

# THE GEEKZONE BYTE

SNIPPETS OF CODE, CREATIVITY,  
AND CAMPUS LIFE

AY 2024-25



**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'25

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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



## Principal's 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 the CSE department, 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 endeavors.

*Er. Rijo Jose Thomas*

CEO, STM

# MESSAGE



I'm delighted to share this edition of "THE GEEKZONE BYTE: Snippets of Code, Creativity, and Campus Life," which highlights our CSE department's latest achievements. Our students have excelled academically, won prizes, presented papers, and gained valuable insights from industrial visits. Our faculty have also been recognized with awards and made great contributions through research and events. This issue is packed with insightful articles, creative works, and fresh ideas from our talented students. Congratulations to everyone involved, and let's keep up the fantastic work!

*Dr. Amitha IC*

Asso. Prof. & HOD CSE

# EDITORIAL BOARD



It is my pleasure to present this edition of our department magazine, THE GEEKZONE BYTE, which stands as a testament to the vibrancy and diversity of our academic community. This issue features a comprehensive collection of highlights - from recognizing academic excellence to documenting major events and award ceremonies. It also reflects our commitment to innovation through student paper presentations, informative industrial visits, and the creative expressions showcased in our Student Corner. Each page exemplifies the dedication, talent, and passion that define our institution.

Wishing you a meaningful and engaging reading experience

A handwritten signature in cursive script that reads "Ms. Anju G".

Asst. Prof, CSE

# EDITORIAL BODY

## **Staff Coordinator**

Ms. Anju G (AP, CSE)

## **Student Members**

Mr. Sivanth P K (S8 CSE)

Mr. A K Rithul (S8 CSE)

Mr. Muhammed Hadhif Manoly (S8 CSE)

# FACULTIES



Dr. Amitha I C  
Asso. Professor & HOD, CSE



Mr. Madhu K  
Asst. Professor



Mr. Jithin S  
Asst. Professor



Ms. Anu C  
Asst. Professor

# FACULTIES



Ms. Anju G  
Asst. Professor



Ms. Dinla O K  
Asst. Professor



Ms. Jithika M  
Asst. Professor



Ms. Vaishaki V K  
Asst. Professor



Ms. Saritha Narayanan  
Asst. Professor

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# TOPPERS

## 2021-2025 Batch



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

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

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Geekzone

**DEPARTMENT OF COMPUTER SCIENCE  
AND ENGINEERING**

*Congratulations*

**S8 TOPPERS**

Overall Result  
**88.13%**



Sheetal Madhu  
SGPA: 9.65



Sandra C. M.  
SGPA: 9.15



Gopika Pradeep  
SGPA: 9.03



Aysha Shama  
SGPA: 8.94



Anamika K.  
SGPA: 8.85



Rena Haris  
SGPA: 8.85



Najwa  
SGPA: 8.76



Nasla Safiya  
SGPA: 8.76



Muhammed Hadhiif  
SGPA: 8.74



Fathimathul Aifa  
SGPA: 8.71



Sneha K. K.  
SGPA: 8.56



Drishyap K.  
SGPA: 8.44



A. K. Rithul  
SGPA: 8.41



Ayisha Zoomi  
SGPA: 8.38



Sayanth K.  
SGPA: 8.38



Shivanth P. K.  
SGPA: 8.29



Akash M.  
SGPA: 8.26



Fathima Fiza  
SGPA: 8.26



Gopika Jayan  
SGPA: 8.21



Drupad M. K.  
SGPA: 8.15



Sanjay Krishna  
SGPA: 8.15



Sravana T.  
SGPA: 8.09



Vyshagh C.  
SGPA: 8.09



Hridya Raj P.  
SGPA: 8.09



Anjana Pramod  
SGPA: 8.06



Pournami S.  
SGPA: 8.03



Theja Murali  
SGPA: 8.03

# TOPPERS

## 2021-2025 Batch



St. Thomas College of Engineering & Technology

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### Congratulations!

### S7 TOPPERS

92%  
OVERALL RESULT



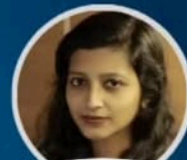
AK RITHUL

SGPA  
9.13



SHEETAL MADHU

SGPA  
9.07



GOPIKA PRADEEP

SGPA  
9.03



AYSHA SHAMA MUSAMIL

SGPA  
8.87



RENA HARIS V P

SGPA  
8.77



SANDRA C M

SGPA  
8.65



SNEHA KK

SGPA  
8.57



DRISHYAP K

SGPA  
8.53



SRAVANA T

SGPA  
8.53



AKASH M

SGPA  
8.5



NIHEL VINOD MAROLI

SGPA  
8.47



FATHIMA FIZA C P

SGPA  
8.4



FATHIMATHUL AIFA K D

SGPA  
8.4



SAYANTH K

SGPA  
8.37



SIVANTH P K

SGPA  
8.37



VYSHACH C

SGPA  
8.37



NAJWA

SGPA  
8.3



NASLA SAFIYA K

SGPA  
8.27



MUHAMMAD HADHRIF MAROLI

SGPA  
8.23



ABHINAYA K

SGPA  
8.1



AYISHA ZOOMI

SGPA  
8.07



DRUPAD M K

SGPA  
8.03



Geekzone



SANDAY KRISHNA NELLISADA

SGPA  
8

# TOPPERS

## 2022-2026 Batch



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

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**S6 TOPPERS**

**OVERALL  
RESULT**

**75%**



Jibin P V  
SGPA: 9.63



Samantha Shine Jyothirmayi  
SGPA: 9.17



Rhuthoshika K  
SGPA: 9.11



Rifa Saleem  
SGPA: 9.04



Meghna C  
SGPA: 8.89



Ashika Raveendran  
SGPA: 8.8



Muhammed Fayiz V C  
SGPA: 8.59



Jagan K K  
SGPA: 8.48



Mevin R Pradeep  
SGPA: 8.48



Wajiya M P  
SGPA: 8.43



Sredha Dhanaraj  
SGPA: 8.24



Akshara K  
SGPA: 8.2



Chandana S Krishna  
SGPA: 8.2



Mamya P V  
SGPA: 8.13



Keerthana K  
SGPA: 8.11



Rasha Valsan  
SGPA: 8.11



Abhinav K  
SGPA: 8.07



K Arjun Marayanan  
SGPA: 8.07



**Congratulations!**

# TOPPERS

2022-2026 Batch



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

Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala

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## Congratulations

### S5 TOPPERS



RHUTHOSHIKA K (SGPA: 9.37)



JIBIN PV(SGPA: 9.33)



SAMANTHA SHINE JYOTHIRMAI(SGPA:9.3)



RIFA SALEEM PUTHAN  
KULATHIL(SGPA:9.15)



NIRANJ CN(SGPA: 8.54)



MEGHNA C(SGPA: 8.5)



JAGAN KK(SGPA: 8.46)



DEVATHMAJ A KIYATHAN  
(SGPA: 8.39)



NEVIN R PRADEEP(SGPA:8.35)



ASHIKA  
RAVEENDRAN(SGPA:8.22)



CHANDHANA S KRISHNA  
(SGPA: 8.22)



AYSHA PP(SGPA: 8.2)



AKSHARA K(SGPA: 8)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

# TOPPERS

## 2023-2027 Batch



**St. Thomas College of Engineering & Technology**  
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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### S4 TOPPERS 2023-27 BATCH



Geekzone

**78%**  
OVERALL  
RESULT

*Congratulations!*



**FIDHA FATHIMA T**  
SGPA : 9.27



**SANKEERTHANA P**  
SGPA : 9.23



**ANUSREE PRAKASHAN**  
SGPA : 8.59



**ANJITHA V**  
SGPA : 9.18



**SOUMMYAKEERTHI KS**  
SGPA : 9.18



**AMEGHA S**  
SGPA : 9.14



**GOPIKA T K**  
SGPA : 8.50



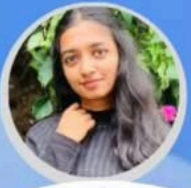
**YASIN VM**  
SGPA : 8.45



**SAYAND A N**  
SGPA : 8.41



**SHYAMJITH M**  
SGPA : 9.09



**KRISHNA SAJEEVAN**  
SGPA : 9



**SUHADHA K V**  
SGPA : 8.86



**SWETHA V**  
SGPA : 8.36



**FATHIMA SABA M**  
SGPA : 8.32



**RAYA FATHIMA**  
SGPA : 8.27



**ANJANA RAJ R**  
SGPA : 8.82



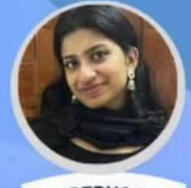
**ANANYA MOHAN**  
SGPA : 8.73



**MUHAMMAD NIHAL**  
SGPA : 8.73



**FATHIMATH SAHDIYA C**  
SGPA : 8.27



**HREDYA M**  
SGPA : 8.05



**ASRITHA S NATH**  
SGPA : 8.05

# TOPPERS

## 2023-2027 Batch



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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## S3 TOPPERS

*Congratulations!*

OVERALL  
**70%**  
RESULT



**ANJITHA V**  
SGPA : 9.64



**KRISHNA SAJEEVAN**  
SGPA : 8.59



**MOHAMMED AZEEM**  
SGPA : 8.59



**GOPIKA T K**  
SGPA : 8.91



**SANKEERTHANA P**  
SGPA : 8.91



**MUHAMMAD NIHAL**  
SGPA : 8.45



**AMECHA S**  
SGPA : 8.45



**ANANYA MOHAN**  
SGPA : 8.27



**FIDHA FATHIMA T**  
SGPA : 8.86



**SUHADHA K V**  
SGPA : 8.77



**SHYAMJITH M**  
SGPA : 8.77



**YASIN VM**  
SGPA : 8.05



**FATHIMA SABA M**  
SGPA : 8.05



**SOUMYAKEERTHI KS**  
SGPA : 8.77



**FATHIMATH SAHDIYA C**  
SGPA : 8.73



**ANUSREE PRAKASHAN**  
SGPA : 8



**Geekzone**  
Empowering Students and Educators by Innovation



# EVENT ORGANIZATION

# EXPERT TALK

## ASSOCIATION INAUGURATION AND EXPERT TALK ON "INNOVATION, ENTREPRENEURSHIP AND FUNDING FOR TECHNICAL PROJECTS"

**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 & DATA SCIENCE  
**PRESENTS**  
EXPERT TALK ON  
**TOOLS AND TECHNIQUES IN ETHICAL HACKING**  
RESOURCE PERSON  
**DR. VINOD KUMAR SHUKLA**  
HEAD OF ACADEMICS  
SCHOOL OF ENGINEERING  
ARCHITECTURE INTERIOR DESIGN  
AMITY UNIVERSITY DUBAI, UAE

06 SEPTEMBER 2024 03:30 PM - 04:30 PM SEMINAR HALL 2  
FACULTY COORDINATOR : DR. AMITHA I C  
HOD, CSE

IN ASSOCIATION WITH  
Geekzone DATASPHERE

Date of Event: 06/09/2024

Event Coordinator: Dr. Amitha I C  
(Asso. Prof CSE)

Aim of the Program:

The aim of the program was to provide a comprehensive understanding of ethical hacking and to discuss the various tools and methodologies used in the field. The ultimate goal was to familiarize students with how ethical hackers work to secure systems by highlighting the legal and ethical boundaries of hacking, while also encouraging awareness of cybersecurity and data protection

### Program Details:

The Department of Computer Science and Engineering at St. Thomas College of Engineering & Technology conducted an Expert Talk titled "Tools and Techniques in Ethical Hacking" on September 06, 2024. The talk was held from 03:30 pm to 4:30 pm and was conducted in an online mode via Google Meet. The resource person was Dr. Vinod Kumar Shukla, the Head of Academics at the School of Engineering & Architecture Interior Design, Amity University, Dubai, UAE.

The event was specifically targeted at students from the S3 CSE and CD batches. The talk primarily focused on educating the youth about the various hidden aspects of the Cyber World and equipping them with essential cybersecurity practices to protect themselves in today's interconnected world. The talk's agenda included a welcome address, introduction of the chief guest, the main expert talk, and a vote of thanks. Student feedback indicated that students found the entire session very useful, with more than 60% agreeing that the content positively influenced their views towards the Tools

# EXPERT TALK

## Conclusion:

The workshop was highly interactive and successful in providing a comprehensive understanding of website development. The participants gained insights into the practical aspects of web development, including the tools, techniques, and the process of hosting a website. Based on feedback, the session was perceived as very useful. The program served as an excellent introduction to this essential field for computer engineering students.

## SNAPSHOTS OF THE EVENT



# EXPERT TALK

## SEMINAR ON INTRODUCTION TO NUMBER THEORY CONCEPTS



**St. Thomas College of Engineering & Technology**  
Vellilode, Sivaparam 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

EXPERT TALK ON

### INTRODUCTION TO NUMBER THEORY CONCEPTS

Resource person:



**Ms. SUBINA K**

Assistant Professor

Department of Applied Science and Humanities

Staff coordinator :

**Ms. JITHIKA M**

Assistant Professor | CSE



25th Oct 2024



11:35 AM - 12:25 PM



LH 3

**Date of Event: 25/10/2024**

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

**Aim of the Program:**

To familiarize B.Tech 4th year CSE students with number theory fundamentals and their application in cryptography.

### **Program Details:**

The Department of Computer Science and Engineering (CSE) organized this one-hour seminar for B.Tech 4th year CSE students on 25th October 2024. Ms. Subina K was the resource person, and Jithika M served as the staff coordinator. The interactive session was designed to introduce core number theory concepts, which are essential for students to acquire the necessary skills for cryptographic applications. The seminar explicitly aimed to address knowledge gaps related to Course Outcomes (CO2, CO3, CO4, CO5) of the Security in Computing course.

# EXPERT TALK

## Conclusion:

The seminar successfully achieved its objective by effectively introducing key number theory concepts and illustrating their direct relevance to the field of cryptography. Through this focused session, the department ensured that students were better equipped to understand the mathematical foundations of security. The program was considered valuable for its contribution to enhancing student proficiency

## SNAPSHOTS OF THE EVENT



# INDUSTRIAL VISIT

## EXPLORING THE INDUSTRY: A JOURNEY IN TO KELTRON



**St. Thomas College of Engineering & Technology**  
Vellilode, Sivapuram PO. Mattanur. Kannur District, Kerala  
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Department of Computer science and  
Engineering & Data Science

Organizes

Exploring the industry:  
A journey into KELTRON

Industrial Visit



**Keltron Nagar, Kannur**  
For S3 CSE and S3 CD students

**Date: October 26, 2024**

**Time: 9:30 AM**

Staff Coordinators:

Ms. JITHIKA M  
Ms. DINLA O K

Student Coordinators:

YASHIKA PRASHANTH (S3-CSE)  
ADITHYA SUJAYAN (S3-CD)

**Date of Event: 26/10/2024**

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

**Aim of the Program:**

The aim of the industrial visit was to provide second-year Computer Science and Data Science students with practical exposure and a deeper understanding of real-world industrial operations, bridging the gap between theoretical knowledge and industry practices



IN ASSOCIATION WITH



Geekzone

### **Program Details:**

The industrial visit to Keltron Component Complex Ltd in Kannur was organized by the Department of Computer Science and Engineering and Data Science in association with GEEKZONE and Datasphere on October 26, 2024, from 9:30 AM to 1:00 PM. The event was coordinated by Ms. Dinla O K and Ms. Jithika M, with support from student coordinators Ms. Yashika Prashanth (S3 CSE) and Ms. Adithya Sujayan (S3 CD). A total of 80 students from S3 CSE and S3 CD participated in the visit, which was fully funded by student contributions.

# INDUSTRIAL VISIT

## Conclusion:

The industrial visit successfully provided students with valuable insights into industrial workflows and technologies, achieving its objectives of enhancing practical knowledge and fostering industry-academic collaboration. While feedback indicated that some students desired more direct relevance to software and data science fields, the majority reported a positive and informative experience. The visit effectively supported the attainment of Program Outcomes PO1 and PO11, Program Specific Outcome PSO2, and Program Educational Objective PEO1, demonstrating its overall success in exposing students to real-world engineering environments.

## SNAPSHOTS OF THE EVENT



## 3 DAYS FDP ON OUTCOME BASED EDUCATION AND NBA ACCREDITATION PROCESS



**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 &  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
ORGANIZES  
FACULTY DEVELOPMENT PROGRAMME ON  
OUTCOME BASED EDUCATION  
AND NBA ACCREDITATION PROCESS

RESOURCE PERSONS

 <b>DR. X. SUSAN CHRISTINA</b> PROFESSOR & PRINCIPAL M.A.M COLLEGE OF ENGG. & TECH. TIRUCHIRAPPALLI	 <b>DR. J. WILLIAM</b> PROFESSOR & PRINCIPAL ROEVER ENGG. TIRUCHIRAPPALLI	 <b>DR. P. SOORAJ</b> PROFESSOR, DEPT. OF ME GCE KANNUR
 <b>DR. SHINU MATHEW JOHN</b> PROFESSOR & PRINCIPAL ST. THOMAS COLLEGE OF ENGG. & TECH. MATTANNUR, KANNUR	 <b>DR. ANETHA MARY SOMAN</b> PROFESSOR & ACADEMIC COORDINATOR ST. THOMAS COLLEGE OF ENGG. & TECH. MATTANNUR, KANNUR	

**CONTACT:**  
ANJANA K P ( AP, CSE) : 8891233144  
ARYA C ( AP, ECE) : 8111942325  
REGISTRATION LINK : <https://forms.gle/TTSofFmezbz2vm649>

**1st , 2nd & 4th Nov 2024**      **SEMINAR HALL 1**

**Date of Event:** 01/11/2024, 02/11/2024 and 04/11/2024

**Event Coordinators:** Dr. Amitha I C (Asso. Prof CSE), Ms. Anjana K P (AP, CD), Ms. Arya C (AP, ECE)

**Aim of the Program:**

The aim of the Faculty Development Program was to foster a deeper understanding of Outcome-Based Education (OBE) among faculty members and equip them with a thorough knowledge of the NBA accreditation requirements, enabling them to effectively implement these standards in their respective institutions.

## Program Details:

The 3-day FDP on "Outcome Based Education and NBA Accreditation Process" was held on 1st, 2nd, and 4th November 2024 at St. Thomas College of Engineering & Technology, Kannur. It was jointly organized by the Department of Computer Science & Engineering and the Department of Electronics & Communication Engineering.

The program featured external experts Dr. X. Susan Christina, Dr. J. William, and Dr. P. Sooraj, who covered key topics such as OBE implementation, all NBA accreditation criteria, CO-PO attainment, and SAR preparation. Internal faculty, including the Principal and HODs, also conducted sessions on facilities, course design, and audit files. The event had 55 participants from various engineering colleges.

## Conclusion:

The three-day FDP successfully provided participants with a comprehensive understanding of OBE principles and the NBA accreditation process. The sessions, led by experienced resource persons, equipped faculty members with practical knowledge and strategies to align their institutions with NBA standards. The program was well-received, as indicated by positive feedback, and was deemed informative and motivating, empowering attendees to contribute effectively to their institutions' quality enhancement and accreditation goals.

## SNAPSHOTS OF THE EVENT




# FDP



# EXPERT TALK


## EXPERT TALK ON INTRODUCTION TO 5G NR AND FEATURES OF 6G



**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 &  
Department of Electronics and Communication Engineering  
jointly presents

Expert Talk on  
**Introduction to 5G NR and features of 6G**




**Dr. J. William**  
Principal & Professor,  
Department of ECE,  
Roever Engineering College,  
Tiruchirappalli, Tamilnadu

**01 November, 2024**  
10:30 AM - 03:30 PM

**Lecture Hall 2**

In association with



Staff Co-ordinators  
**Sreetha Sreedhar K (AP, ECE)**  
**Saritha Narayanan (AP, CSE)**

**Date of Event: 01/11/2024**

**Event Coordinators: Ms. Saritha Narayanan (AP, CSE) and Ms. Sreetha Sreedhar K (AP, ECE)**

**Aim of the Program:**

To provide a comprehensive understanding of 5G New Radio (NR) technology and its features, while looking ahead to the potential evolution of 6G, including ultra-high speed, AI integration, and applications like autonomous systems and holographic communication.

### **Program Details:**

The Expert Talk on "Introduction to 5G NR and Features of 6G" was jointly organized by the Departments of CSE and ECE on November 1, 2024. The resource person was Dr. J. William, Principal & Professor from the Department of ECE, Roever Engineering College, Tiruchirappalli. The event was attended by S7 CSE and ECE students. Key topics covered included advanced network capabilities, ultra-low latency, energy-efficient designs, and the integration of AI in communication systems. The program provided a detailed exploration of 5G NR fundamentals and an overview of cutting-edge 6G technologies, using detailed case studies, engaging Q&A sessions, and practical insights to bridge the gap between academic learning and real-world advancements.

# EXPERT TALK

## Conclusion:

The joint expert talk was highly successful, providing S7 CSE and ECE students with a comprehensive and in-depth understanding of both 5G New Radio capabilities and the visionary advancements of 6G technology. The interactive session, led by Dr. J. William, effectively bridged the gap between academic theory and real-world applications in areas like AI integration and ultra-low latency.

## SNAPSHOTS OF THE EVENT




# HANDS-ON WORKSHOP

## MASTERING LATEX SOFTWARE: A SCIENTIFIC DOCUMENTATION APPROACH

**St. Thomas College of Engineering & Technology**  
Vellilode, Sivapuram PO, Mattanur, Kannur District, Kerala  
Approved by AMCTE New Delhi, Govt. Of Kerala and Affiliated to APJ Abdul Kalam Technological University


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
PRESENTS  
**MASTERING L<sup>A</sup>T<sub>E</sub>X SOFTWARE: A SCIENTIFIC  
DOCUMENTATION APPROACH**


RESOURCE PERSONS

  
CSE LAB 1  
**Ms. DINLA O K**  
AP, CSE

  
**Ms. ANU C**  
AP, CSE

 **7, 9 & 10 JANUARY 2025**




 **01:30 PM - 04:30 PM**

 **CSE Lab 1**

STAFF COORDINATOR  
**Ms. DINLA O K, AP, CSE**

STUDENT COORDINATORS  
**Ms. AYSHA SHAMA M  
Mr. MUHAMMED HADHIF**

IN ASSOCIATION WITH

**Date of Event: 07/01/2025, 09/01/2025 & 10/01/2025**

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

**Aim of the Program:**

To provide comprehensive theoretical and hands-on practical experience in LaTeX for scientific documentation, enabling students to create professional technical documents. The program specifically aimed to bridge the curriculum gap in technical documentation skills and empower participants to produce standardized documents following IEEE formats for academic and research purposes.

**Program Details:**

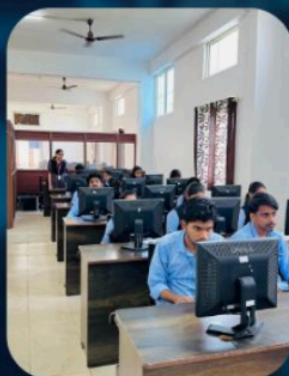
The Department of Computer Science and Engineering organized this three-day workshop in association with GEEKZONE, IEDC, and FossCell for S6 CSE, S8 ME, and S6 ME students. Conducted in CSE Lab by Ms. Anu .C (Asst.prof CSE) from 1:30 PM to 4:30 PM, the workshop covered essential LaTeX topics including introduction, basic commands, figures, tables, equations, and Beamer presentations. The session successfully contributed to the attainment of Course Outcome CO-2 of CST 309 - Management of Software Systems.

# HANDS-ON WORKSHOP

## Conclusion:

The workshop successfully introduced students to LaTeX, providing a solid foundation for creating professional documents. It effectively bridged a curriculum gap by equipping students with the skills to prepare standardized documentation, such as project and seminar reports, following IEEE formats. The program was highly effective, enhancing students' understanding and capabilities in technical documentation.

## SNAPSHOTS OF THE EVENT



# HANDS-ON WORKSHOP

## INTRODUCTION TO PROJECT DEVELOPMENT

The poster features a dark blue background with a faint 'PROJECT MANAGEMENT' watermark. At the top, it displays the logo and name of St. Thomas College of Engineering & Technology, along with its address and affiliations. Below this, it identifies the organizing department and its association with CSI. The main title 'Introduction to Project Development' is prominently displayed in yellow. Three resource persons are listed with their photos and names: Mr. Aswin Ratheesh D K, Mr. Crisbin Joseph, and Mr. Abhishek U K, all from S8 CSE. A staff coordinator, Ms. Vaishakhi V K, is also mentioned. The event details include the date (15th January 2025), time (01:30 PM - 04:30 PM), and location (Lecture Hall 2). Student coordinators Mr. Mohammed Riyad and Ms. Rhuthoshika K are also listed. Logos of the college and CSI are at the bottom.

**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  
In Association With CSI  
Presents

### Introduction to Project Development

RESOURCE PERSONS

**Mr. Aswin Ratheesh D K**  
S8 CSE

**Mr. Crisbin Joseph**  
S8 CSE

**Mr. Abhishek U K**  
S8 CSE

**Student Coordinators**  
Mr. Mohammed Riyad (S6 CSE)  
Ms. Rhuthoshika K (S6 CSE)

**Staff Coordinator**  
Ms. Vaishakhi V K (Asst. prof. CSE)

15<sup>TH</sup> JANUARY 2025  
01:30 PM - 04:30 PM  
LECTURE HALL 2

**Date of Event:** 15/01/2025

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

**Aim of the Program:**

The program's aim was to give students an idea of IDEs, datasets, IOT, and the hardware required to develop an academic project.

**Program Details:**

The event was a Seminar , organized by the Department of Computer Science and Engineering in association with CSI and GeekZone . The key objectives included learning various development tools (Google Colab, Jupyter Notebook, VS Code, Android Studio, and Arduino IDE), understanding how to work with datasets, exploring IoT, using different sensors, and applying knowledge of hardware programming (Arduino, ESP32, and Raspberry Pi). Resource persons Mr. Abhishek U K, Mr. Aswin Ratheesh D K, and Mr. Crisbin Joseph (all students from S8 CSE) covered topics like Datasets, IoT, Sensors, Arduino IDE, VS Code, Android Studio, and AI tools.

# HANDS-ON WORKSHOP

## Conclusion:

The program successfully achieved its expected outcome. Students gained an idea for the development of their academic projects. The analysis summary indicates students received hands-on experience with development tools, explored IoT and sensors, and were introduced to AI & Machine Learning for real-world applications. Feedback from the respondents was very positive, confirming that the session provided valuable insights or skills.

## SNAPSHOTS OF THE EVENT



# EXPERT TALK

## UNVEILING INNOVATION: A DEEP DIVE INTO PATENT FILING PROCESS

 **St. Thomas College of Engineering & Technology**  
SIVAPURAM, MATTANUR, KANNUR DIST  
✉ stthomaskannur@gmail.com 🌐 stthomaskannur.ac.in

*Expert Talk on*  
**Unveiling Innovation**  
*A deep dive into*  
**Patent Filing process**

 **February 17**  
 **SEMINAR HALL 1 & 2**  
 **09 : 00 AM**

**Dr. N. S. Sreekanth**  
Associate Professor & HOD (IT)  
Kannur University

IN ASSOCIATION WITH  
 **INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of IIT Initiative)

**Staff Coordinators:**

<b>Asst Prof. Sreetha Sreedhar K</b> (Staff advisor, S8 ECE)	<b>Asst Prof. Deepthi K</b> (Staff advisor, S8 CE)	<b>Asst Prof. Saritha Narayanan</b> (Staff advisor, S8 CSE)	<b>Asst Prof. Adithyaraj C P</b> (Staff advisor, S8 ME)
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**Date of Event: 17/02/2025**

**Event Coordinators: Ms. Saritha Narayanan (AP, CSE), Ms. Sreetha Sreedhar K (AP, ECE), Ms. Deepthi K (AP, CE), Mr. Adithyaraj C P (AP, ME)**

**Aim of the Program:**

To equip students and faculty with foundational and practical knowledge about the patent filing process, fostering a culture of innovation, intellectual property awareness, and research commercialization in technical education.

# EXPERT TALK

## Program Details:

The Departments of Computer Science, Electronics & Communication, Mechanical, and Civil Engineering jointly organized this online expert talk in association with the Institution's Innovation Council (IIC). The session was conducted by Dr. N. S. Sreekanth, Associate Professor & HOD (IT) at Kannur University, via Google Meet from 9:00 AM to 10:30 AM. Hosted in Seminar Halls 1 and 2, the talk covered the procedural, legal, and strategic aspects of patent filing in India, including patent document structure, application steps, and types of patents

## Conclusion:

The Departments of Computer Science, Electronics & Communication, Mechanical, and Civil Engineering jointly organized this online expert talk in association with the Institution's Innovation Council (IIC). The session was conducted by Dr. N. S. Sreekanth, Associate Professor & HOD (IT) at Kannur University, via Google Meet from 9:00 AM to 10:30 AM. Hosted in Seminar Halls 1 and 2, the talk covered the procedural, legal, and strategic aspects of patent filing in India, including patent document structure, application steps, and types of patents

## SNAPSHOTS OF THE EVENT



# HANDS-ON SESSION

## INTRODUCTION TO MACHINE LEARNING

**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 Univers

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
PRESENTS  
**Introduction to Machine Learning**  
A Hands-on Session  
for  
S6 CSE SIG Students  
Resource Persons:

  
Akash M  
(S8, CSE, STM)

  
Rithul A K  
(S8, CSE, STM)

 3:00 pm - 4:30 pm

 Data Science Lab 2

 17/03/25

IN ASSOCIATION WITH  **Geekzone**

**Staff Coordinators**  
Ms. Anu C (AP, CSE)  
Ms. Jithika M (AP, CSE)

**Date of Event: 17/03/2025**

**Event Coordinators: Ms. Anu C (AP, CSE) and Ms. Jithika M (AP, CSE)**

**Aim of the Program:**

The aim was to provide an introductory theoretical understanding and practical experience in Machine Learning. This was intended to enable students to explore AI-based technologies and apply foundational Machine Learning models.

**Program Details:**

The hands-on session was organized by the Department of Computer Science and Engineering for the S6 CSE SIG students. The session was conducted in association with the Department's association, Geekzone. Key highlights of the session included an Introduction to Machine Learning, Supervised vs Unsupervised Learning, a Real-time demonstration using Python, the use of image datasets for classification, and a Q&A and mini-task for students.

# HANDS-ON SESSION

## Conclusion:


The session was highly successful and well-received by the S6 CSE students. Furthermore the participants expressed interest in attending advanced workshops on Machine Learning or AI in the future. The overall feedback indicated satisfaction with the session's structure and the simple, understandable manner in which the resource persons explained the concepts. The expected outcome, providing students with an idea for the development of their academic projects, was successfully met.

## SNAPSHOTS OF THE EVENT



# NATIONAL CONFERENCE

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


 **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 CONFERENCE  
ON**





***RECENT ADVANCEMENTS IN ENGINEERING  
& TECHNOLOGY '25***

**21<sup>ST</sup>-22<sup>ND</sup>** **MARCH**

**RAET**  
RECENT ADVANCEMENTS IN  
ENGINEERING AND TECHNOLOGY

  
**Dr. Nobi EP**  
Scientist & Program Officer,  
Deep Ocean Mission  
MoES, Government of India  
**CHIEF GUEST**

  
**Dr. Jibi G Thanikkal**  
Project Scientist  
(NCMRWF)  
MoES, Government of India  
**GUEST OF HONOUR**

# NATIONAL CONFERENCE

Date of the event: 21/03/2025 & 23/03/2025

## Organizing Secretaries

- **Dr. Shinu Mathew John**, Principal & Professor / CSE
- **Dr. Amitha I. C**, Associate Professor / CSE
- **Mr. Chandrajith E**, Assistant Professor / ME
- **Ms. Jithika M**, Assistant Professor / CSE

## Executive Committee

- **Mr. Rahul V. A**, HOD / ASH
- **Mr. Nithin C**, HOD / ECE
- **Mr. Shree Kiran**, HOD / ME
- **Ms. Vijila Balakrishnan**, HOD / CE

## National Advisory Committee

- **Dr. Akhil Gopalakrishnan**, Post Doctoral Researcher, Karlsruhe Institute of Technology, Germany
- **Dr. Nagavinothini Ravichandran**, Senior Postdoctoral Researcher, Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand
- **Dr. Rajesh R, Professor**, Department of Computer Science, Central University of Kerala
- **Dr. N. S. Sreekanth**, Associate Professor, Department of Information Technology, Kannur University
- **Dr. Leena A. V**, Principal & Professor, Department of Civil Engineering, SNGCET, Kannur, Kerala
- **Dr. Jithesh K**, Associate Professor & UG Dean (Academics), ASIET, Kalady, Ernakulam
- **Dr. V. Vinod Kumar**, Professor, Department of Electronics & Communication Engineering, Government College of Engineering, Kannur
- **Dr. B. Kannan**, Emeritus Professor, Department of Computer Applications, Cochin University of Science and Technology
- **Dr. Bejoy Abraham**, Associate Professor, Department of Computer Science & Engineering, College of Engineering, Muttathara, Thiruvananthapuram

# NATIONAL CONFERENCE

## Organizing Committee

- **Ms. Anju G**, Assistant Professor / CSE
- **Mr. Madhu K**, Assistant Professor / CSE
- **Mr. Jithin S**, Assistant Professor / CSE
- **Ms. Anu C**, Assistant Professor / CSE
- **Ms. Arsha C. Dinesh**, Assistant Professor / ECE
- **Ms. Sreetha Sreedhar K**, Assistant Professor / ECE
- **Dr. Arun Kumar S**, Associate Professor / CE
- **Ms. Roopa Balakrishnan**, Assistant Professor / CE
- **Mr. Adarsh Madhu**, Assistant Professor / ME
- **Mr. Aswin P**, Assistant Professor / ME
- **Ms. Sujisha P. P**, Assistant Professor / ASH
- **Mr. Lipin K**, Assistant Professor / ASH
- **Ms. Sreelakshmi Prasad**, Assistant Professor / ASH
- **Ms. Ashwini H**, Training & Placement Officer / STM
- **Ms. Neethu T**, Librarian / STM



## AIM

The primary aim of RAET'25 was to create a vibrant platform for researchers, academicians, and industry experts to share knowledge, discuss emerging trends, and present innovative research findings across various engineering domains. The event was designed to foster interdisciplinary collaboration and networking, encouraging participants to explore the real-world applications of recent technological advancements. A key objective was to promote research and development initiatives in sustainable and smart technologies, while also inspiring the next generation of engineers and students to contribute to the technological landscape. Ultimately, RAET'25 sought to bridge the crucial gap between academic theory and industrial practice.

# NATIONAL CONFERENCE

## Program Details

The conference was meticulously structured around four specialized tracks, each delving into the most pertinent topics of its field. The Computer Science and Applications track explored the digital frontier, with discussions on topics such as Artificial Intelligence, Big Data Analytics, Cybersecurity, and Cloud Computing. The Electronics and Communication track covered a wide spectrum of advancements, including VLSI Design, 5G Technologies, Robotics, and Biomedical Electronics. Focusing on building a sustainable future, the Civil Engineering track featured innovations in Sustainable Construction Materials, Water and Wastewater Treatment, and Earthquake-Resilient Structures. Finally, the Mechanical Engineering track showcased the evolution of mechanical systems with a focus on Industry 4.0, Renewable Energy, and Automotive Engineering. Throughout the event, attendees engaged in insightful keynote speeches, technical paper presentations, and interactive panel discussions, fostering a rich environment for learning and collaboration.

## Snapshots of the Event



# NATIONAL CONFERENCE

## Conclusion

RAET'25 concluded on a high note, successfully achieving its goal of creating a synergistic environment for knowledge exchange. The conference not only highlighted groundbreaking research but also sparked vital conversations about the future challenges and prospects in engineering and technology. Participants left with renewed inspiration, valuable insights, and a strengthened professional network. The event was a resounding success, reinforcing our institution's commitment to academic excellence and technological innovation. The knowledge shared and connections made during RAET'25 will undoubtedly contribute to the continued advancement of engineering and technology for years to come.

# AWARDS (FACULTY)



## Dr. AMITHA I C

Associate Professor  
Department of Computer Science &  
Engineering

### Academic Excellence Award

In commendation of achieving **Outstanding Result** percentages in the academic year 2023-2024



## Mr. Jithin S

Assistant Professor  
Department of Computer Science &  
Engineering

### Academic Excellence Award

In commendation of achieving **Outstanding Result** percentages in the academic year 2023-2024

# AWARDS

## (FACULTY)



### Ms. Jithika M

Assistant Professor  
Department of Computer Science &  
Engineering

#### Academic Excellence Award

In commendation of achieving **Outstanding Result** percentages in the academic year 2023-2024



### Ms. Vaishaki V K

Assistant Professor  
Department of Computer Science &  
Engineering

#### Academic Excellence Award

In commendation of achieving **Outstanding Result** percentages in the academic year 2023-2024

# ACHIEVEMENTS

## (STUDENTS)

### MOOC COURSE COMPLETIONS

#### DATA SCIENCE FOR ENGINEER

SAMANTHA SHINE JYOTHIRMAYI

#### PYTHON FOR DATA SCIENCE

AK GOKUL

DEVATHMAJ A KALIYATHAN

ASHIKA RAVEENDRAN

NEVIN R PRADEEP

JAGAN K K

STVANTH P K

SANDRA C M

AKASH M

SHEETALMADHU

SANJAY M

#### INTRODUCTION TO MACHINE LEARNING

SAMANTHA SHINE JYOTHIRMAYI

DRISHYAP K

SHEETALMADHU

#### PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING PYTHON

AYUSH SUNIL KUMARE K

AKRITHUL

#### INTRODUCTION TO OPERATING SYSTEMS

SOUMYASREE C M

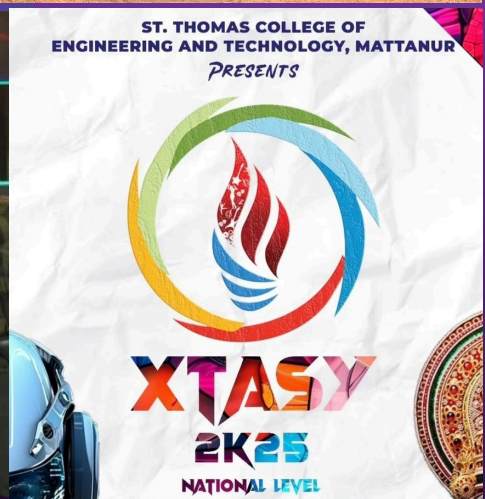
#### HIGH SCORE IN SPOKEN TUTORIAL

MUHAMMED JINAS T P

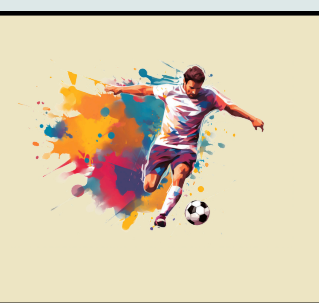
DEVATHMAJ A KALIYATHAN

NEVIN R PRADEEP

# Moments Of The Year



# KTU F-ZONE TOURNAMENTS



## Chess Tournament

RASHA VALSAN, A STUDENT OF S5 CSE, SECURED THE SECOND RANK IN THE F-ZONE CHESS COMPETITION HELD TODAY AT THE GOVERNMENT COLLEGE OF PHYSICAL EDUCATION, CALICUT, AND QUALIFIED FOR THE KTU INTERZONE CHESS COMPETITION.

 **St. Thomas College of Engineering & Technology**  
SIVAPURAM, MATTANUR, KANNUR DIST  
[www.stthomaskannur.ac.in](http://www.stthomaskannur.ac.in)

**Congratulations!!!**

**RASHA VALSAN**  
S5 CSE

**Selected for the KTU INTERZONE CHESS competition ( KTU F-Zone Rank - 2 )**

stthomaskannur-official

# KTU F-ZONE TOURNAMENTS



## Table Tennis Tournament

BOTH THE MEN'S AND WOMEN'S TABLE TENNIS TEAMS SECURED THE 4TH POSITION IN THE KTU F-ZONE TABLE TENNIS TOURNAMENT HELD AT KMCT ENGINEERING COLLEGE, MANASSERY, CALICUT.

TEAM MEMBERS:

WOMEN: SRAVANA T (S7 CSE), NANDANA DAS K. T. (S7 ME), NANDANA PRADEEP (S7 CE), ASWATHY KUNNUMMAL (S5 CE)

MEN: ALOK PRAKASH (S7 ME), AKASH PRADEEP (S7 ME), AYUSH SUNILKUMAR (S7 CSE), AJAY SHAJI (S7 ME)



# PAPER PRESENTATION/PUBLICATION

SL NO	Name of Students	Publication Type	Publisher	Paper Title	Name of the Journal/ Conference	Year of Publication
1	Muhammed Hadhif Manoly, Aysha Shama Musamil, Anand K K, Afnas C P	International Journal	IJNRD	Brandguard: Ai-driven Threat Intelligence With Sentiment Analysis	International Journal of Novel Research and Development	April 5,2025
2	Jagan K K, Jibin P V, Muhammed Fayiz V C, Rhuthoshika K	International Journal	IJRTI	An AI-Powered AR Game Platform for Hand-Drawn Sketch Recognition	International Journal for Research Trends and Innovation	April 5,2025
3	Muhammed Hadhif Manoly, Aysha Shama Musamil, Anand K K, Afnas C P	International Journal	IJNRD	Brandguard: Ai-driven Threat Intelligence With Sentiment Analysis	International Journal of Novel Research and Development	April 5,2025
4	Jagan K K, Jibin P V, Muhammed Fayiz V C, Rhuthoshika K	International Journal	IJRTI	An AI-Powered AR Game Platform for Hand-Drawn Sketch Recognition	International Journal for Research Trends and Innovation	April 5,2025
5	Aswin Ratheesh Dk, Fathima Fiza CP, Muhsin K, Rena Haris Vp	International Journal	IJNRD	Pickperfect: Coconut Maturity Detector And Harvester	International Journal Of Novel Research And Development	April 18, 2025

6	Abhinav V P, Ahin Suresh, Nihel Vinod M, Drupad M K	International Journal	IJNRD	Brain Tumor Detection And Classification	International Journal of Novel Research and Development	April 5,2025
7	Crisbin Joseph, Pournami, Theja Murali, Sayanth T M	International Journal	IJRTI	Automated Telegram Group Management System for Spam and NSFW Content Prevention	International Journal for Research Trends and Innovation	April 14,2025
8	A K Rithul, Akash M, Amarnath T, Drishyap K	International Journal	IJNRD	TRIPSTER - An AI Powered Trip Companion	International Journal of Novel Research and Development	April 7,2025
9	Fathimath Nehala T Gopika Jayan Najwa Sneha K K	International Journal	IJNRD	Improved Parking Slot Using Yolov3	International Journal of Novel Research and Development	April 18, 2025
10	Vyshakh C Sayanth K Hridya Raj P Sivanth P K	International Journal	IJNRD	LAI : A Model For Identifying Various Lung Abnormalities	International Journal of Novel Research and Development	April 24, 2025
11	Akshay K Ayush Sunil Kumar EK Sanjay Krishna Nelliadan Sanjay M	International Journal	IJNRD	BOOST :Beginner's Optimal AI Strength Training	International Journal Of Novel Research And Development	April 2025

# INDUSTRIAL VISIT



## ***Industrial Visit at “TECHBYHEART, Koramangala, Bangalore”***

**Date of the event:** 28-09-2024

**Event Coordinators:** Mr. Jithin S(AP, CSE), Ms. Vaishaki V K(AP, CSE)  
Mr. Varun P V(AP, ME)

### **Aim**



The industrial visit to TechByHeart in Bangalore was organized with the primary objective of bridging the gap between academic theory and real-world industry practices for the fourth-year Computer Science and Engineering students. As mandated by the university curriculum, the visit aimed to provide students with direct exposure to the operational procedures of a leading technology firm. Specifically, the program was designed to enlighten students on current trends in cybersecurity, offer hands-on exercises in vulnerability hunting, and familiarize them with essential cybersecurity tools and operations. Furthermore, the visit sought to broaden their understanding of other pivotal areas in the modern tech landscape, including Amazon Web Services (AWS) cloud computing, Artificial Intelligence (AI), and Machine Learning (ML), thereby equipping them with insights critical for their future careers in engineering.

# INDUSTRIAL VISIT



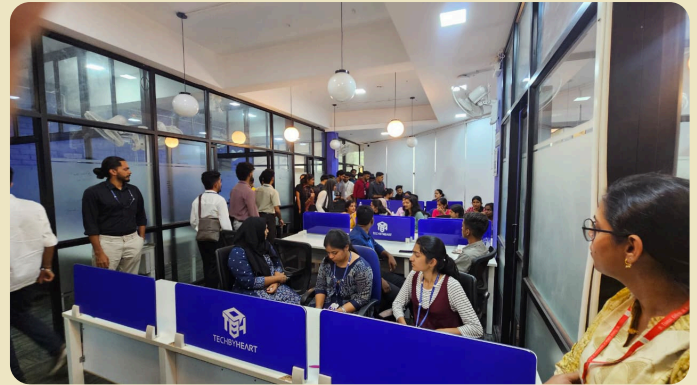
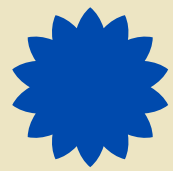
## Program Details

The industrial visit was meticulously planned and executed for 45 students and three faculty members from the S7 CSE department on the 28th of September, 2024, as part of a broader five-day tour. The host, TechByHeart in Koramangala, Bangalore, arranged a structured day-long program that commenced with a company introduction, followed by an in-depth training session on AWS Cloud until the afternoon. After a lunch break, the learning resumed with an extensive session on the fundamentals of Artificial Intelligence and Machine Learning, concluding at 6:00 PM. The journey involved extensive travel, beginning with a pre-dawn departure from the college campus in Kannur to ensure a timely arrival at the Bangalore facility. The comprehensive itinerary for the multi-day tour included not only the industrial visit but also educational and recreational stops, with planned stays in Hassan and Goa to enrich the overall experience. The entire event was facilitated by a dedicated chartered bus, ensuring comfortable and coordinated transit for the entire group throughout the duration of the excursion.

## IV Snapshots



# INDUSTRIAL VISIT



## Conclusion

The industrial visit was meticulously planned and executed for 45 students and three faculty members from the S7 CSE department on the 28th of September, 2024, as part of a broader five-day tour. The host, TechByHeart in Koramangala, Bangalore, arranged a structured day-long program that commenced with a company introduction, followed by an in-depth training session on AWS Cloud until the afternoon. After a lunch break, the learning resumed with an extensive session on the fundamentals of Artificial Intelligence and Machine Learning, concluding at 6:00 PM. The journey involved extensive travel, beginning with a pre-dawn departure from the college campus in Kannur to ensure a timely arrival at the Bangalore facility. The comprehensive itinerary for the multi-day tour included not only the industrial visit but also educational and recreational stops, with planned stays in Hassan and Goa to enrich the overall experience. The entire event was facilitated by a dedicated chartered bus, ensuring comfortable and coordinated transit for the entire group throughout the duration of the excursion.

## Acknowledgement

We wish to express our profound gratitude and appreciation to all those who contributed to the success of our industrial visit. First and foremost, we thank our Principal, Dr. Shinu Mathew John, for granting us the permission and opportunity for this invaluable experience. Our sincere thanks are extended to Dr. Amitha I C, our Head of Department, for her unwavering support and encouragement. We are deeply indebted to our accompanying faculty members, Mr. Jithin S, Mrs. Vaishakhi V K, and Mr. Varun P V, for their dedicated guidance, constant supervision, and tireless efforts throughout the journey. We also extend our heartfelt thanks to TechByHeart for their warm hospitality, and specifically to Mr. Dhanoopravendran and Mr. Muhammad Mubashir T for organizing an insightful training program and for their gracious support. Finally, we acknowledge the collective effort of our classmates and the college administration, whose cooperation was instrumental in making this industrial visit a highly rewarding and memorable endeavor.

The background is a soft, abstract watercolor wash. It features a central, bright yellow and orange glow that fades into lighter pinks and oranges towards the edges. The overall effect is warm and ethereal, with a central sun-like motif. The word "ARTICLES" is centered horizontally and vertically over this background.

# ARTICLES

# Augmented Reality

Augmented Reality (AR) is revolutionizing technology by seamlessly blending the digital and physical worlds, overlaying computer-generated information onto our view of reality. Unlike Virtual Reality, which creates an entirely new environment, AR uses devices like smartphones and smart glasses to enhance our perception, adding layers of context to what we see. This powerful capability is transforming a wide range of industries, from providing hands-free instructions for workers in manufacturing and offering immersive "try-on" experiences for shoppers, to revolutionizing medical training with interactive 3D anatomy models. By making digital information immediately relevant to our physical surroundings, AR is changing how we work, learn, and shop, promising greater efficiency and a more engaging user experience.

As AR technology continues to evolve, its influence is set to expand even further. The integration of AR with Artificial Intelligence (AI) will lead to more personalized and intuitive experiences, while the high speed and low latency of 5G networks will enable complex, real-time AR applications. We're also seeing a shift from smartphones to more comfortable and convenient wearable devices like smart glasses, which will make AR an indispensable part of daily life. This ongoing development, combined with the rise of WebAR which allows for AR content directly in a browser, is making the technology more accessible to everyone. Ultimately, AR is not just a technological gimmick; it's a fundamental shift in how we access and process information, creating a new, interconnected layer of reality that is both more informed and interactive.



Jibin P V  
S6 CSE

# The Rise of Edge Computing: Transforming Data Processing

In today's digitally connected world, data generation has reached unprecedented levels. From smartphones and IoT sensors to autonomous vehicles and wearable devices every second produces massive amounts of information. Traditionally this data is sent to centralized cloud servers for processing and analysis. However as data volumes surge cloud-based architectures are struggling with latency, bandwidth limitations and privacy concerns. To address these challenges Edge Computing has emerged as a powerful paradigm reshaping the way computation and data management occur.

Edge computing refers to the practice of processing data closer to its source — at the “edge” of the network — instead of relying solely on distant cloud servers. This localized approach minimizes the need for constant communication with centralized systems reducing latency and improving real-time responsiveness. For instance in autonomous vehicles immediate decision-making is critical; sending every bit of data to the cloud for analysis would cause dangerous delays. Edge computing enables on-site data analysis ensuring faster and safer operations.

Another major advantage of edge computing is enhanced data privacy and security. Since much of the processing occurs locally sensitive information doesn't always have to be transmitted to external servers reducing exposure to cyber threats. Additionally it helps organizations comply with data protection regulations by keeping user information within defined boundaries.

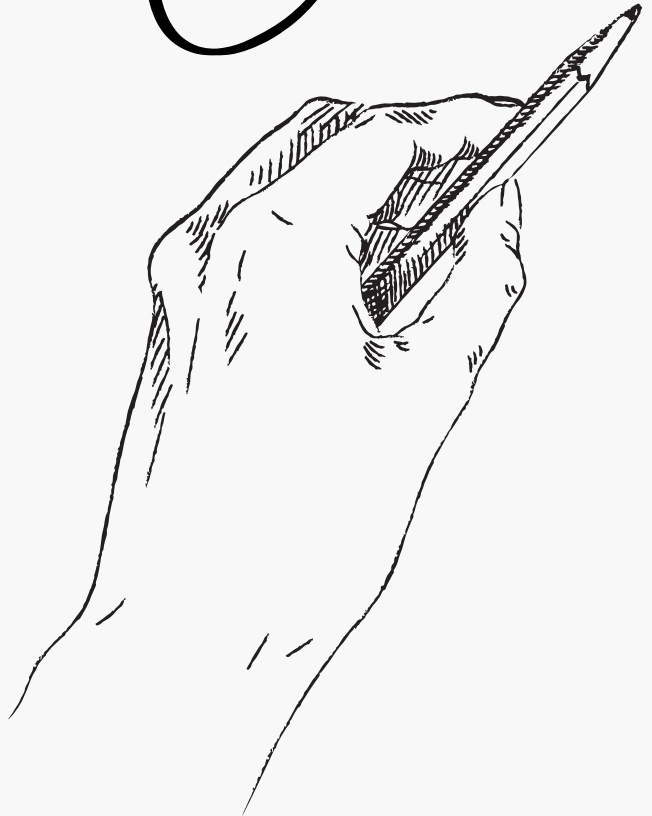
Industries across various sectors are rapidly adopting edge computing. In healthcare smart medical devices can analyze patient vitals in real-time and alert doctors instantly during emergencies. In manufacturing edge-enabled systems predict equipment failures before they occur minimizing downtime and optimizing production. Even smart cities rely on edge computing to manage traffic lights monitor pollution and enhance public safety through connected infrastructure.

The integration of artificial intelligence with edge computing often called “Edge AI” further amplifies its potential. Lightweight AI models can now run directly on edge devices allowing intelligent decision-making without relying on constant internet connectivity. This innovation opens the door to a new generation of adaptive context-aware systems capable of operating independently and efficiently.

In conclusion edge computing represents a significant evolution in data processing. By bringing computation closer to where data is generated it bridges the gap between speed efficiency and security. As the number of connected devices continues to grow the demand for edge-based solutions will only intensify marking a crucial step toward a faster smarter and more decentralized digital future.

Aysha P P  
S6 CSE

# Students Corner



# ARTWORK



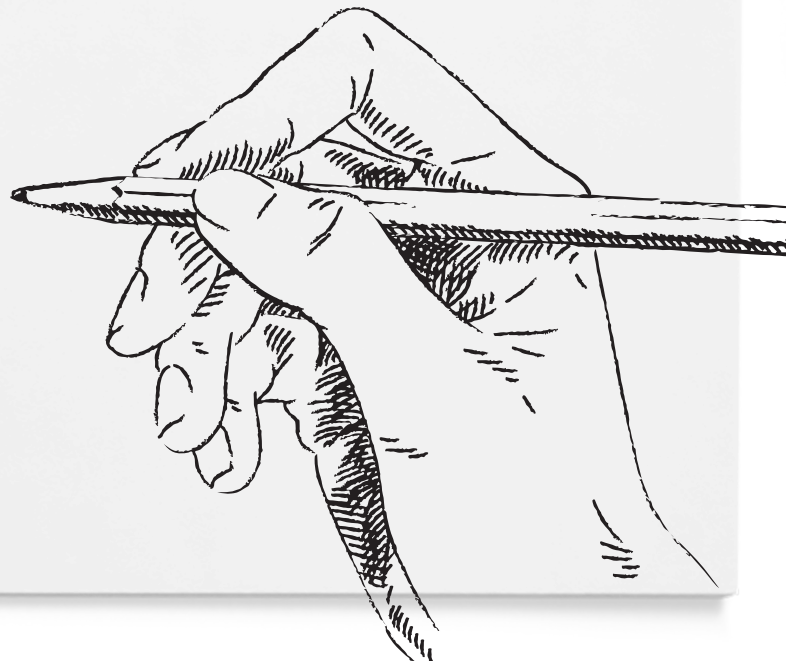
*Yashika Prasanth*  
**S4 CSE**



# ARTWORK



Anjitha V  
S4 CSE

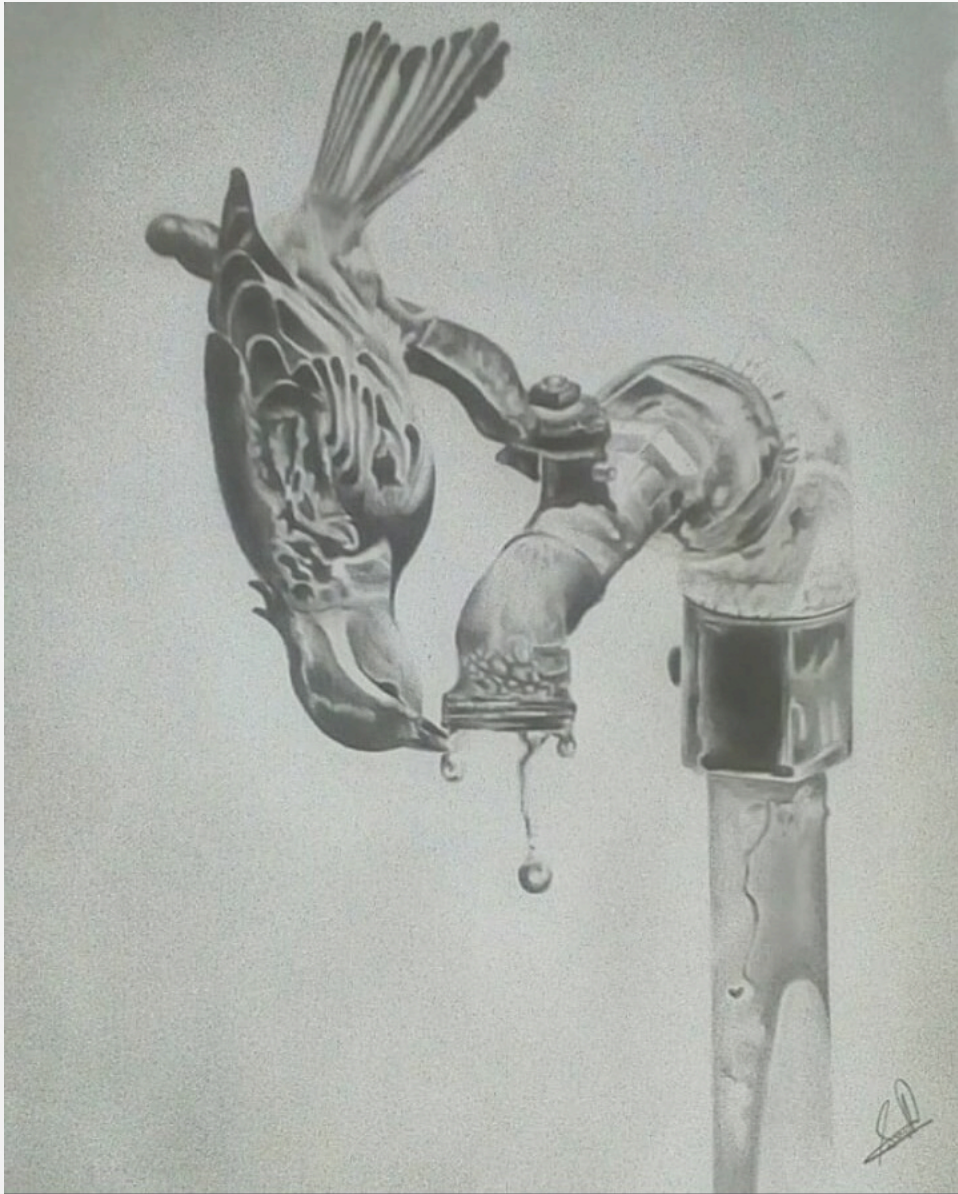


# ARTWORK



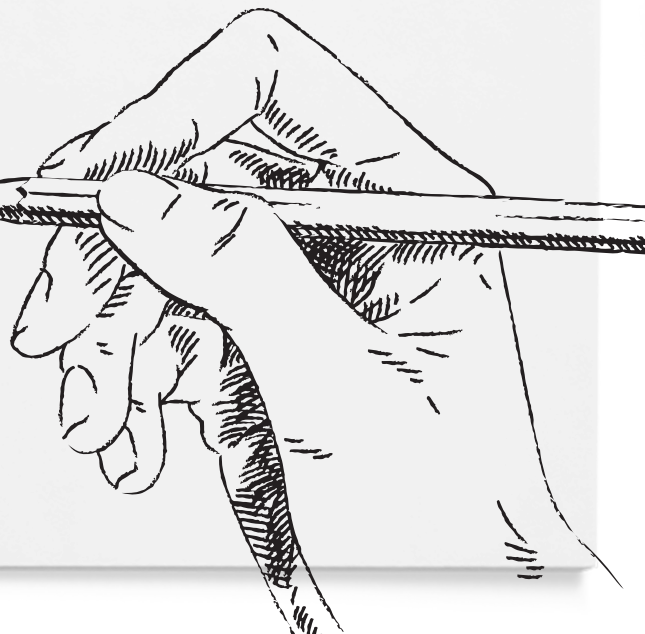
*Athul Babu*  
**S6 CSE**

# ARTWORK



Sreya Sajeevan

S6 CSE



# WRITINGS

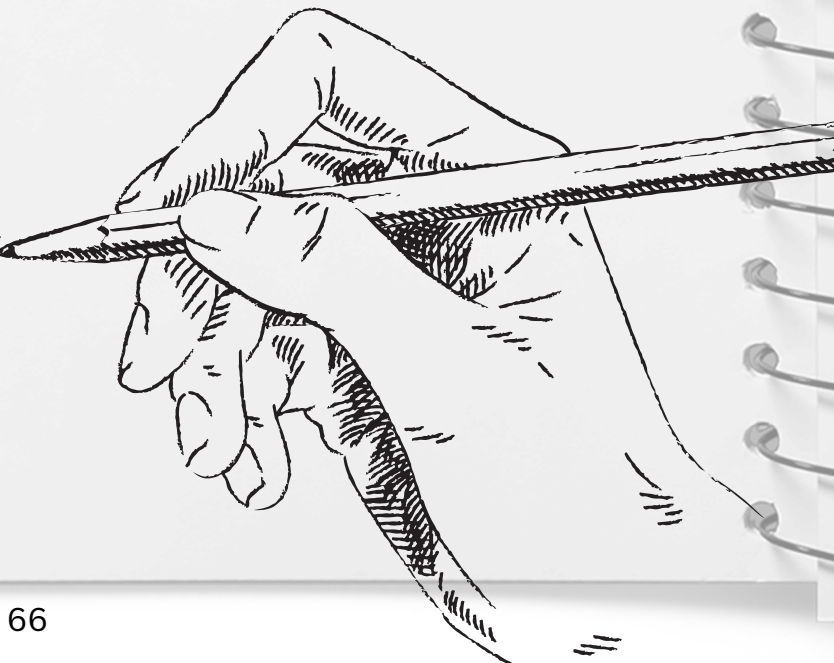
*The One I Woe*

To the one i woe,  
You may have won  
But at what cost.  
Your own solace or sorrow?

To the one i woe,  
You may think you've won  
But you don't.  
You don't get to choose,  
I do.

*Theertha Mohandas*

**S6 CSE**



# WRITINGS

## Technoduality

The scene we glance at is a lie of source  
Yet none emerge to technify them.

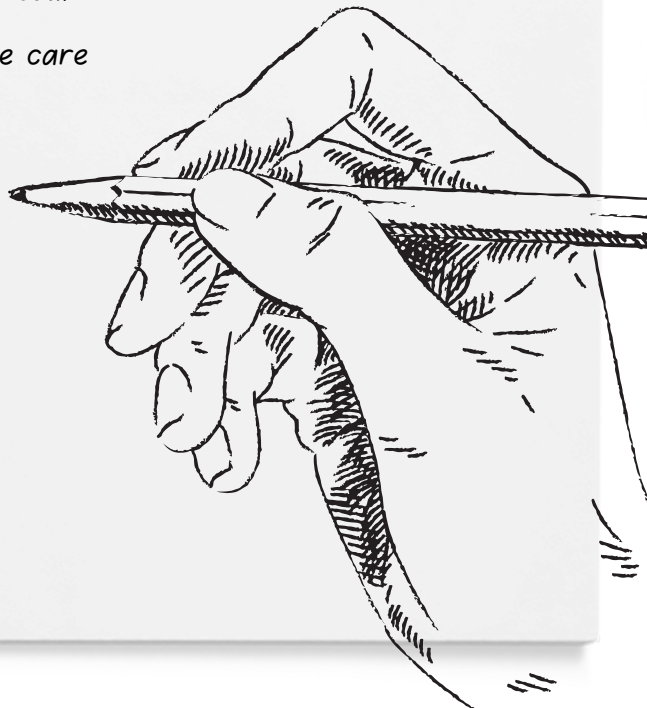
There exists a lie behind  
Conquered by vast artifice  
The fellows hurry for ingenium!  
Looking with zest but lacks the apathy

There lies the duality  
None checks for validity.  
Still in hands of the mob  
Unrecognized of the code  
That connects the soul

Whilst, a fragile thread maps  
The hub codes with care  
Conquering the nature of soul  
The techs watch, that none care  
In this sage soul,  
resides a double edge

Rhuthoshika K

S6  
CSE





## St. Thomas College of Engineering & Technology

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



**Geekzone**  
COMPUTER SCIENCE AND ENGINEERING ASSOCIATION