and Machine Learning, Big Data Analytics, Cybersecurity and Blockchain, IoT and Smart Systems, Cloud Computing & Virtualization and Software Engineering Practices; **Electronics and Communication**, covering areas such as VLSI Design and Embedded Systems, Wireless Communication and 5G Technologies, IoT in Communication, Signal and Image Processing, Robotics and Automation and Biomedical Electronics; **Civil Engineering**, exploring innovations in Sustainable Construction Materials, Water and waste water treatment, Geoenvironmental Engineering, Structural Health Monitoring, Water Resource Management, Earthquake and Disaster-Resilient Structures and Advanced Transportation Systems; and **Mechanical Engineering**, which focuses on Advanced Manufacturing and Industry 4.0, Renewable Energy, Robotics and Mechatronics, Computational Fluid Dynamics, Thermal Engineering Innovations Automotive Engineering, Instrumentation Engineering and Machine design and modelling. RAET'25 aims to bridge the gap between academia and industry while promoting interdisciplinary research and knowledge sharing ultimately contributing to the advancement of engineering and technology.

COMMITTEE

Chief Patrons

Er. Jose Thomas

Chairman, STM, Kannur

Er. Rijo Thomas Jose

CEO, STM, Kannur

Patrons

Dr. Shinu Mathew John

Professor & Principal, Dept. of CSE, STM, Kannur

Dr. Anetha Mary Soman

Professor & Dean Academics, Dept. of ECE, STM, Kannur

ORGANIZING SECRETARIES

Dr. Shinu Mathew John, Principal & Professor / CSE
Dr. Amitha I C, Associate Professor / CSE
Mr. Chandrajith E, Assistant Professor / ME
Ms. Jithika M, Assistant Professor / CSE

EXECUTIVE COMMITTEE

Mr. Rahul V A, HOD / ASH
Mr. Nithin C, HOD / ECE
Mr. Shree Kiran, HOD / ME
Ms. Vijila Balakrishnan, HOD / CE

NATIONAL ADVISORY COMMITTEE

Dr. Akhil Gopalakrishnan, Post Doctoral Researcher, Karlsruhe Institute of Technology, Germany.

Dr. Nagavinothini Ravichandran, Senior Postdoctoral Researcher, Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand.

Dr. Rajesh R, Professor, Department of Computer Science, Central University of Kerala.

Dr. N. S. Sreekanth, Associate Professor, Department of Information Technology, Kannur University.

Dr. Leena A V, Principal & Professor, Department of Civil Engineering, SNGCET, Kannur, Kerala.

Dr. Jithesh K Associate Professor, UG Dean Academics, ASIET, Kalady, Ernakulam.

Dr. V. Vinod Kumar, Professor, Electronics & Communication Engineering, Govt. College of Engineering, Kannur.

Dr. B Kannan, Emeritus Professor, Department of Computer Applications, Cochin University of Science and Technology.

Dr. Bejoy Abraham, Associate Professor Department of Computer Science & Eng., College of Engineering, Muttathara, Thiruvananthapuram.

ORGANIZING COMMITTEE

Ms. Anju G, Assistant Professor / CSE
Mr. Madhu K, Assistant Professor / CSE
Mr. Jithin S, Assistant Professor / CSE
Ms. Anu C Assistant Professor / CSE
Ms. Arsha C. Dinesh, Assistant Professor / ECE
Ms. Sreetha Sreedhar K, Assistant Professor / ECE
Dr. Arun Kumar S, Associate Professor / CE
Ms. Roopa Balakrishnan, Assistant Professor / CE
Mr. Adarsh Madhu, Assistant Professor / ME
Mr. Aswin P, Assistant Professor / ME
Ms. Sujisha P P, Assistant Professor / ASH
Mr. Lipin K, Assistant Professor / ASH
Ms. Sreelakshmi Prasad, Assistant Professor / ASH
Ms. Ashwini H, Training & Placement Officer / STM
Ms. Neethu T, Librarian / STM

CALL FOR PAPER

The papers are invited but not limited to the following fields:

TRACK 1: COMPUTER SCIENCE AND APPLICATIONS

- Artificial Intelligence and Machine Learning
- Big Data Analytics
- Cybersecurity and Blockchain
- IoT and Smart Systems
- Cloud Computing and Virtualization
- Software Engineering Practices

TRACK 2: ELECTRONICS AND COMMUNICATION

- VLSI Design and Embedded Systems
- Wireless Communication and 5G Technologies
- Internet of Things (IoT) in Communication
- Signal and Image Processing
- Robotics and Automation
- Biomedical Electronics

TRACK 3: CIVIL ENGINEERING

- Sustainable Construction Materials
- Water & Waste Water Treatments
- Geoenvironmental Engineering
- Structural Health Monitoring
- Water Resource Management
- Earthquake and Disaster Resilient Structures
- Advanced Transportation Systems

TRACK 4: MECHANICAL ENGINEERING

- Advanced Manufacturing and Industry 4.0
- Renewable Energy Systems
- Robotics and Mechatronics
- Computational Fluid Dynamics
- Thermal Engineering Innovations
- Automotive Engineering
- Instrumentation Engineering
- Machine Design and Modelling

IMPORTANT DATES

Submission Deadline: 31 Jan 2025

Acceptance Notification: 07 Feb 2025

Early-Bird Registration Deadline: 14 Feb 2025

Standard Registration Deadline: 21 Feb 2025

Full Paper Submission Deadline: 28 Feb 2025

Camera Ready Submission Deadline: 28 Feb 2025

Conference Dates: 21 - 22 March 2025

REGISTRATION DETAILS

Non-Author Participant Registration

<https://forms.gle/x1ng6chxqQ6y7T9g6>

Author Registration:

<https://forms.gle/53Tr3SSEeen8gKEQ6>

For more details visit our website / e-Mail:

<https://stthomaskannur.ac.in> / raet@stthomaskannur.ac.in

Submission Guidelines: The original paper should be typed in MS Word with IEEE format. Authors can register and upload their paper using the above link.

Journal Publication: Peer reviewed and accepted papers will be published in reputed journals.

For more Details: 9074777986, 9495282881, 9526734873.

REGISTRATION FEES

CATEGORY	EARLY BIRD RATES	STANDARD RATES
INDIAN AUTHORS	1500	2000
STM COMMUNITY AUTHORS	1000	1250
INDIAN (NON-AUTHOR PARTICIPANTS)	500	750

FEE PAYMENT DETAILS

NAME OF ACCOUNT:

St. Thomas College of Engineering and Technology, Sivapuram, Mattannur, Kannur.

NAME OF BANK: CANARA BANK, MATTANNUR

ACCOUNT NUMBER: 42563070000555

IFSC CODE: CNRB0003156