



**St. Thomas College of Engineering & Technology**

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

Approved by AICTE New Delhi, Govt. Of Kerala and Affiliated to APJ Abdul Kalam Technological University

# GEEK-PRESS

Unveiling the World of Tech Wizards

**DEPARTMENT OF**  
COMPUTER SCIENCE & ENGINEERING



**Geekzone**  
COMPUTER SCIENCE AND ENGINEERING ASSOCIATION

**Volume 3 issue 3**  
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# GEEK-PRESS

UNVEILING THE WORLD OF TECH WIZARDS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VOL 3, ISSUE 3

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## VISION OF THE DEPARTMENT

To produce globally competent and socially responsible Computer Science Engineers.

## MISSION OF THE DEPARTMENT

### M1: Professional Skills

Provide students with opportunities to become industry-ready professionals and entrepreneurs through analytical learning.

### M2: Lifelong Learning

Maintain a lifelong learning attitude and stay current in their profession to foster personal and organizational development.

### M3: Engage with Society

Encourage students to focus on sustainable solutions, to improve quality of life and social welfare.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

### PEO1. Professional Practices

Apply engineering practices required for Software development, Hardware development and Embedded systems.

### PEO2. Intrapreneurial Skills

Exhibit innovation, Self – confidence and teamwork skills in the organization and society.

### PEO3. Lifelong Learning

Offer continuing education programmes in the emerging areas for the knowledge upgradation of stakeholders.

## PROGRAM SPECIFIC OUTCOMES (PSOS)

**PSO1:** Computer Science and Engineering students can analyse, design, develop, test and apply management principles, mathematical foundations in the development of computational solutions, making them experts in designing computer hardware and software.

**PSO2:** Develop their skills to solve problems in the broad area of programming concepts and appraise environmental and social issues with ethics and manage different projects in interdisciplinary fields.

# PROGRAM OUTCOMES (POS)

**Engineering Graduates will be able to:**

**PO1 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2 Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3 Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4 Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5 Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6 The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7 Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11 Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12 Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# EVENTS

## INTRODUCTION TO MACHINE LEARNING



The Department of Computer Science and Engineering organized a Hands-on Session on “Introduction to Machine Learning” on 17th March 2025 for the S6 CSE SIG students, coordinated by Ms. Anu C and Ms. Jithika M (Assistant Professors, CSE), in association with the department’s technical club, Geekzone. The session aimed to provide students with both theoretical understanding and practical exposure to the fundamentals of Machine Learning, enabling them to explore AI-based technologies and apply basic ML models in real-world scenarios.



The program covered topics such as an introduction to Machine Learning, the distinction between supervised and unsupervised learning, and a real-time demonstration using Python, which involved image dataset classification exercises. Students were also engaged through an interactive Q&A session and a mini practical task that reinforced their learning. The event received highly positive feedback, with participants appreciating the clarity and simplicity of the explanations and expressing interest in attending more advanced workshops in Machine Learning and Artificial Intelligence. Overall, the session successfully met its objective of equipping students with foundational knowledge and practical insight, inspiring them to apply ML concepts in their academic projects and future endeavors.

# EVENTS

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## **NATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN ENGINEERING AND TECHNOLOGY: RAET'25**

The National Conference on Recent Advancements in Engineering and Technology (RAET'25) was held on the 21st and 23rd of March 2025, organized by the Department of Computer Science and Engineering in collaboration with various departments of the institution. The event was led by Organizing Secretaries Dr. Shinu Mathew John (Principal & Professor, CSE), Dr. Amitha I. C (Associate Professor, CSE), Mr. Chandrajith E (Assistant Professor, ME), and Ms. Jithika M (Assistant Professor, CSE), with the support of an executive committee comprising the heads of all major departments.



The conference also featured a distinguished National Advisory Committee of eminent academicians and researchers from reputed national and international institutions, including the Karlsruhe Institute of Technology (Germany), Chulalongkorn University (Thailand), and the Central University of Kerala. The primary aim of RAET'25 was to establish a vibrant platform for researchers, academicians, and industry professionals to share knowledge, exchange ideas, and discuss innovative research findings across multiple disciplines of engineering. The program emphasized interdisciplinary collaboration, focusing on bridging the gap between academic research and industrial application, particularly in the realm of sustainable and smart technologies. The conference was organized into four specialized tracks—Computer Science and Applications, Electronics and Communication, Civil Engineering, and Mechanical Engineering—each addressing contemporary themes such as Artificial Intelligence, Big Data Analytics, 5G Technologies, Sustainable Construction, and Industry 4.0.

# EVENTS

## **NATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN ENGINEERING AND TECHNOLOGY: RAET'25**

Participants engaged in keynote sessions, technical paper presentations, and panel discussions that fostered intellectual exchange and professional networking. RAET'25 concluded on a highly successful note, achieving its objectives of promoting research excellence and innovation while inspiring students and scholars alike to contribute to the evolving landscape of engineering and technology. The event reinforced the institution's commitment to academic distinction, collaboration, and the advancement of cutting-edge research with real-world impact.



# ACHIEVEMENTS - STUDENTS

## DEPARTMENT TOPPERS (2024-25 EVEN )

### Batch:- 2021-2025

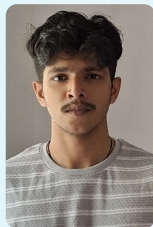


## NPTEL CERTIFICATIONS

### PYTHON FOR DATA SCIENCE



DEVATHMAJ A  
KALIYATHAN



NEVIN R PRADEEP



JAGAN K K



ASHIKA RAVEENDRAN

### DATA SCIENCE FOR ENGINEERS



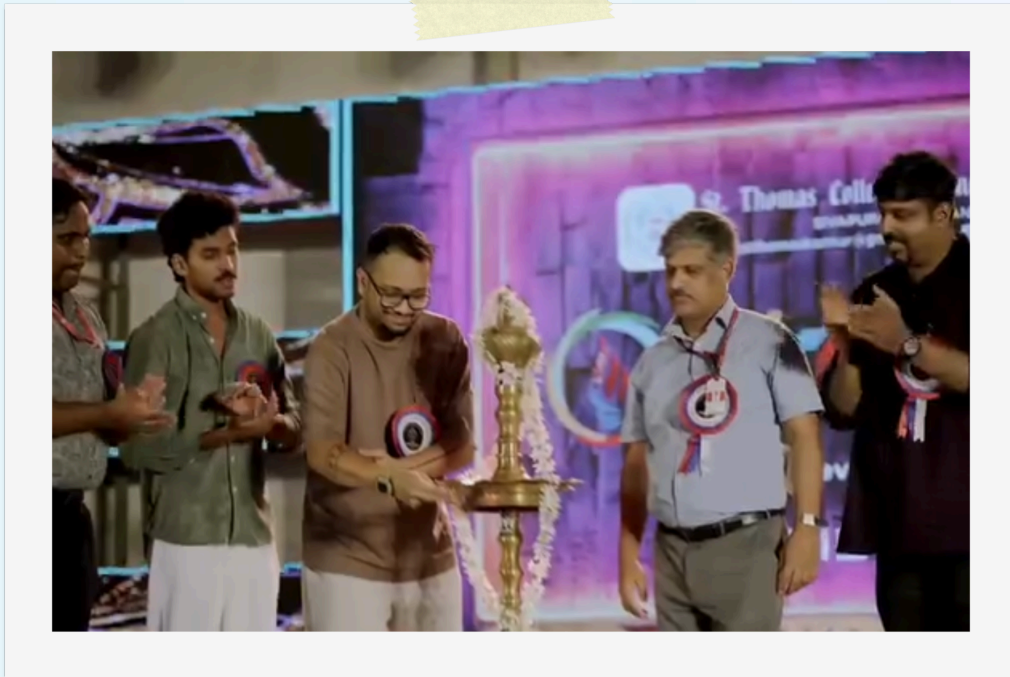
SAMANTHA SHINE  
JYOTHIRMAYI

### INTRODUCTION TO MACHINE LEARNING



SAMANTHA SHINE  
JYOTHIRMAYI

# XTASY - 2K25



# XTASY-2K25

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## EDITORIAL TEAM

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### STAFF EDITORS

Dr. Amitha I C (Associate Professor)

Ms. Anju G (Assistant Professor )

Mr. Jithin S (Assistant Professor )

Ms. Anu C (Assistant Professor)

### STUDENT EDITORS

Ms. Yashika Prasanth ( S4 CSE )

Mr. Athul K Sandeep ( S4 CSE )

Mr. Athul Raj ( S4 CSE)

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