AUTONOMOUS

St. Thomas College of Engineering & Technology

Kozhuvalloor, Chengannur, Alappuzha, Kerala

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MESSAGE FROM PRINCIPAL

Dr. Ajit Prabhu.V.

As you know, in the month of October-November every year, the Nobel Prize which is the supreme annual international awards are announced. The Nobel Prize was established by Swedish inventor Alfred Nobel and first awarded in 1901. The Prize is awarded to outstanding scientists who has made substantial and extra-ordinary contributions to humanity in six fields : Physics, Chemistry, Physiology or Medicine, Literature, Peace, and Economic Sciences. The prizes honour individuals or organizations who have made ground-breaking discoveries or contributions that have conferred the greatest benefit to humankind.

The Royal Swedish Academy of Sciences has announced to award the Nobel Prize in Physics 2025 on today the 8th October 2025, to (1) John Clarke, University of California, Berkeley, USA, (2) Michel H. Devoret, Yale University, New Haven, CT and (3) University of California, Santa Barbara, USA and (4) John M. Martinis, University of California, Santa Barbara, USA; for the discovery of macroscopic quantum mechanical tunnelling and energy quantisation in an electric circuit.

Quantum mechanics allows a particle to move straight through a barrier, using a process called tunnelling. As soon as large numbers of particles are involved, quantum mechanical effects usually become insignificant. The laureates' experiments demonstrated that quantum mechanical properties can be made concrete on a macroscopic scale. This macroscopic particle-like system is initially in a state in which current flows without any voltage. The system is trapped in this state, as if behind a barrier that it cannot cross. In the experiment the system shows its quantum character by managing to escape the zero-voltage state through tunnelling. The system's changed state is detected through the appearance of a voltage. The laureates could also demonstrate that the system behaves in the manner predicted by quantum mechanics – it is quantised, meaning that it only absorbs or emits specific amounts of energy.

"It is wonderful to be able to celebrate the way that century-old quantum mechanics continually offers new surprises. It is also enormously useful, as quantum mechanics is the foundation of all digital technology," says Olle Eriksson, Chair of the Nobel Committee for Physics. The transistors in computer microchips are one example of the established quantum technology that surrounds us. This year's Nobel Prize in Physics has provided opportunities for developing the next generation of quantum technology, including quantum cryptography, quantum computers, and quantum sensors.

More Nobel Prizes in other fields are awaited. The Nobel Prizes always paves track for future technology. We being engineers, it is our responsibility to conceive the latest trends and developments in science and think how to translate the scientific knowledge into useful technology.

-Chief Editor

VISION

To be an Institute of repute recognised for excellence in education, innovation and social contribution.

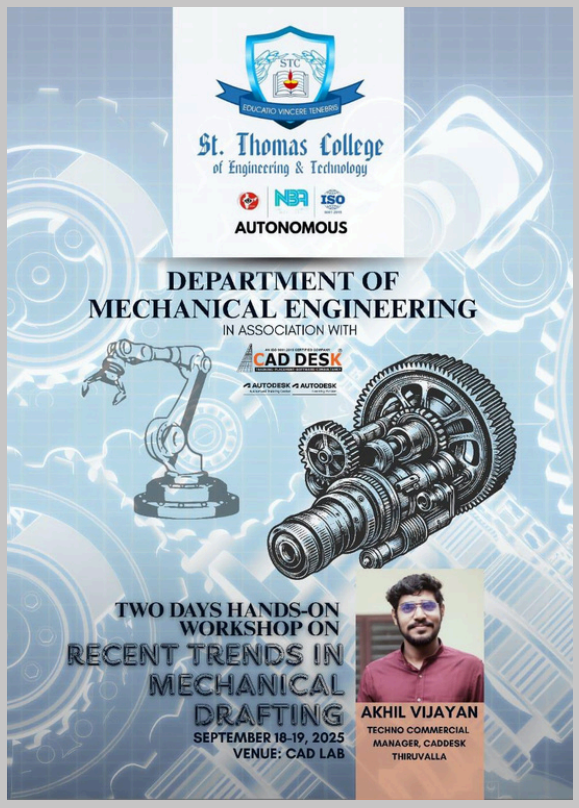
MISSION

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

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

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

WORKSHOP ON RECENT TRENDS IN MECHANICAL DRAFTING



The Department of Mechanical Engineering, St. Thomas College of Engineering & Technology, Chengannur, in association with CAD Desk, organized a two-day hands-on workshop on Recent Trends in Mechanical Drafting on September 18–19, 2025, at the CAD Lab.

The session aimed to enhance the technical knowledge of students in modern design and drafting tools used in the mechanical industry. The workshop provided participants with practical exposure to cutting-edge drafting techniques and the use of advanced CAD software, aligning with current industrial standards.

The resource person for the workshop was Mr. Akhil Vijayan, Techno Commercial Manager, CADDesk Thiruvalla. With his expertise and industrial experience, he guided the students through the latest methodologies in mechanical design, enabling them to gain valuable insights into the evolving trends in the field.

This workshop served as a significant platform for students to bridge the gap between academic learning and industrial applications, fostering innovation and technical competence among budding mechanical engineers.

TREE TAG TRAINING PROGRAME

The NSS Unit of St. Thomas College of Engineering & Technology, Chengannur organized a Tree Tag Training Program on September 20th, 2025, at the Seminar Hall. The session was led by Ms. Gopika Nair J, Senior Mentor, NRPF Kollam–Pathanamthitta Region.

Conducted as part of the "Oru Thai Nadam" initiative under the Harithakeralam Carbon Neutral Project, the program aimed to promote environmental awareness and encourage sustainable practices through tree tagging activities.

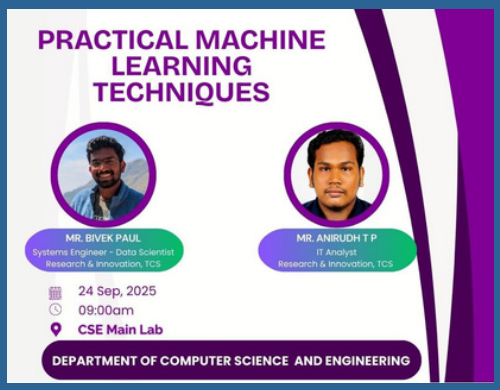
The session provided valuable insights into the importance of biodiversity conservation, carbon neutrality, and community participation in environmental protection. Students actively participated in the interactive session, gaining practical knowledge on how small individual actions can contribute to a greener and more sustainable future..

PRACTICAL MACHINE LEARNING TECHNIQUES

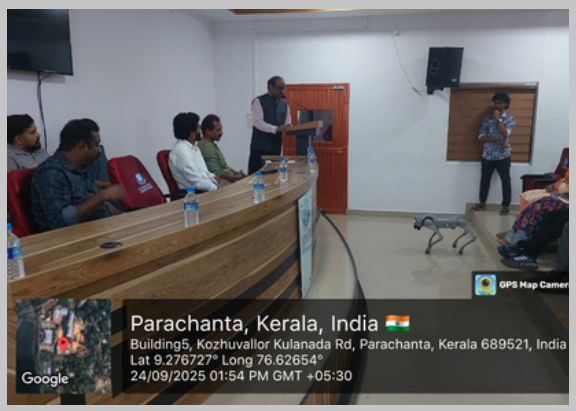
The Department of Computer Science and Engineering at St. Thomas College of Engineering & Technology, Chengannur organized a *one-day hands-on session on Practical Machine Learning Techniques on September 24, 2025, at the CSE Main Lab.

The session was led by Mr. Bivek Paul, Systems Engineer – Data Scientist, Research & Innovation, TCS, and Mr. Anirudh T P, *IT Analyst, Research & Innovation, TCS. The experts provided valuable insights into the real-world applications of machine learning and demonstrated practical approaches for implementing ML algorithms using industry-relevant tools.

The workshop offered students an opportunity to explore emerging trends in artificial intelligence, gain hands-on experience in developing ML models, and understand the challenges faced in data-driven problem solving. The interactive nature of the session encouraged active participation and enriched the learners' technical knowledge in the fast-evolving field of machine learning.



INAUGURATION OF ROBO CLUB



The Robotics Club was formally inaugurated at St. Thomas College of Engineering & Technology. The event was held on campus, in the presence of faculty, students, and invited dignitaries. The inauguration was led by Krishnanunni J S, CEO of Acutro Technologies, who was invited as the chief guest. In his keynote address, he highlighted the transformative potential of robotics and automation in industry and academia, emphasizing how student engagement in robotics can bridge the gap between theory and realworld applications

The establishment of the Robotics Club underlines the college's commitment to enhancing technical learning beyond the classroom

- Increase student enthusiasm in emerging technologies
- Improve practical skills and projectbased learning
- Enhance the institution's profile in innovation, research, and technical competitions

WORKSHOP ON ROBOTICS OPERATING SYSTEM

The STC Robotics Club, in association with the Innovation and Entrepreneurship Development Centre (IEDC), STC, successfully conducted a workshop on "Robotics Operating System (ROS)" on September 24, 2025, at the CSE Seminar Hall.

The session was handled by Dr. Divya Udayan, Associate Professor, and Prof. Nisha K S, Assistant Professor, from the School of Computing, Amrita Vishwa Vidyapeetham, Amritapuri. The workshop provided participants with valuable insights into the fundamentals of ROS, its architecture, and its applications in modern robotics. Students had the opportunity to engage in hands-on activities and interact with the experts, gaining practical knowledge on how ROS facilitates communication between robotic components.

The event received an enthusiastic response from students, enriching their understanding of robotics and motivating them to explore innovations in the field of automation and intelligent systems.

STC Tech Talk on "Innovating Water Management through Automatic Irrigation System"

The Department of Agriculture Engineering at St. Thomas College of Engineering & Technology organized the 11th session of the STC Tech Talk Series on September 26, 2025, through Google Meet. The session focused on the theme "Innovating Water Management through Automatic Irrigation System."

The keynote address was delivered by Dr. Damodhara R Mailapalli, Associate Professor, Department of Agricultural and Food Engineering, IIT Kharagpur. Dr. Mailapalli shared insightful perspectives on sustainable water management techniques and how automation and smart irrigation systems can revolutionize modern agriculture.

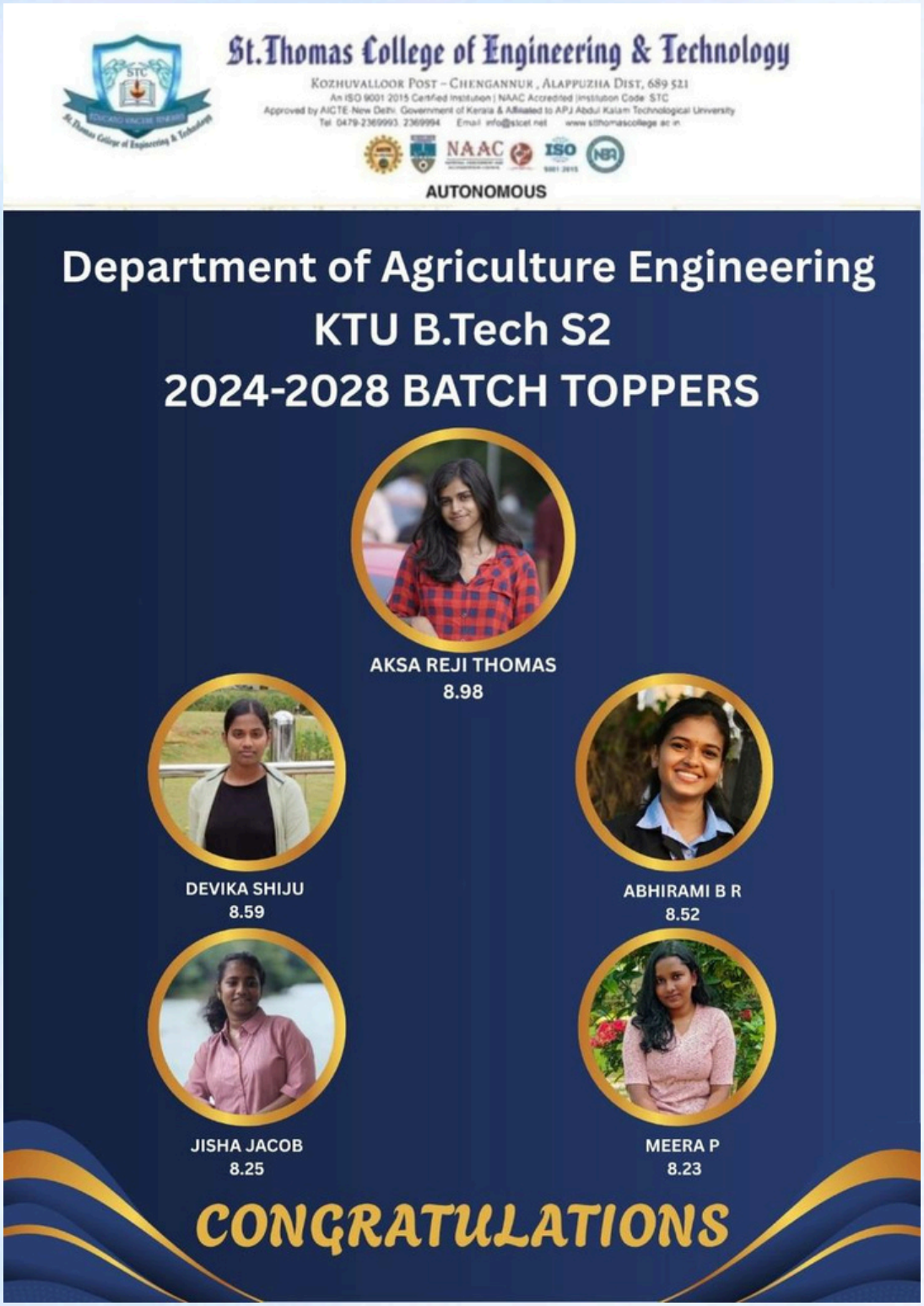
The talk provided students and faculty with a deeper understanding of integrating technology with agricultural practices to enhance water use efficiency. The session concluded with an engaging Q&A, leaving participants inspired to explore innovative solutions for sustainable farming.

S2 RESULTS PUBLISHED

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING-A

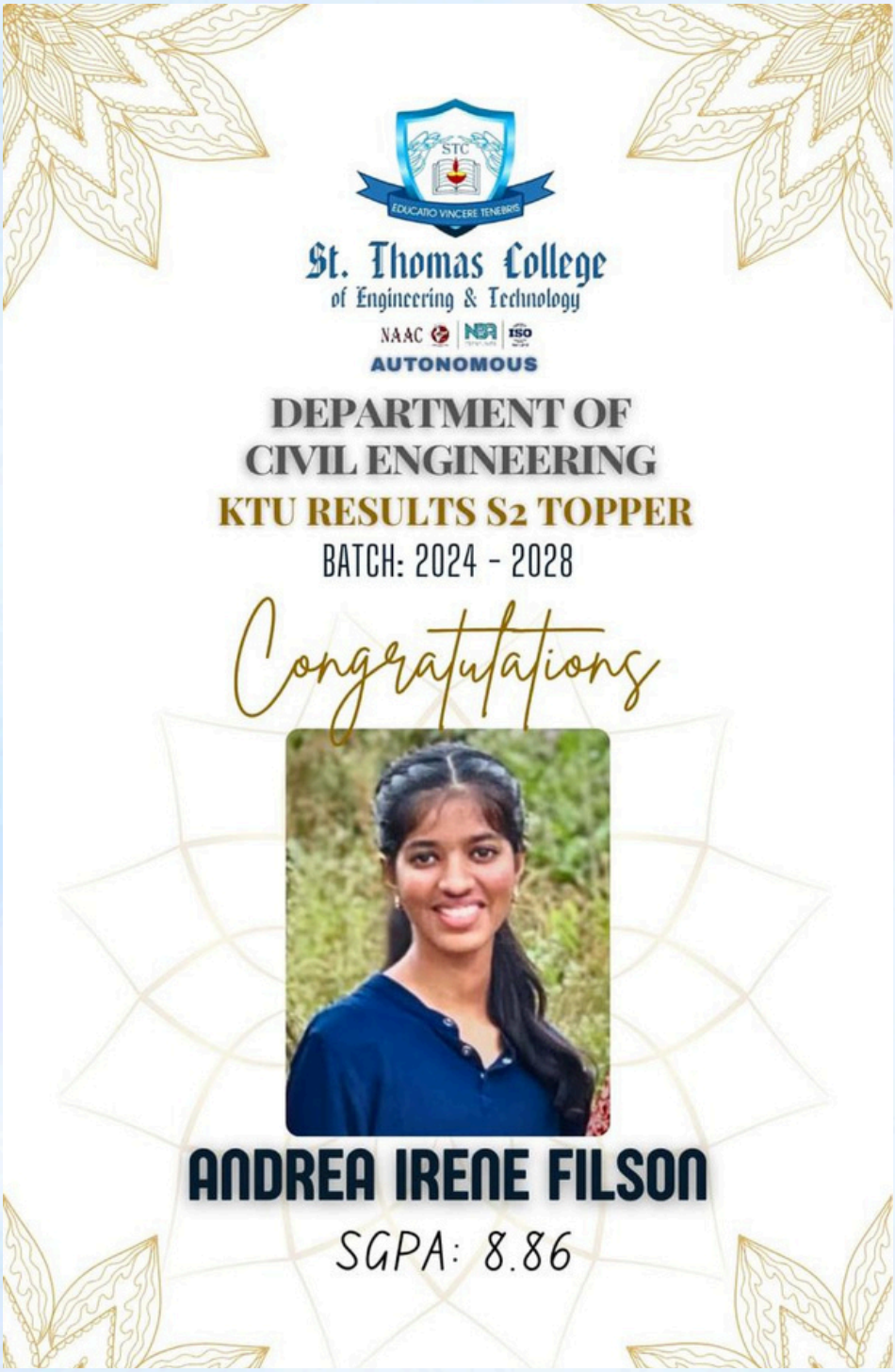
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING-B

DEPARTMENT OF AGRICULTURE ENGINEERING



DEPARTMENT OF CSE (AI &ML)

DEPARTMENT OF CIVIL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

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CAREER PLACEMENTS INFO

141 students of STC were successfully placed in renowned companies with the help of our dedicated placement cell. The placement drive is still ongoing, with more opportunities ahead.

Our Recruiters

Guidehouse, 6D Technologies, ZIGBILL, TCS, aws, MRF, mitsogo, SUTHERLAND, Tech Mahindra, FORBES MARSHALL, MOONHIVE, ENTABAY Private Limited, Spiders, UST, Poornam Info vision, THE RAMCO CEMENTS LIMITED RAMCO, AgXeo, Infosys, eLitmus, NISSI, movate, WORKCOHOL, Sukshi Academy, TALROP, Schneider Electric, POSEIDON, WHEELS INDIA LIMITED, GLOBAL QUEST TECHNOLOGIES, INKER ROBOTICS, AARBEE, STERK, UNITAC Energy Solutions (India) Pvt. Ltd., unisis engineering