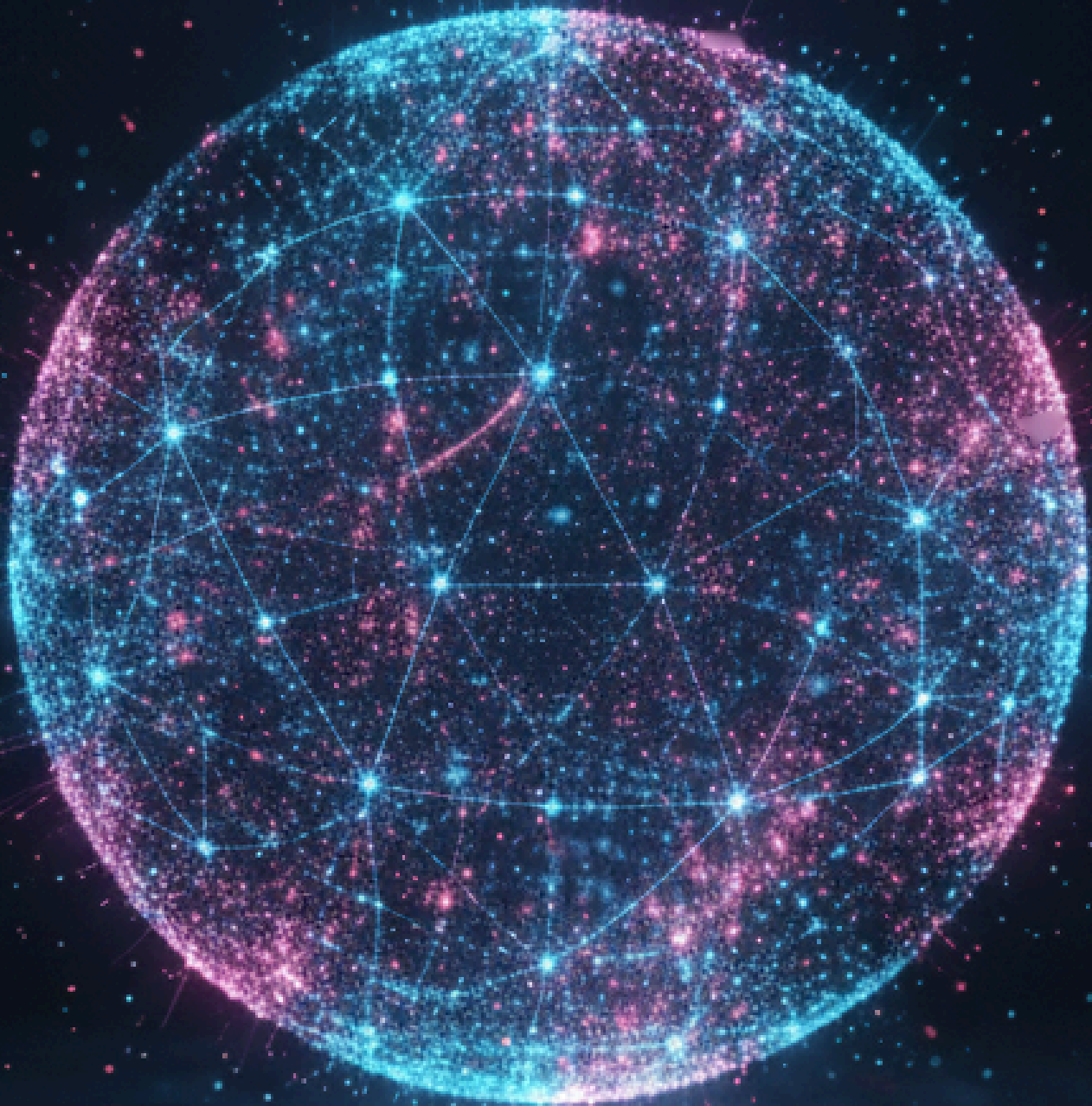


# THE GEEKZONE BYTE

SNIPPETS OF CODE, CREATIVITY,  
AND CAMPUS LIFE



AY 2023-2024



**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



**Geekzone**

COMPUTER SCIENCE AND ENGINEERING ASSOCIATION

# THE GEEKZONE BYTE'24

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**COMPUTER SCIENCE DEPARTMENT MAGAZINE**

**ST. THOMAS COLLEGE OF ENGINEERING & TECHNOLOGY, KANNUR**

# ABOUT ST. THOMAS COLLEGE OF ENGINEERING & TECHNOLOGY



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.

## VISION OF THE INSTITUTE

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

## MISSION OF THE INSTITUTE

- M1: Infrastructural Relevance Develop, maintain, and manage our campus for our stakeholders.**
- M2: Life-Long 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 DEPARTMENT



The field of Computer Science is ever-evolving, and the Department of Computer Science is structured to keep pace with this continuous growth. Recognizing the rapid advancements in the Information Technology sector, all laboratories are equipped with robust network infrastructure and are regularly updated and upgraded to meet the current demands and expectations of the industry.

## 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 (PEO)**

- 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 (PSO)**

- 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 (PO)

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.



# MESSAGE



It gives me immense pleasure to note that the Department of Computer Science and Engineering is publishing its association magazine “The Geekzone Byte.” This initiative of the “Geekzone” association provides a vibrant platform for students to showcase their creativity, technical skills, and innovative ideas.

I take this opportunity to congratulate the association coordinators, faculty members, and students for their collective effort in bringing out this publication. A magazine like “The Geekzone Byte” reflects not only the academic enthusiasm of the department but also the passion and teamwork of its members.

As engineering students, it is essential to continually upskill and enhance your knowledge, especially in emerging domains such as Artificial Intelligence and related technologies. By embracing innovation and applying your learning effectively, you contribute meaningfully to the progress of our nation and society.

I wish the Geekzone association and “The Geekzone Byte” team continued success in all their future endeavours. May this magazine inspire many more students to explore, create, and excel in the dynamic field of computer science and engineering.

*Dr. Shinu Matthew John*

Principal, STM



# MESSAGE



It gives me immense pleasure to present THE GEEKZONE BYTE, the technical magazine of the Computer Science and Engineering department, which captures the vibrant academic and co-curricular spirit of our students and faculty. This edition proudly showcases the achievements of our college, including the academic excellence of our toppers, noteworthy research publications, and the remarkable contributions of both staff and students. It also offers a glimpse into enriching experiences like industrial visits and creative expressions through student articles. I congratulate the entire team for their dedicated efforts in bringing this magazine to life and wish them continued success in all future endeavours.

*Er. Rijo Jose Thomas*

CEO, STM



# MESSAGE



I am happy to share this edition of THE GEEKZONE BYTE: Snippets of Code, Creativity, and Campus Life, which highlights the achievements and activities of CSE department. Our students have done well in academics, won prizes, presented papers, and taken part in industrial visits. Our faculty members have also received awards and contributed through events and research. This magazine includes articles, creative works, and ideas from our talented students. Congratulations to everyone, and let's keep up the good work!

*Dr. Amitha IC*

Assoc. Prof. & HoD, CSE



# EDITORIAL BOARD



It brings me immense pleasure to present this edition of our department magazine—a reflection of our vibrant academic community. This issue proudly highlights the achievements of our toppers, showcases exciting events and award ceremonies, and captures the spirit of innovation through student paper presentations. We also take you through enriching industrial visits and the creative expressions in our Student Corner. Each page is a testament to the talent, hard work, and enthusiasm that define our campus.

Happy reading!

A handwritten signature in black ink that reads "Mr. Jithin S". The signature is written in a cursive style with a large, sweeping flourish at the end.

Asst. Prof, CSE



# **EDITORIAL BODY**

## **Staff Coordinator**

**Mr. Jithin S (AP, CSE)**

## **Student Members**

**Mr. Sivanth P K (S6 CSE)**

**Mr. A K Rithul (S6 CSE)**

**Mr. Muhammed Hadhif Manoly (S6 CSE)**

# FACULTY



Assoc. Prof. & HoD  
AMITHA I C



Asst. Prof.  
ANJU G



Asst. Prof.  
VAISHAKI V K



Asst. Prof.  
ANU C

# FACULTY



Asst. Prof.  
JITHIKA M



Asst. Prof.  
SREEREKHA K.P



Asst. Prof.  
ASWATHY DEVARAJ

# FACULTY



Asst. Prof.  
REMYA P V



Asst. Prof.  
MADHU K



Asst. Prof.  
DINLA O K

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# Toppers

2020-2024 (Batch)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## 58 TOPPERS



DEEPIKA MOHAN  
SGPA:9.09



TYPHEL THOMAS  
SGPA:8.79



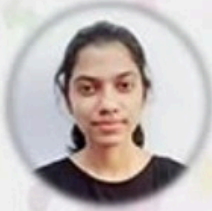
ISHA SUDHIR  
SGPA:8.71



PUNNYA PRADEEP E  
SGPA:8.68



AKARSH B  
SGPA:8.59



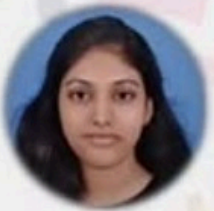
ANJEETHA SURESH  
SGPA:8.32



ASWANTH T K  
SGPA:8.29



HILA SASEENDRAN  
SGPA:8.29



NYNIKA SANDEEP  
SGPA:8.29



NEHA FAZAL CK  
SGPA:8.21



ASHBIN SHAJEE  
SGPA:8.18



SHAHANA SHIRIN C P  
SGPA:8.06



GADHA KRISHNA CH  
SGPA:8.03

 Congratulations

# Toppers

2020-2024 (Batch)



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

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

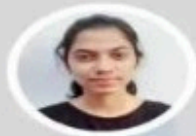
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**DEPARTMENT OF COMPUTER SCIENCE  
AND ENGINEERING**

**S7 TOPPERS**



Isha Sudhir  
SGPA: 9.8



Anjeetha Suresh  
SGPA: 9.6



Deepika Mohan  
SGPA: 9.6



Punya Pradheep E  
SGPA: 9.53



Akarsh B  
SGPA: 9.27



Gadha Krishna C H  
SGPA: 9.23



Shahana Shirin C P  
SGPA: 9



Typhel Thomas  
SGPA: 8.93



Anurag K  
SGPA: 8.77



Ashbin Shajee  
SGPA: 8.77



Anujith V K  
SGPA: 8.7



Ahila Saseendran  
SGPA: 8.67



Fathima Zuhara PK  
SGPA: 8.63



Gopika N  
SGPA: 8.63



Sreerej M  
SGPA: 8.63



Kiran Dinesh  
SGPA: 8.53



Nynika Sandeep  
SGPA: 8.53



Malavika Surendran  
SGPA: 8.5



Aswanth T K  
SGPA: 8.33



Neha Fazal CK  
SGPA: 8.23



Akshara B  
SGPA: 8.17



Rajat P  
SGPA: 8.13

*Congratulations*

# Toppers

2021-2025 (Batch)



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

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



*Congratulations!*  
**S6 TOPPERS**



**SHEETAL MADHU**  
SGPA - 9.67



**SANDRA C M**  
SGPA - 9.26



**AYSHA SHAMA MUSAMIL**  
SGPA - 9.00



**A K RITHUL**  
SGPA - 8.43



**SAYANTH K**  
SGPA - 8.41



**AKASH M**  
SGPA - 8.37



**GOPIKA PRADEEP**  
SGPA - 8.37



**SIVANTH P K**  
SGPA - 8.37



**DRISHYAP K**  
SGPA - 8.17



**NAJWA**  
SGPA - 8.17

**“ OVERALL  
RESULT  
71% ”**

# Toppers

2022-2026 (Batch)



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

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## S4 TOPPERS



Jibin PV  
SGPA: 9.27



Rhythoshika K  
SGPA: 9.18



Rifa Saleem  
SGPA: 9.14



Samantha Shine Jyothirmayi  
SGPA: 9.09



Devathmaj A Kaliyathan  
SGPA: 8.77



Ashika Raveendran  
SGPA: 8.73



Mevin R Pradeep  
SGPA: 8.64



Meghna C  
SGPA: 8.59



Aysha P P  
SGPA: 8.55



Chandana Krishna  
SGPA: 8.50



Abhinav K  
SGPA: 8.45



Akshara K  
SGPA: 8.09



Sredha Dhanaraj  
SGPA: 8.09



Harikrishnan K V  
SGPA: 8.05



Niranj C M  
SGPA: 8.05

*Congratulations!*

# Toppers

2022-2026 (Batch)



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

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### S3 TOPPERS



**Samantha Shine Jyothirmayi**  
SGPA: 9.45



**Rhuthoshika K**  
SGPA: 9.45



**Rifa Saleem**  
SGPA: 9.09



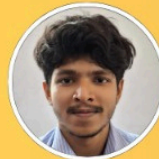
**Jibin P**  
SGPA: 9.00



**Meghna C**  
SGPA: 8.86



**Jagan K K**  
SGPA: 8.64



**Nevin R Pradeep**  
SGPA: 8.64



**Abhinav K**  
SGPA: 8.27



**Devathmaj A Kaliyathan**  
SGPA: 8.27



**Chandana S Krishna**  
SGPA: 8.23



**Muhammed Fayiz V C**  
SGPA: 8.18



**Ayisha P P**  
SGPA: 8.14



**Harikrishnan K V**  
SGPA: 8.14

**Congratulations!**

# Toppers

2023-2027 (Batch)



**St. Thomas College of Engineering & Technology**  
Vellilode, Sivapuram P.O., Mattanur, Kannur District, Kerala  
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**B.TECH S2 UNIVERSITY EXAM RESULTS**

**TOPPERS**



**SOUMYAKEERTHI KS**  
CSE



**SHYAMJITH M**  
CSE



**ANJITHA V**  
CSE



**SNEETHI S**  
CD



**SRUTHIN M**  
CD



**FATHIMA ZENHA ZAMEER**  
CD



**ABSHEERA ABDULLA**  
CD



**ANJANA M**  
CE



**ARUNIMA K**  
CE



**T SHIVAPRIYA**  
CE



**MUHD. MISHAL P**  
ECE



**MUHD. HANAN**  
ECE



**DIYA A P**  
ECE



**RHITHUL C P**  
ME

**DEPARTMENT OF APPLIED SCIENCE & HUMANITIES**

# Toppers

2023-2027 (Batch)

**B.TECH S1 UNIVERSITY EXAM  
RESULT-2023-27 BATCH...**

## **HIGH PERFORMERS**



**ANJITHA V**  
CGPA- 9.76



**SOMAYAKEERTHI KS**  
CGPA- 9.41



**SHYAMJITH M**  
CGPA-9.26



**MOHD AZEEM SAMPRATH**  
CGPA- 9.18



**MOHD. ZAID OV**  
CGPA- 8.82



**FATHIMATHU SUHADA**  
CGPA- 8.76



**SANKEERTHANA P**  
CGPA-8.68



**SRUTHIN MOORKOTH**  
CGPA-8.62



**YAZIN V M**  
CGPA- 8.56



**ANJANA M**  
CGPA- 8.5



**GAGANDEV P V**  
CGPA- 8.47



**ABSHEERA**  
CGPA- 8.35



**AYSHA FAZIYA**  
CGPA- 8.35



**FIDHA FATHIMA**  
CGPA- 8.29



**SNEETHI SUDHEENDRAN**  
CGPA- 8.26



**KRISHNA SAJEEVAN**  
CGPA-8.18



**FATHIMA SABA M**  
CGPA- 8.12



**ANJANA RAJ**  
CGPA- 8.06

EVENT  
ORGANIZATION



# HACKATHON

Name of Event: HACKFEST REGIONAL ROUND

Date of Event: 25/07/2023

Event Coordinator: Ms. Vaishakhi V K

## AIM OF THE PROGRAM

The aim of iTech Hackfest is to foster innovation and collaboration among engineering graduates by providing a platform to develop real-world solutions. It also aims to bridge academia and industry by facilitating mentorship and networking opportunities with experts from leading organizations like SAP and KAAR.

## PROGRAM DETAILS

The iTech Hackfest 2K23 Regional Round was organized by the Department of Computer Science and Engineering on 25/07/2023 from 9:00 AM to 12:30 PM. The academic partner was PSG iTech and the Industry Partners were SAP and KAAR, with the event serving as the Center for Regional Round (Kerala Region).

During the event, 22 teams presented their project ideas and implementation plans across three venues: Seminar Hall I, CSE Lab, and Browsing Lab. The presentations covered three themes: Climate Action, Equal Access To Education and Opportunities, and Economic Growth and Job Security. Following evaluation based on ideation, market product fit, team structure, and technology, 9 teams were shortlisted for the final round.

# HACKATHON

## POSTER OF THE EVENT

 **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

**Department of Computer Science and Engineering**  
PRESENTS  
**iTech HackFest 2023**  
Regional Round  
**25/07/2023**  
in association with

ACADEMIC PARTNER  


INDUSTRIAL PARTNERS  
 

## CONCLUSION

The iTech Hackfest 2K23 was successfully completed. It gave students a great platform to show their creative ideas and technical skills. Students worked on real-world problems and learned to develop practical solutions. The event helped improve their innovation, teamwork, and technical abilities. After careful evaluation, 9 best teams were selected to move forward to the next level of the competition.

# HACKATHON

## SNAPSHOTS OF THE EVENT



# MOTIVATIONAL TALK

Name of Event: ROAR: RISE-OUTREACH -ASPIRE -REALIZE

Date of Event: 05/09/2023

Event Coordinators: Ms. Sreerekha K P (AP, CSE), Ms. Anju G (AP, CSE)

## AIM OF THE PROGRAM

The ROAR motivation program aimed to inspire and empower final-year Computer Science and Engineering students (2020-2024 batch) with the mindset, skills, and tools necessary to overcome challenges, set ambitious goals, and unlock their full potential. Through an interactive session with an experienced resource person, the program sought to encourage self-belief, continuous learning, and purposeful action among participants.

## PROGRAM DETAILS

The ROAR motivation program was organized by the Department of Computer Science and Engineering in collaboration with Geekzone on 5th September 2023. The event, held from 9:00 AM to 11:00 AM at Seminar Hall 1, featured Lieutenant Colonel C Preveen as the resource person and was attended by 58 final-year students.

The session was structured around the four core themes of the program:

- Rise: Emphasizing self-belief and the power to overcome challenges.
- Outreach: Encouraging continuous learning and seeking knowledge.
- Aspire: Motivating students to dream big and set ambitious goals.
- Realise: Sharing practical tips on turning aspirations into reality through planning and discipline.

# MOTIVATIONAL TALK

## POSTER OF THE EVENT

**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

# ROAR

## RISE-OUTREACH -ASPIRE -REALISE

**SPEAKER**  
Lt. Col. C Preveen  
CEO, EdTech Startup

05/09/2023 9.00-11.00 AM Seminar Hall 1

Targeted Audience : 2020-2024 Batch CSE Students  
In Association With

**Geekzone**  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CONCLUSION

The ROAR program successfully inspired students to believe in their potential and pursue their dreams with confidence. The session provided practical guidance and motivation for personal and career growth, effectively encouraging a positive mindset and lifelong learning among all participants.

# MOTIVATIONAL TALK

## SNAPSHOTS OF THE EVENT



# SEMINAR

Name of Event: CYBER SECURITY AND ETHICAL HACKING

Date of Event: 18/09/2023

Event Coordinators: Dr. Amitha I C (HOD, CSE), Ms. Sreerekha K P (AP, CSE)

## AIM OF THE PROGRAM

The primary aim of the seminar was to educate students on the importance of cybersecurity and provide them with an understanding of ethical hacking, empowering them to build a safer digital environment.

## PROGRAM DETAILS

The Department of Computer Science and Engineering at St. Thomas College of Engineering & Technology organized a seminar on “Cyber Security & Ethical Hacking” in association with Techbyheart. The seminar was held on September 18, 2023, from 10:30 am to 12:30 pm in Seminar Hall 1. The resource person for the event was Mr. Shazin Shahul.

The program provided a comprehensive overview of cybersecurity, starting with a discussion on social media platforms, their advantages, and disadvantages like cyberbullying and the risk of spending excess time scrolling. Significant attention was given to data privacy, noting concerns about search engines collecting search history and location data, and highlighting a case where Google was fined for tracking users' locations without consent. Tools like Firefox Monitor were recommended to check if an email ID has been part of a data breach, and DuckDuckGo was suggested as a privacy-protecting default search engine because it hides the user's IP address.

The seminar also focused on crucial aspects of security, detailing how to create a strong password by including lowercase, uppercase, digits, and symbols, and recommending the use of passphrases for better security. Attendees learned about different types of hackers: White hat hackers (ethical hackers), Black hat hackers (illegal hackers), and Grey hat hackers (who disclose vulnerabilities to law enforcement). The function of a Security Operation Hub to monitor for cyber attacks was explained. The session concluded by discussing various cyber attack techniques, including Denial of Service (DoS) attacks, Web Jacking, Spamming, Phishing, and the use of tools like Keyloggers and the USB Rubber Ducky.

# SEMINAR

## POSTER OF THE EVENT



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

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
IN ASSOCIATION WITH TECHBYHEART**

ORGANIZES A SEMINAR ON

# CYBER SECURITY AND ETHICAL HACKING

18<sup>TH</sup> SEPTEMBER 2023 | 10:30 AM TO 12:30 PM | VENUE: SEMINAR HALL 1, STM



RESOURCE PERSON

**DHANOOP R**

ASSOCIATE MEMBER IN NATIONAL CYBER SAFETY SECURITY STANDARDS

VOLUNTEER AT THE NATIONAL CYBER DEFENSE RESEARCH CENTER

CYBER SECURITY ANALYST AT TECHBYHEART INDIA PVT LTD



## CONCLUSION

The seminar successfully achieved its objective by educating students on the importance of cybersecurity and providing them with an understanding of ethical hacking. Participants gained a basic understanding of common cyber threats and acquired knowledge of best practices for safeguarding digital assets. The program was integral in contributing to the students' overall development, covering aspects relevant to engineering knowledge and life-long learning.

# SEMINAR

## SNAPSHOTS OF THE EVENT



# COMPETITION

Name of Event: CANVAS CLASH: POSTER DESIGNING COMPETITION

Date of Event: 06/10/2023

Event Coordinators: Ms. Jithika M (AP, CSE), Ms. Dinla O K (AP, CSE)

## AIM OF THE PROGRAM

To provide students with a platform to showcase their artistic talents, convey powerful messages through design, and enhance their creative skills in a competitive environment.

## PROGRAM DETAILS

The Coding Club STM under GeekZone organized this poster design competition for students across all departments and years. The event was held in CSE Lab from 1:30 PM to 4:30 PM with the theme & Cyber Security in the Digital Age. Participants used either their own laptops with any software or provided systems with browser-based tools like Canva, following strict rules against template usage.

# COMPETITION

## POSTER OF THE EVENT

The poster is for a 'Creative Canvas' website designing competition. At the top, it features the logo of St. Thomas College of Engineering & Technology, Vellilode, Sivapuram P.O., Mattanur, Kannur District, Kerala, along with its affiliations. The main title 'CREATIVE CANVAS' is prominently displayed in large white letters. Below the title, it specifies the event as a 'WEBSITE DESIGNING COMPETITION FOR SIG STUDENTS, 2ND YEAR'. Key details include 'FREE REGISTRATION' and that 'BEST PERFORMERS' will be 'REWARDED WITH CERTIFICATE OF APPRECIATION'. The date is '20-03-2025', the time is '02:45 PM - 04:30 PM', and the venue is 'DATA SCIENCE LAB 2'. Staff coordinators listed are Saritha Narayanan (AP, CSE) and Sneha T (AP, CD). The poster also includes logos for 'Geekzone' and 'DATA SCIENCE'.

St. Thomas College of Engineering & Technology  
Vellilode, Sivapuram P.O., Mattanur, Kannur District, Kerala  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
&  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
(DATA SCIENCE)

**CREATIVE  
CANVAS**

WEBSITE DESIGNING COMPETITION FOR SIG STUDENTS,  
2ND YEAR

FREE  
REGISTRATION

BEST PERFORMERS  
REWARDED WITH  
CERTIFICATE OF  
APPRECIATION

**DATE: 20-03-2025**  
02:45 PM - 04:30 PM  
VENUE: DATA SCIENCE LAB 2

STAFF COORDINATORS:  
SARITHA NARAYANAN (AP, CSE)  
SNEHA T (AP, CD)

## CONCLUSION

The competition successfully fostered creativity and awareness about cybersecurity. Students demonstrated exceptional design skills and understanding of digital safety concepts. The event provided valuable experience in graphic design and visual communication, encouraging participants to explore and nurture their artistic talents in a competitive yet collaborative environment.

# SEMINAR

## SNAPSHOTS OF THE EVENT



# OUT REACH PROGRAM

Name of Event: OUT REACH PROGRAM: ONE DAY WEB DESIGNING WORKSHOP

Date of Event: 12/10/2023

Event Coordinators: Mr. Jithin S (AP CSE), Ms. Jithika M (AP CSE)

## AIM OF THE PROGRAM

The outreach program aimed to introduce 9th standard students from Sivapuram HSS to the fundamentals of web design. The workshop sought to spark interest in technology and web development by providing hands-on experience in creating simple web pages using HTML, thereby building foundational digital skills among school students.

## PROGRAM DETAILS

The Department of Computer Science and Engineering conducted this outreach program at Sivapuram HSS IT Lab in association with VBLAZE and GeekZone. The workshop covered comprehensive HTML basics and practical website development. 34 school students participated in the full-day session (10:00 AM - 3:30 PM), receiving hands-on training from experienced student coordinators under faculty guidance. The program combined theoretical concepts with practical implementation.

# OUT REACH PROGRAM

## POSTER OF THE EVENT

**St. Thomas College of Engineering & Technology**  
Vellilode, Sivepuram PO, Mationur, Kottayam District, Kerala  
Approved by AICTE, New Delhi, Kerala, and affiliated to APJ Abdul Kalam Institute of Technology at S. Thomas

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
PRESENTS  
OUTREACH PROGRAM  
**ONE DAY  
WEB DESIGN WORKSHOP**

Geekzone  
IN ASSOCIATION WITH  
**VBLASE**  
The development by safi

**12 OCTOBER 2023**  
**10:00AM - 3:30PM**

**VENUE:**  
SIVAPURAM HSS IT LAB

**TARGETED AUDIENCE :**  
9<sup>TH</sup> STANDARD STUDENTS OF  
SIVAPURAM HSS

**STAFF COORDINATORS:**  
MR. JITHIN S (AP CSE)  
MS. JITHIKA M (AP CSE)

**STUDENT COORDINATORS:**  
MR. PRADUL P (S7 CE)  
MR. RAJATH P (S7 CSE)  
MR. NIRANJ C N (S3 CSE)  
MS. ISHA SUDHIR (S7 CSE)  
MR. MOHAMMED RIYAD (S7 CSE)

## CONCLUSION

The program successfully introduced students to web design, with 100% of participants reporting improved skills and interest in advanced workshops. It effectively inspired young minds to explore web development.

# OUT REACH PROGRAM

## SNAPSHOTS OF THE EVENT



# WORKSHOP / CSI

Name of Event: ONE DAY WORKSHOP ON IOT FOR BEGINNERS

Date of Event: 28/10/2023

Event Coordinators: Mr. Madhu K (AP, CSE), Ms. Anu C (AP,CSE)

## AIM OF THE PROGRAM

The workshop aims to give a brief idea about of IoT and its applications through hands on experience in sensor interfacing, data analysis and basic automation enabling them to understand and apply IoT concepts.

## PROGRAM DETAILS

The training program included interactive sessions covering the basics of IoT, sensor interfacing, and working with microcontrollers. Participants were guided through practical demonstrations, hands-on experiments, and real-time applications such as data monitoring and automation. The sessions progressed from introductory concepts to implementation-based activities, ensuring students gained both theoretical understanding and practical exposure.

## POSTER OF THE EVENT

**St. Thomas College of Engineering & Technology**  
Vallilode, Sivapurem PO, Mattannur, Kannur District, Kerala  
Approved by AICTE New Delhi, Coe-III Kerala and Affiliated to APJ Abdul Kalam Technological University

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
PRESENTS

**One day workshop  
On  
IoT for Beginners**

RESOURCE PERSON:  
**Mr. SAYANDH N S**

GUEST TALK :  
**Mr. UMER MUQTHAR**  
CTC, PACELAB  
Topic :  
**'Career preparedness and opportunities in IoT'**

📅 28<sup>TH</sup> OCTOBER 2023 🕒 9:00 AM - 4:30 PM  
📍 CSE LAB 1

**STAFF COORDINATORS**

- Mr. MADHU K, AP, CSE
- Ms. ANU C, AP, CSE

**STUDENT COORDINATORS**

- Mr. ANAND KK
- Ms. NIVEDITHA SHYJITH
- Mr. CRISBIN JOSEPH
- Mr. ASWIN RATHEESH

IN ASSOCIATION WITH

   **PACELAB**  
Redefining Technology

## CONCLUSION

The session was informative and helped students gain practical knowledge and confidence in working with IoT concepts and applications.

# WORKSHOP / CSI

## SNAPSHOTS OF THE EVENT



# HANDS-ON WORKSHOP

Name of Event: MASTERING LATEX SOFTWARE: A SCIENTIFIC DOCUMENT APPROACH

Date of Event: 15/02/2024 & 16/02/2024

Event Coordinator: Ms. Dinla O K (AP,CSE)

## AIM OF THE PROGRAM

The aim of the program was to provide students with a theoretical understanding and hands-on experience in using LaTeX software for preparing professional and scientific documents.

## PROGRAM DETAILS

The workshop included sessions on LaTeX basics, commands, creating tables, figures, mathematical equations, and slide presentations. As programming in LaTeX improve the project quality. Students were guided through practical activities to help them gain confidence in document preparation using LaTeX.

# HANDS-ON WORKSHOP

## POSTER OF THE EVENT

 **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

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**PRESENTS**  
**LATEX**  
**WORKSHOP 2024**

**MASTERING LATEX SOFTWARE-**  
**A SCIENTIFIC DOCUMENTATION APPROACH**

<b>FEBRUARY 15 2024</b>	<b>FEBRUARY 16 2024</b>
<b>TIME: 1:30 PM - 4:30 PM</b>	<b>TIME: 9:30 AM - 12:30 PM</b>
<b>VENUE: CSE LAB 1</b>	<b>TIME: 1:40 PM - 4:40 PM</b>
	<b>VENUE: CSE LAB 1</b>

## CONCLUSION

The program was successful in improving students skills and confidence in using LaTeX for academic and technical documentation

# HANDS-ON WORKSHOP

## SNAPSHOTS OF THE EVENT



Name of Event: FDP BY NITK, VLAB TEAM ON VIRTUAL LABS

Date of Event: 23/02/2024

Event Coordinators: Ms .Sreerekha K P (AP, CSE), Dr. Amitha I C (HOD, CSE)

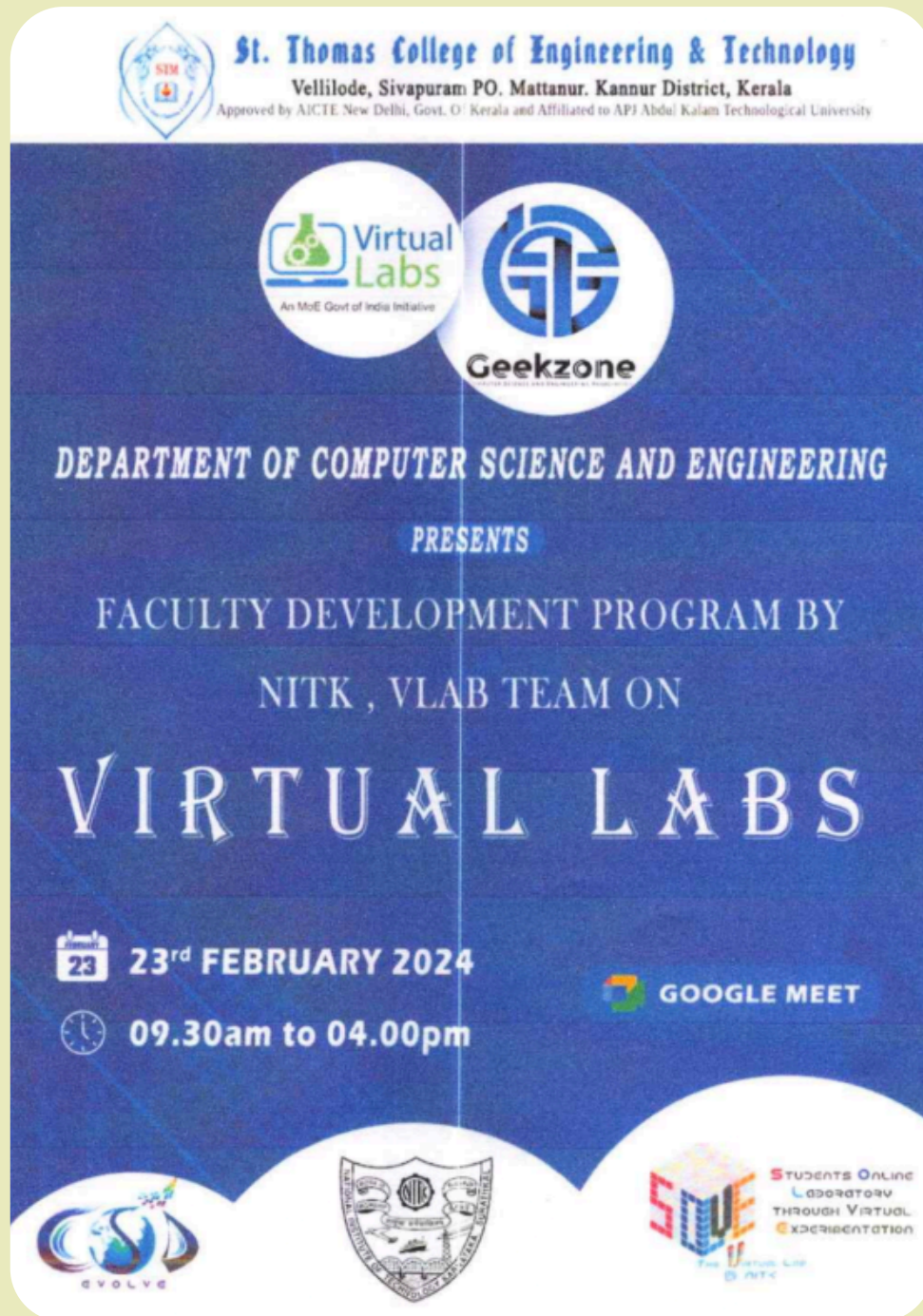
## AIM OF THE PROGRAM

The aim of the Faculty Development Program was to train faculty members and technical staff in conducting experiments using Virtual Labs, enhancing their ability to integrate this digital tool into their teaching methodologies.

## PROGRAM DETAILS

The online Faculty Development Program on Virtual Labs was organized by the Department of Computer Science and Engineering on February 23, 2024. Conducted in collaboration with the Virtual Lab Outreach Team from NITK Surathkal, the full-day session was held via Google Meet from 9:30 AM to 4:00PM. The event featured domain-specific demonstrations for Circuit Branch, Computer Science, Mechanical Engineering, and Civil Engineering, delivered by resource persons from NITK. A total of 42 faculty members and lab assistants from CSE, Civil, Mechanical, and Electronics & Communication departments participated.

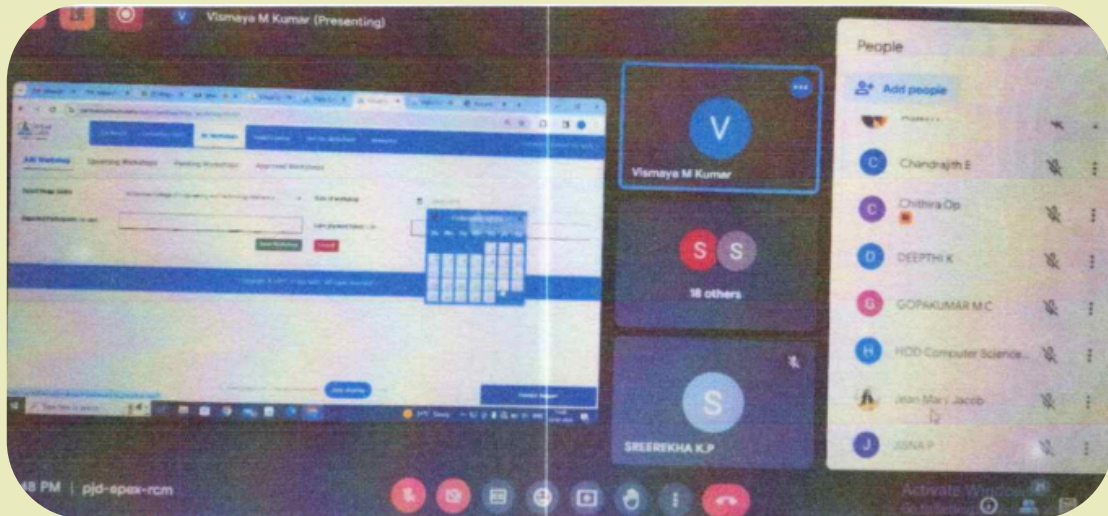
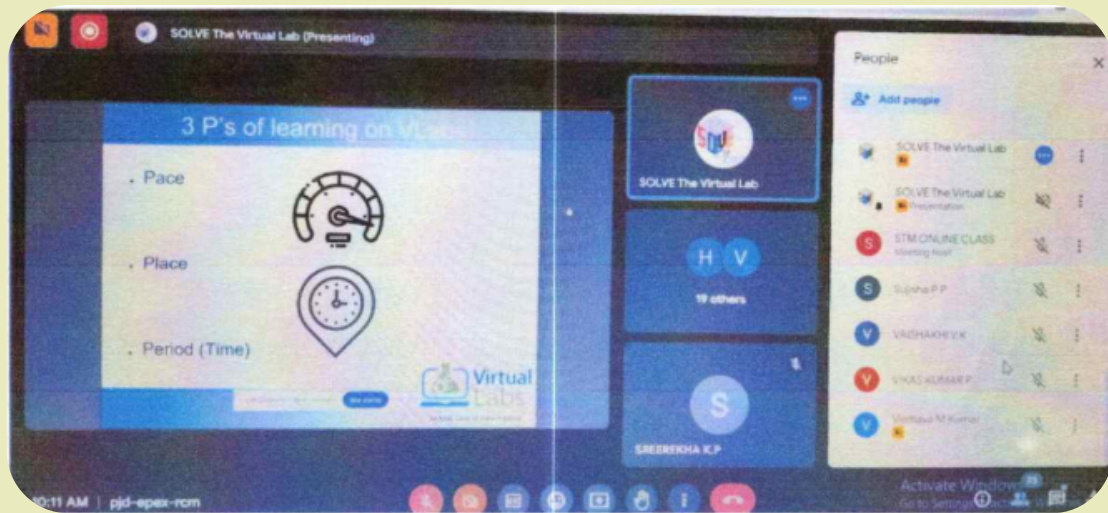
## POSTER OF THE EVENT



## CONCLUSION

The FDP successfully equipped participants with practical skills for using Virtual Labs in academic instruction. Feedback indicated strong satisfaction, with the majority of faculty rating the session as excellent. The program supported the attainment of Program Outcomes PO9 (Individual and Teamwork), PO10 (Communication), and PO12 (Lifelong Learning). Future plans include implementing Virtual Labs in specific course laboratories across all participating departments.

## SNAPSHOTS OF THE EVENT



# TECHFEST

Name of Event: NATIONAL LEVEL TECHNO-CULTURAL FEST

Date of Event: 17/04/2024 TO 19/04/2024

Event Coordinator: Ms. Jithika M (AP, CSE)

## AIM OF THE PROGRAM

The fest was an exciting opportunity for tech enthusiasts to demonstrate their skills and knowledge. It provided a platform for students to showcase their technical expertise and problem-solving skills, helping participants enhance their technical skills and knowledge.

## PROGRAM DETAILS

The Department of Computer Science and Engineering organized a three-day national level technical fest in association with GEEKZONE. The fest featured eleven intriguing events, including TeXplore (Quiz), TeClash (Debate), Merchandise (Sell Your Tech), Sightless Script (Blind Coding), Cipher Up (Debugging), Output Oracle (Guess the Output), Hidden Gems (Treasure Hunt), Combat Clash (BGMI), Soccer Slam (FIFA Gaming), Soccer Squares (Football Tic-Tac-Toe), and a Tech Expo (VR). Participants were able to earn up to 40 KTU activity points. The events were held across various venues including lecture halls and CSE Lab from 9:30 AM onwards.

## POSTER OF THE EVENT



**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



### National Level Techno - Cultural Fest

**50+**  
EVENTS

**17 - 19**  
APRIL

PRIZES WORTH  
**150K**

### TECH EVENTS

#### ASH

QUADRA  
CRAFTERS CLASH  
METAL MAYHEM  
BUZZ BLITZ  
IMAGINARIUM  
PEDAL PURSUIT  
ROBO CUP

#### ECE

CIRCURE  
TRACKWHACK  
TECHNOTION  
MELTDOWN  
CODEMEND

#### CSE

TEXPLORE  
MERCHANDISE  
TECLASH  
OUTPUT ORACLE  
COMBAT CLASH  
SIGHTLESS SCRIPT  
SOCCER SLAM  
HIDDEN GEMS  
CIPHER UP  
SOCCER SQUARES

#### CE

TOWER TAKEDOWN  
PROJECT HIGHRISE  
CAD MANIA  
WIZARD  
TERRARIA  
ARKCREATE  
PODIUM  
BUILT XTRA  
OPEN SIM SIM

#### ME

BRAIN BYTE BLITZ  
TECH STORM  
DRAFT MASTER  
CODE CONVO  
GEAR UP

# TECHFEST

**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

**National Level Techno - Cultural Fest**

**50+ EVENTS**      **17 - 19 APRIL**      **PRIZES WORTH 150K**

**CULTURAL EVENTS**

- FACE PAINTING
- NADAN PATTU
- NOSTALGIA
- CATCH THE VIBE
- CINEMATIC DANCE
- MEHANDI DESIGN
- PHOTOGRAHY
- FANCY DRESS
- SYNCHRONOUS DANCE
- SPOT DANCE
- VEGETABLE CARVING
- VOGUE GALA
- MIMICRY

## CONCLUSION

The Techfest was a grand success, providing students with a valuable platform to enhance their technical skills and knowledge through various competitions and an immersive Virtual Reality expo. The event effectively fostered healthy competition, camaraderie, and a spirit of innovation among participants.

# TECHFEST

## SNAPSHOTS OF THE EVENT



# HACKFEST

Name of Event: A NATIONAL LEVEL HACKATHON REGIONAL ROUND

Date of Event: 17/04/2024

Event Coordinator: Ms. Vaishakhi V K (AP, CSE)

## AIM OF THE PROGRAM

The aim of iTech Hackfest 2K24 was to provide a national-level platform for engineering students to collaborate and develop innovative solutions to real-world problems. The event focused on fostering creativity, technical skills, and entrepreneurial thinking by addressing critical themes relevant to societal and environmental challenges.

## PROGRAM DETAILS

The Department of Computer Science and Engineering organized the regional round of iTech Hackfest 2K24 on April 17, 2024, at Seminar Hall I. The event, held in partnership with PSG iTech (Academic Partner) and SAP (Industry Partner), featured 18 teams presenting solutions across three themes: Crowd Sourced Disaster Management, Green Credit Management, and Harnessing the Power of Renewable Energy. A total of 85 participants from multiple colleges, including STM, MES College, LBS College, and Christ College of Engineering, competed. The event was coordinated by Ms. Vaishakhi V K, with jury evaluations focusing on ideation, market fit, team structure, and technology stack.

# HACKFEST

## POSTER OF THE EVENT



St. Thomas College of Engineering and Technology

PSG iTech

SAP

Department of Computer Science and Engineering  
in association with  
SAP Labs India Pvt.Ltd  
& PSG iTech  
proudly present

# HACKFEST'24

A National level Hackathon Regional Round  
on  
17/04/2024

**THEMES**

- Crowd Sourced Disaster Management
- Green Credit Management
- Revolutionizing Tomorrow: Harnessing the Power of Renewable Energy

For More queries : Register Now

Contact: Vaishakhi VK  
Email: vaishakhi@stthomaskannur.ac.in  
Phone: 9495060854



**Registration Fee : ₹ 500 /Team**  
Last Date to Register : 11/04/24

For more details visit : <https://hackfest.info>

## CONCLUSION

iTech Hackfest 2K24 provided a vibrant platform for students to showcase innovation and problem-solving skills. The event met key Program Outcomes, including PO2 (Problem Analysis), PO5 (Modern Tool Usage), PO9 (Teamwork), and PO11 (Project Management). Participant feedback was highly positive, with 98% rating the event as “Good” or “Very Good” and 94% noting its impact on personal growth and teamwork. By connecting academic learning with real-world applications, the hackfest inspired future innovators and enhanced industry–academia collaboration.

# HACKFEST

## SNAPSHOTS OF THE EVENT



# HANDS-ON WORKSHOP / CLOSURE OF QL

Name of Event: Image Enhancement and Segmentation

Date of Event: 09/05/2024

Event Coordinator: Ms. Dinla O K(AP, CSE)

## AIM OF THE PROGRAM

To provide comprehensive theoretical and practical knowledge of image enhancement and segmentation techniques, equipping students with skills to improve image quality and extract features for real-world applications.

## PROGRAM DETAILS

The Department of Computer Science and Engineering organized this hands-on workshop for third-year CSE students from 9:00 AM to 1:00 PM in CSE Lab. Dr. Amitha I C served as the resource person and covered essential topics including brightness and contrast adjustment, smoothing, sharpening, filter applications, and region growing techniques. The workshop successfully addressed Course Outcome CO6 of CST 304 - Computer Graphics and Image Processing. A total of 59 students participated in the session, gaining hands-on experience with various image processing methods.

# HANDS-ON WORKSHOP / CLOSURE OF QL

## POSTER OF THE EVENT


The poster is for a hands-on workshop titled "HANDS-ON WORKSHOP ON IMAGE ENHANCEMENT & SEGMENTATION". It is presented by the Department of Computer Science and Engineering at St. Thomas College of Engineering & Technology. The resource person is Dr. Amitha I C, an Associate Professor in Computer Science and Engineering. The staff coordinator is Asst. Prof. Dinla O K. The event is scheduled for 9th May 2024, from 9:00 AM to 1:00 PM, in CSE Lab 1. The poster features a dark blue background with a network of white lines and dots, and a circular portrait of Dr. Amitha I C.

**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




**Department of Computer Science and Engineering**  
PRESENTS

**HANDS-ON WORKSHOP ON  
IMAGE ENHANCEMENT & SEGMENTATION**

Resource person:

 **Dr. AMITHA I C**  
ASSOCIATE PROFESSOR  
COMPUTER SCIENCE AND ENGINEERING

Staff coordinator : Asst. Prof DINLA O K

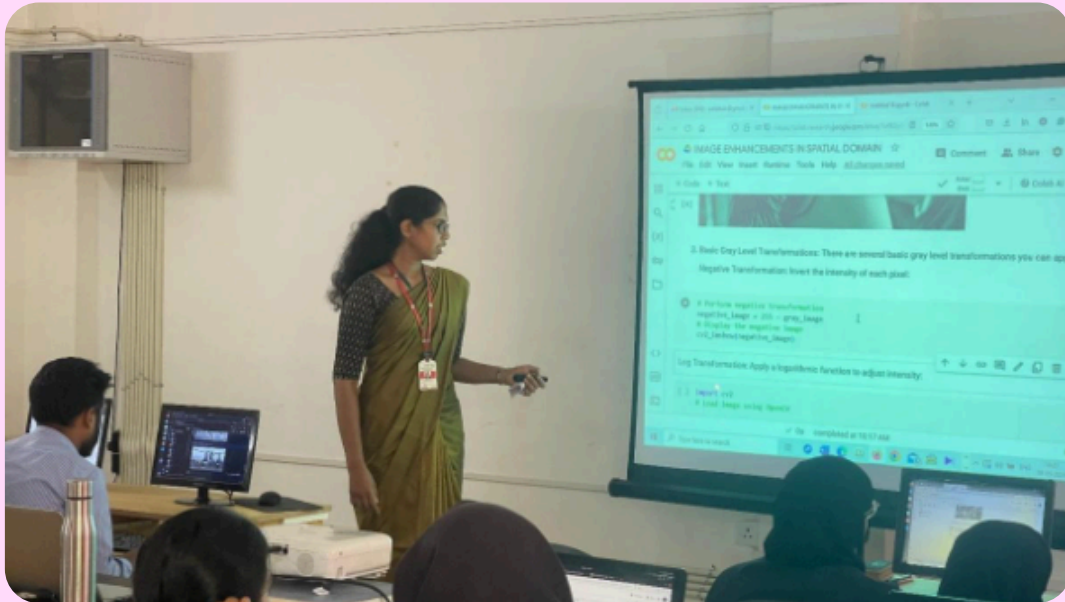
 9TH MAY 2024  9:00 AM - 1:00 PM  CSE LAB 1

## CONCLUSION

The workshop effectively bridged the curriculum gap in image processing practical knowledge. Student feedback indicated high satisfaction with the session content. The program successfully equipped participants with essential skills for applying image enhancement and segmentation techniques to real-world projects.

# HANDS-ON WORKSHOP / CLOSURE OF QL

## SNAPSHOTS OF THE EVENT



# AWARDS

(FACULTY)

**ACADEMIC EXCELLENCE AWARD**



**This Certificate is Presented to**

**Dr. AMITHA I C**

**Associate Professor & HOD**

**Department of Computer Science & Engineering**

**In commendation of achieving Outstanding Result percentages in the academic year 2022-23**

# AWARDS

(FACULTY)

CERTIFICATION



**Mr. Jithin S**

**Assistant Professor  
Dept. of Computer Science & Engineering**

**CERTIFICATION OF ACADEMIC PERFORMANCE**

# ACHIEVEMENTS

(FACULTY)

**NPTEL ONLINE CERTIFICATION**



**Ms. Vaishakhi VK**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

**Completion of Courses:**

- **Introduction to Programming in C**
- **Programming, Data Structures and Algorithms Using Python**

# ACHIEVEMENTS

(FACULTY)

**NPTEL ONLINE CERTIFICATION**



**Ms. Anju G**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

**Completion of Courses:**

- **Python for Data Science**

# ACHIEVEMENTS

(FACULTY)

CERTIFICATION



**Ms. Jithika M**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

- **NPTEL CERTIFICATION OF APPRECIATION**
- **NPTEL ONLINE CERTIFICATION - Operating System Fundamentals**

# ACHIEVEMENTS

(FACULTY)

CERTIFICATION



**Ms. Dinla O K**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

- **NPTEL ONLINE CERTIFICATION - Python for Data Science**

# ACHIEVEMENTS

(FACULTY)

CERTIFICATION



**Ms. Anu C**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

- **NPTEL ONLINE CERTIFICATION - Programming in Java**

# ACHIEVEMENTS

(FACULTY)

CERTIFICATION



**Mr. Jithin S**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

- **NPTEL ONLINE CERTIFICATION : Computer Networks and Internet Protocol**

# ACHIEVEMENTS

(FACULTY)

CERTIFICATION



**Ms. Remya P V**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

- **NPTEL ONLINE CERTIFICATION : Computer Networks and Internet Protocol**

# ACHIEVEMENTS

(FACULTY)

CERTIFICATION



**Ms . Sreerexha K P**

**Assistant Professor**

**Dept. of Computer Science & Engineering**

- **SPOKEN TUTORIAL IIT BOMBAY - CERTIFICATE FOR INVIGILATOR**
- **NPTEL - AICTE Faculty Development Programme - Python for Data Science**

# ACHIEVEMENTS

## (STUDENTS)

### NPTEL ONLINE CERTIFICATION

#### *Python for Data Science*

- Sivanth P K
- Sandra C M
- Akash M
- Sheetal Madhu
- Sanjay M
- Akarsh B
- Anujith VK
- Sreeraj M
- Fathima Zuhara PK
- A K Gokul
- Abhiram P
- A K Rithul
- Drishyap K
- Mohammad Nabil K
- Kiran Dinesh
- Muhammed Fahad VKP
- Akarsh B
- Shahana Shirin
- Sevin M

# ACHIEVEMENTS

## (STUDENTS)

### Programming, Data Structure and Algorithm

- Ayush Sunil Kumar E K
- A K Rithu

### Introduction to Operating System

- Soumyasree C M

### Introduction to Machine Learning

- Drishyap K
- Sheetal Madhu

### Computer Networks and Internet Protocol

- Sheetal Madhu
- Sandra C M

### Demystifying the Brain

- Niharika Ponnambath

# PAPER PRESENTATION / PUBLICATION

SL NO.	Name of students	Publication Type	Publisher	Paper Title	Name of the Journal/ Conference	Year of Publication
1	Drishya P K, Fathimathul Aifa K P, Sandra C, Sheetal Madhu	International Journal	IJNRD	Smart Bin for Waste Management in Urban Areas Using Image Processing	International Journal of Novel Research and Development	July 2024
2	A K Rithul, Akash M, Amarnath T, Drishyap K	International Journal	IJNRD	An AI Enabled Framework for Bacteria Detection from Microscopic Images for Biomedical Applications	International Journal of Novel Research and Development	July 2024
3	Aswathi V K, Aagna P, Devika K P, Fathimathul Shahala M K	International Journal	IJNRD	Eye Mate: A Real-Time Visual Assistant	International Journal of Novel Research and Development	June 2024

# PAPER PRESENTATION / PUBLICATION

SL NO.	Name of students	Publication Type	Publisher	Paper Title	Name of the Journal/ Conference	Year of Publication
4	Neha fazal C K, Sahila Noora Ibrahim, Fathimathul Shibiliya K K, Muhammed Sadhef P M	International Journal	IJNRD	Deepfake Face Mask Dataset for Infectious Disease Erawith Deepfake DEtection Algorithms in Realtime	International Journal of Novel Research and Development	June 2024
5	AK Gokul, Ajal Prem, Akarsh B, Albin Thomas	International Journal	IJNRD	Audioshield :An AIEnabled Fake Audio Detection	International Journal of Novel Research and Development	June 2024
6	Varshanath K M, Ahila Saseendran, Anjeetha Suresh, Nynika Sandeep	International Journal	IJNRD	Advanced AI Security System for ATM	International Journal of Novel Research and Development	June 2024

# PAPER PRESENTATION / PUBLICATION

SL NO.	Name of students	Publication Type	Publisher	Paper Title	Name of the Journal/ Conference	Year of Publication
7	Sidharth Sunil, Sourav S, Sidharth Preman	International Journal	IJNRD	Android Malware Detection Using Machine Learning And Natural Language Processing	International Journal of Novel Research and Development	June 2024
8	Shahana Shirin C P, Fathima P K, Fathima Misba Shareen, Fathima Zuhara P K	International Journal	IJNRD	A Deep Learning-based real time YOGA Assistant For the Visually Impaired	International Journal of Novel Research and Development	June 2024
9	Muhammed Rasi K P, Nuha Salih, Nanditha P, Vyshanvi Rajeevan	International conference	IEEE	Health Monitoring System using IoT with Machine Learning	International conference on smart computing and Communications(ICS CC)_IEEE	August 2023

# INDUSTRIAL VISIT

INDUSTRIAL VISIT at Zephyr Technologies and Solutions Pvt. Ltd. in Mangalore on 16th May 2023 & Shreenath Prestressed Pvt. Ltd. in Assnora, Goa, on 19th May 2023

Event Coordinators:

- Ms. Anju G (AP, CSE)
- Ms. Sreelakshmi Prasad (AP, ASH)

## AIM OF THE PROGRAM

- **Connect Classroom Theory to Real-World Practice:** Demonstrate the direct application of CSE principles in live IT and manufacturing environments
- **Showcase Diverse Engineering Careers:** Highlight the wide spectrum of roles for computer engineers beyond the conventional software sector.

# PROGRAM DETAILS

The industrial visit series commenced with the first leg to Zephyr Technologies and Solutions Pvt. Ltd. in Mangalore on 16th May 2023. A delegation of 53 third-year Computer Science and Engineering students visited the facility, where they were warmly received by the company's CEO, Mr. Samah. This visit was strategically focused on the Information Technology sector, providing a live perspective on software development workflows and project management.

The second visit was conducted at Shreenath Prestressed Pvt. Ltd. in Assnora, Goa, on 19th May 2023. The student group was hosted by Mr. Shino Michael, the Managing Director. This session offered a contrasting exposure to the manufacturing industry, highlighting the application of computer-controlled systems and automation in the design and production of pre-stressed concrete products. Together, the two visits provided a comprehensive overview of the diverse applications of a computer science education.



Fig 2.1 Snapshot of Session attended for machine learning,datascience,software development process

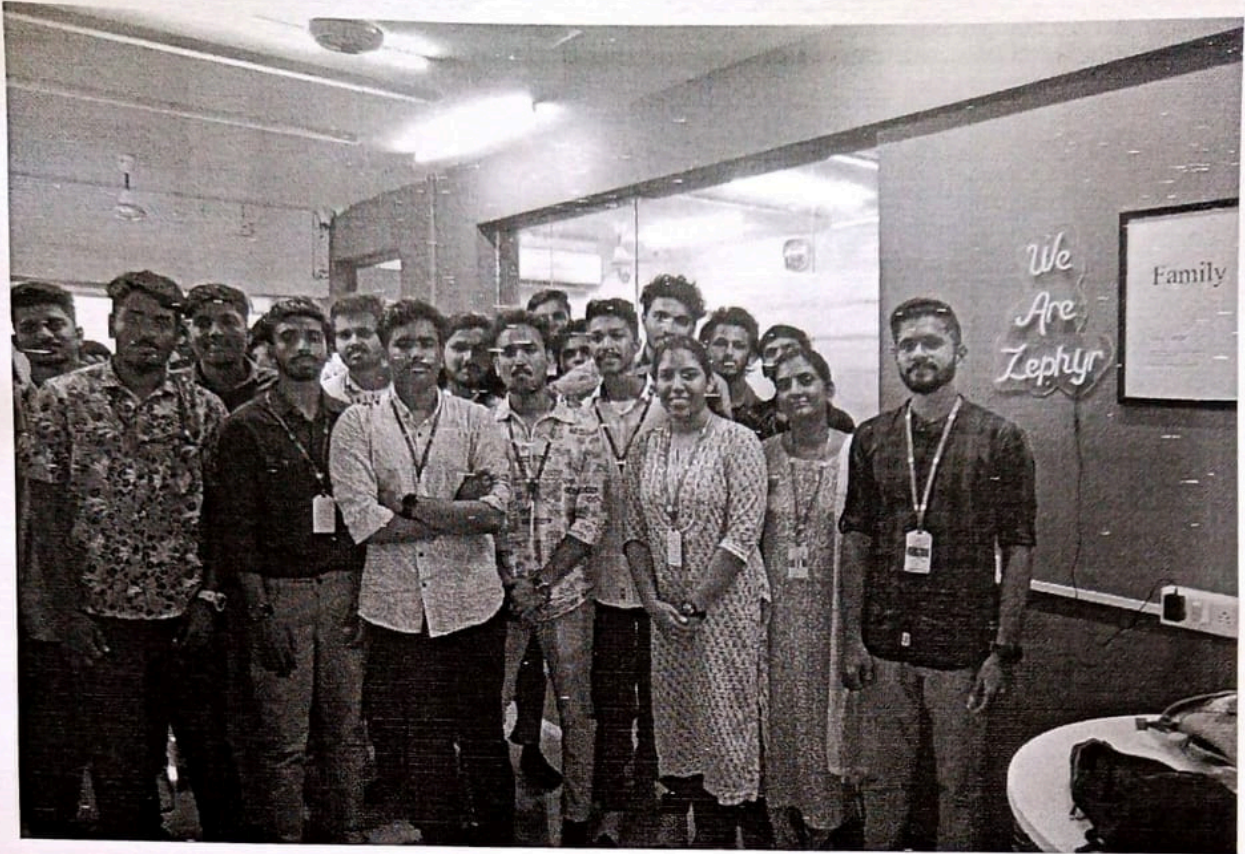


Fig 1.1 Staff and students of S6 CSE at Zephyr Technologies and Solutions, Mangalore



Fig 1.2 Staff and students of S6 CSE at Sreenath Prestressed PVT LTD Goa

## **CONCLUSION**

The industrial visits to Zephyr Technologies and Shreenath Prestressed provided an invaluable platform for students to witness the practical applications of their academic curriculum in two distinct sectors. This exposure not only bridged the gap between theoretical knowledge and real-world implementation but also offered crucial insights into diverse career paths and industry expectations. The department extends its sincere gratitude to both organizations for their hospitality and for contributing significantly to the students professional growth and understanding.

## **ACKNOWLEDGEMENT**

We extend our sincere gratitude to Zephyr Technologies and Solutions Pvt. Ltd., Mangalore, and Shreenath Prestressed Pvt. Ltd., Goa, for graciously hosting our students and providing invaluable industry exposure. We are also deeply thankful to Dr. Shinu Mathew John, Principal, and Ms. Amitha IC, Head of the Department and faculty members for their invaluable support and guidance in making these industrial visits possible.

# ARTICLE

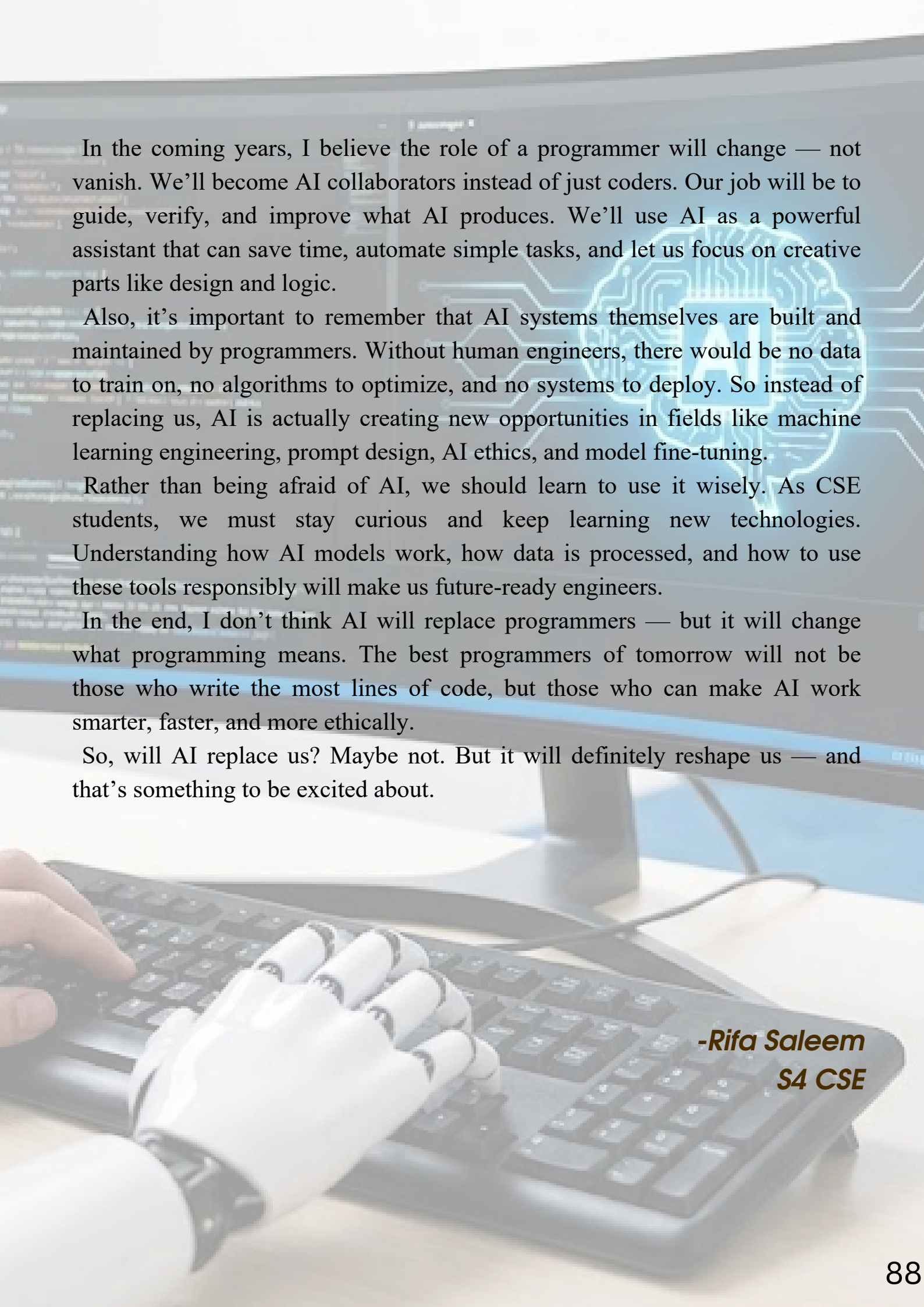
## Will AI Replace Programmers?

In recent years, Artificial Intelligence (AI) has grown from being just a research topic to something that influences almost every field — from healthcare and finance to art and software development. As a CSE student, I've seen how fast AI is advancing, and one question often comes to mind: Will AI replace programmers like us in the future?

At first glance, it seems possible. Today, we already have powerful AI tools like ChatGPT, GitHub Copilot, Amazon CodeWhisperer, and Replit Ghostwriter that can generate working programs just by reading our natural language descriptions. We can simply type, "Write a Python program for bubble sort," and within seconds, AI gives us the full code. It can even debug our errors, explain the logic, and suggest optimizations. For a student, this feels like magic!

The truth is, AI is impressive but still limited. It doesn't truly understand the meaning behind the code it writes. It learns from millions of examples available online and tries to predict the most likely solution. It doesn't have creativity, intuition, or the ability to think critically about the problem's context. It can't talk to a client, understand user needs, or design a project from scratch. It's powerful — but it lacks the human touch.

Programming is not just about typing code. It's about problem-solving. We design algorithms, choose data structures, and think logically about how to make things efficient and secure. We handle errors, test edge cases, and think about performance — things that require human reasoning and decision-making. AI can assist in all these, but it can't decide on its own what is best for a particular situation.



In the coming years, I believe the role of a programmer will change — not vanish. We'll become AI collaborators instead of just coders. Our job will be to guide, verify, and improve what AI produces. We'll use AI as a powerful assistant that can save time, automate simple tasks, and let us focus on creative parts like design and logic.

Also, it's important to remember that AI systems themselves are built and maintained by programmers. Without human engineers, there would be no data to train on, no algorithms to optimize, and no systems to deploy. So instead of replacing us, AI is actually creating new opportunities in fields like machine learning engineering, prompt design, AI ethics, and model fine-tuning.

Rather than being afraid of AI, we should learn to use it wisely. As CSE students, we must stay curious and keep learning new technologies. Understanding how AI models work, how data is processed, and how to use these tools responsibly will make us future-ready engineers.

In the end, I don't think AI will replace programmers — but it will change what programming means. The best programmers of tomorrow will not be those who write the most lines of code, but those who can make AI work smarter, faster, and more ethically.

So, will AI replace us? Maybe not. But it will definitely reshape us — and that's something to be excited about.

**-Rifa Saleem**  
**S4 CSE**

## Human Robot Collaboration in Industrial automation

Human-robot collaboration is reshaping industrial automation by merging the precision and endurance of machines with the creativity and adaptability of human workers. Traditionally, robots operated in isolated zones, separated by safety barriers to prevent accidents. Today, collaborative robots—known as cobots—are designed to safely share workspaces with humans, enabling a more integrated and dynamic approach to manufacturing and service tasks. These cobots take on repetitive, hazardous, or physically strenuous duties, allowing human counterparts to focus on complex problem-solving, innovation, and decision-making. This shift not only boosts productivity but also enhances workplace safety and job satisfaction.

As technology evolves, cobots are becoming increasingly intelligent and intuitive. Equipped with advanced sensors, machine learning algorithms, and natural language processing capabilities, modern robots can interpret gestures, respond to voice commands, and adapt to changing environments. This makes interactions more seamless and fosters a sense of trust and cooperation between humans and machines. Industries ranging from automotive and electronics to healthcare and logistics are witnessing the transformative impact of these partnerships, where robots assist in tasks like assembly, patient care, and inventory management.

However, the rise of human-robot collaboration also brings forth critical questions about ethics, job displacement, and the future of work. While cobots are designed to augment human capabilities, there is ongoing debate about their potential to replace certain roles, especially in labor-intensive sectors. Addressing these concerns requires a proactive approach—investing in workforce reskilling, designing human-centric robotic systems, and establishing clear ethical guidelines. Ultimately, the goal is to create a collaborative ecosystem where technology empowers people, enhances their skills, and contributes to a more efficient, inclusive, and innovative workplace.

*-Jibin P V*  
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# Quantum Computing: Redefining the Boundaries of Computation

The field of computer science is constantly evolving, yet few innovations have generated as much excitement as quantum computing. Unlike classical computers that rely on bits to represent data as 0 or 1, quantum computers use qubits, which can exist as 0, 1, or both simultaneously through a property known as superposition. This fundamental difference gives quantum computers the ability to perform complex calculations much faster than traditional systems, offering revolutionary potential across industries.

Quantum computing is not just about speed but also about solving problems that are impossible for classical computers to handle efficiently. For instance, modern encryption systems rely on the difficulty of factoring large numbers, a task that could take classical computers thousands of years. Quantum algorithms such as Shor's algorithm can solve this problem in a fraction of the time, posing both a challenge and an opportunity for cybersecurity experts. Researchers are now exploring post-quantum cryptography, which aims to develop encryption techniques resistant to quantum attacks.

In addition to security, quantum computing has vast applications in fields like medicine, finance, and artificial intelligence. In pharmaceuticals, quantum models can simulate molecular structures with incredible accuracy, speeding up drug discovery. In finance, quantum algorithms can optimize portfolio management and risk assessment. In AI, they can accelerate machine learning processes by handling complex data patterns that classical systems struggle to process.

However, quantum computing is still in its early stages. Qubits are extremely sensitive to environmental disturbances, which can cause errors known as decoherence. Maintaining stability requires ultra-cold temperatures and advanced error correction methods, making large-scale quantum systems difficult to build. Major tech companies and research institutions are investing heavily in overcoming these limitations to make quantum computing more practical and accessible.

In conclusion, quantum computing stands as one of the most transformative technologies on the horizon. It challenges long-standing concepts of computation and opens up possibilities once thought unreachable. Though there are still hurdles to overcome, continued innovation and research promise a future where quantum computers play a central role in solving humanity's most complex and data-intensive problems.

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