



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

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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.

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 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

HACKFEST REGIONAL ROUND



The iTech Hackfest 2K23, a national-level hackathon regional round, was organized by the Department of Computer Science and Engineering at St. Thomas College of Engineering and Technology, Kannur, on July 25, 2023. The event was academically supported by PSG iTech and industry partners SAP and KAAR, with SAP serving as the primary sponsor. Coordinated by Ms. Vaishakhi V K, the event featured staff coordinators such as Dr. Amitha I C, and several others, alongside student coordinators like Ninjul Sajeer Kumar and Hridik N. The hackathon, themed around "Climate Action," "Equal Access to Education and Opportunities," and "Economic Growth and Job Security," attracted diverse participants from institutions nationwide. Teams of 2-4 members presented innovative project ideas judged by esteemed panelists including Dr. Anetha Mary Soman, Ms. Jithika M, and others. The day-long event, held at Seminar Hall 1, CSE Lab 1, and CSE Lab 4, culminated with shortlisted teams advancing to the finals, reflecting the participants' technical, collaborative, and problem-solving skills.



ROAR: RISE-OUTREACH - ASPIRE -REALIZE

Motivational Program Organized by the Department of Computer Science and Engineering On 5th September 2023, the Department of Computer Science and Engineering at St. Thomas College of Engineering and Technology conducted a motivational program titled "ROAR: Rise-Outreach-Aspire-Realise" for the 2020-2024 CSE batch. The event, held from 9:00 AM to 11:00 AM, featured Lieutenant Colonel C. Praveen as the guest resource person. The program aimed to empower students with the mindset, skills, and tools necessary to overcome challenges and achieve their aspirations. Coordinated by Ms. Sreerexha K. P. (Staff Coordinator) and Ms. Anju G. (Association Coordinator), the program emphasized themes such as self-belief, lifelong learning, goal-setting, and perseverance. The event also received immense support from faculty members, including Dr. Amitha I.C. (HOD) and the organizing team.



Lieutenant Colonel C. Praveen inspired students to embrace resilience, continuous learning, and ambition. He shared practical strategies to turn aspirations into reality through discipline and effort. Organized in collaboration with Geekzone, the program left a lasting impact, fostering a sense of purpose and determination among students. It also contributed to critical skills such as teamwork, effective communication, and lifelong learning, as outlined by the program objectives. The efforts of the staff and student coordinators ensured its seamless execution and enriched learning experiences for all attendees.

CYBER SECURITY AND ETHICAL HACKING



The Department of Computer Science and Engineering at Christ's College, Bangalore, successfully organized a seminar on “Cyber Security & Ethical Hacking” on 18th September 2023, from 10:30 AM to 12:30 PM. The event, held in collaboration with Techbyheart, featured Mr. Dhanoop R as the resource person and targeted CSE students from the 2021–2025 and 2022–2026 batches. Faculty members such as Dr. Amitha I C (HOD) and several assistant professors, including Ms. Sreekha K P, Mr. Jithin S, Ms. Anju G, Ms. Dinla O K, and Ms. Vaishakhi V K, provided coordination and support. Student coordinators were also actively involved in ensuring the smooth execution of the program.

This seminar aimed to raise awareness about cybersecurity and ethical hacking. Participants gained insights into topics like social media privacy, phishing, cybercrime, ethical hacking, and real-world applications of cybersecurity practices. The session highlighted practical tools, case studies, and preventive measures to safeguard digital assets, aligning with professional and lifelong learning outcomes



CANVAS CLASH: POSTER DESIGNING COMPETITION

The Coding Club STM, under the GeekZone (CSE Association) of the Department of Computer Science and Engineering, organized an engaging poster design competition titled “Canvas Clash”. The event, held on October 6, 2023, at CSE Lab 2 from 1:30 PM to 4:30 PM, aimed to showcase students' artistic talents while raising awareness about “Cyber Security in the Digital Age”, the competition's theme. Open to participants from all departments and years, the competition encouraged creativity and originality, with strict rules against the use of templates or copyright infringement.



The event was coordinated by staff members Ms. Jithika M and Ms. Dinla O K (Assistant Professors, CSE Department), alongside student coordinators Rajath P, Isha Sudhir, Abhishek U K, Nasla Safiya, Mohammed Riyad, and Samantha Shine Jyothirmayi. Jury members included Dr. Amitha I C (HOD, CSE), Mr. Rahul V A (Assistant Professor, ASH), Mr. Jithin S (Assistant Professor, CSE), and Ms. Ashwini H (Training and Placement Officer). Cash prizes of ₹2000 and ₹1000 were awarded for the first and second places, respectively. This successful event fostered creativity, enhanced design skills, and emphasized the importance of digital security, leaving participants motivated for future challenges.

OUT REACH PROGRAM: ONE DAY WEB DESIGNING WORKSHOP

The Department of Computer Science and Engineering at St. Thomas College of Engineering & Technology, in collaboration with VBLAZE Club and GeekZone, organized a one-day outreach program titled "Web Design Workshop" on October 12, 2023, at the IT Lab of Sivapuram Higher Secondary School. The workshop introduced 40 ninth-standard students to the fundamentals of web design, covering HTML basics such as elements, attributes, colors, links, and images, along with a hands-on website project. Coordinated by faculty members Mr. Jithin S, Ms. Jithika M, and along with student leaders, the event aimed to ignite interest in web design and equip participants with foundational skills for creating web pages.



The program featured interactive sessions that simplified complex web design concepts into manageable lessons, ensuring participants could grasp the fundamentals. Students were guided through practical exercises covering HTML elements, attributes, styles, and more, culminating in a hands-on project to create their own web pages. The event concluded with a project showcase, allowing students to demonstrate their learning and creativity. Feedback was overwhelmingly positive, with 94.2% rating the workshop as excellent and all students reporting improved web design skills. Additionally, 100% of attendees expressed interest in advanced workshops, reflecting the program's success in sparking enthusiasm for web design. The Headmaster of Sivapuram HSS praised the event for its organization and its ability to provide students with a valuable, practical learning experience.



ONE DAY WORKSHOP ON IOT FOR BEGINNERS

IoT Workshop: A Hands-On Learning Experience The Department of Computer Science and Engineering at STM, in collaboration with GEEKZONE, CSI STM, and IEDC STM, successfully conducted a one-day workshop titled "IoT for Beginners" on October 28, 2023. This event, held in the CSE Lab 1 from 9:00 AM to 4:30 PM, targeted S5 and S7 CSE students and interested external candidates, with a total of 50 seats available.

Expert resource persons, Mr. Sayandh N S and Mr. Marwan, led the sessions. Topics covered included IoT fundamentals, sensor interfacing with Node MCU, and applications like home automation and anti-theft systems. Coordinated by faculty members Mr. Madhu K and Ms. Anu C, with student support from Anand K K, Aswin Ratheesh, Crisbin Joseph, and Niveditha Shyjith, the workshop provided a comprehensive introduction to IoT technologies. The program also generated a surplus of ₹1,800, which will be utilized for departmental activities. Feedback from participants highlighted the session's practical approach and its value in enhancing technical skills.



ONAM 2K23



EDITORIAL TEAM

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. Sheetal Madhu (S5 CSE)

Ms.Sandra CM (S5 CSE)

Mr.Muhammed Hadhif Manoly(S5 CSE)



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