



Sri
SAIRAM
ENGINEERING COLLEGE
An Autonomous Institution
West Tambaram, Chennai - 44
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Sairam
INSTITUTIONS

DEPARTMENT OF
SCIENCE AND
HUMANITIES



24th State Level Symposium **CONVERGENCE** 09.04.2025 2025

TOPICS FOR PAPER / POSTER

PHYSICS

Paper Presentation

1. Material Physics
2. Nano Devices
3. Quantum Computing
4. Biosensors/Biomaterials
5. Sustainable energy storage devices

Science Project Expo (Working model to be presented)

1. Waste to Energy
2. Renewable energy
3. Advanced climate monitoring system
4. Advances in Laser Technology
5. Smart Agriculture system

CHEMISTRY

Paper Presentation

1. Environmental applications of Chemical sensors
2. Innovative Technologies for Solid Waste Management: IoT, AI and Robotics
3. Biodegradable Plastics: From Innovation to Implementation

Working Model / Poster Presentation

1. Smart Water Quality Monitoring System using IoT and Machine Learning
2. Sustainable Agriculture Management System using Drone Technology and AI
3. Innovative Biodegradable material using Nanotechnology

MATHS

Paper Presentation

1. Introduction to Linear Algebra and Its Use in Engineering
2. The Importance of Calculus in Engineering Design
3. Matrices and Determinants: Key Concepts for Engineers
4. Differential Equations and Their Engineering Applications
5. Real-life Applications of Trigonometry in Engineering

Poster Presentation

1. Applications of Mathematics in Engineering
2. Fractals in Engineering: Understanding Complex Patterns in Nature and Design
3. Mathematics Behind Cryptography: Securing Data in the Digital Age
4. The Fibonacci Sequence in Nature and Engineering
5. Understanding the Golden ratio in Architecture and design

ENGLISH

Paper Presentation

1. **English Empowers:** Fostering responsible online citizenship and digital literacy.
2. **English Excels:** The language of global communication, unparalleled in its reach and impact.
3. **English Inspires:** Multilingualism enriched by English, fostering creativity and expression.

Teaser Making (2 mins video)

1. **English Unites:** Breaking cultural barriers and bridging communities worldwide.
2. **English Elevates:** Good English is the rhythm of poetry, the music of motion.
3. **English Dominates:** The language of visual media, reigning supreme in film, television, and digital platforms.

TAMIL

பேச்சுப் போட்டி: "உள்ளூர்தெல்லம் உயர்வுல்லல்"

கட்டுரைப் போட்டி: "தமிழரும் தொழில்நுட்ப அறிவும்"

Paper, Poster Presentation, Teaser Making and
Science Project Expo (Max. 2 Participants per Team)

Only one member should register for a team event
A student can participate in maximum of 2 events
(any one individual event and any one team event)

5 questions in Quiz (Prelims) & 1 round in Quiz (Finals)
will include மொழியாக்கம் : தமிழில் கலைச்சொல் பயன்பாடு
Quiz (Max. 2 Participants per Team)

**ATTRACTIVE
CASH
AWARDS**

Guidelines

- Participation is restricted to 1 year B.E. / B.Tech. students.
- One way fare for outstation participants
- LCD Projectors will be provided for presentation
- Merit Certificates for Winners and Participation Certificates for others in paper / poster presentation, Science Project Expo
- Merit Certificates for Winners in Quiz

Paper Submission Details

- Online Registration for all the events - 05.04.2025
- Submission of Full Manuscript for paper presentation & Abstract for Poster/Project Expo by e-mail - 06.04.2025
- Intimation of selection through e-mail - 07.04.2025
- Confirmation of participation by the selected candidates (through mail or WhatsApp) - 07.04.2025

Contact Details

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Convenor-Convergence 2025

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Online Registration



<https://tinyurl.com/Convergence-2025>

