DEPARTMENT OF
# COMPUTER AND COMMUNICATION ENGINEERING

ELDRIDA INNOVATORS CLUB
ANNUAL REPORT
Academic Year : 2024-2025
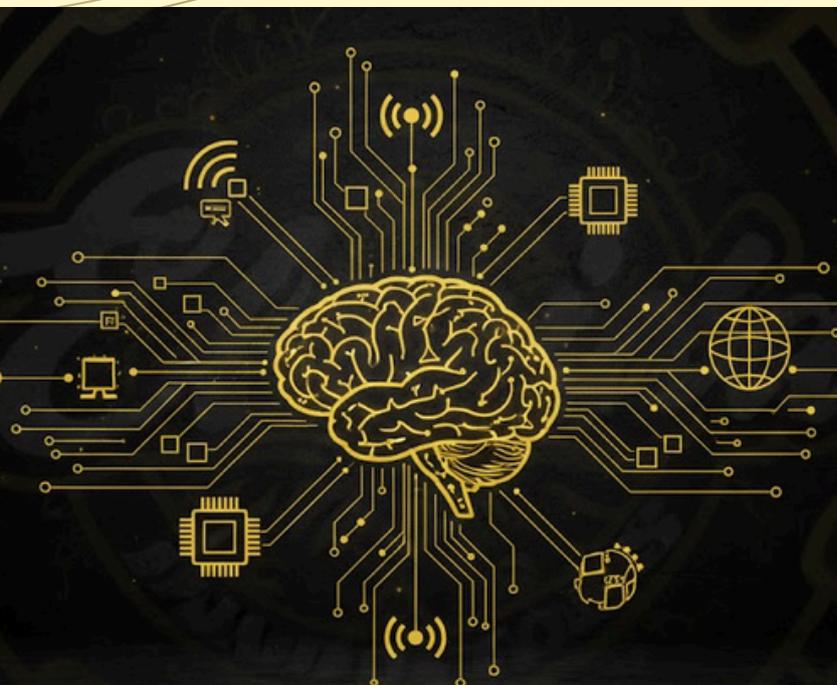
PREFACE

The Eldrida Innovators Club of the Department of Computer and Communication Engineering at Sri Manakula Vinayagar Engineering College serves as a vibrant platform dedicated to fostering innovation, technical expertise, and collaborative learning among students. The club is established with the vision of integrating core computing principles with advanced communication technologies and aims to bridge the gap between theoretical knowledge and practical implementation. It actively focuses on emerging domains such as Artificial Intelligence, Data Science, Cybersecurity, Cloud Computing, Internet of Things, and next-generation communication systems. Through hands-on workshops, coding boot camps, hackathons, expert lectures, industry interactions, and project-based learning initiatives, the club encourages students to explore contemporary technological trends. It nurtures analytical thinking, creativity, problem-solving skills, leadership qualities, and teamwork among members. A dedicated team of office bearers, including the President, Vice President, Secretary, Treasurer, and Technical Coordinators, ensures the effective planning and execution of various technical and co-curricular activities. By promoting continuous skill development, research orientation, and industry-relevant exposure, the Eldrida Innovators Club strives to develop competent, innovative, and ethically responsible engineers while contributing to the academic excellence and technological advancement of the institution.
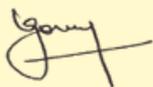
Faculty Coordinator
(Mrs.V.Gomathi)

HoD/CCE
(Dr.R.Ramya)

IQAC Coordinator
(Dr.Arivalagar A A)

Director cum Principal
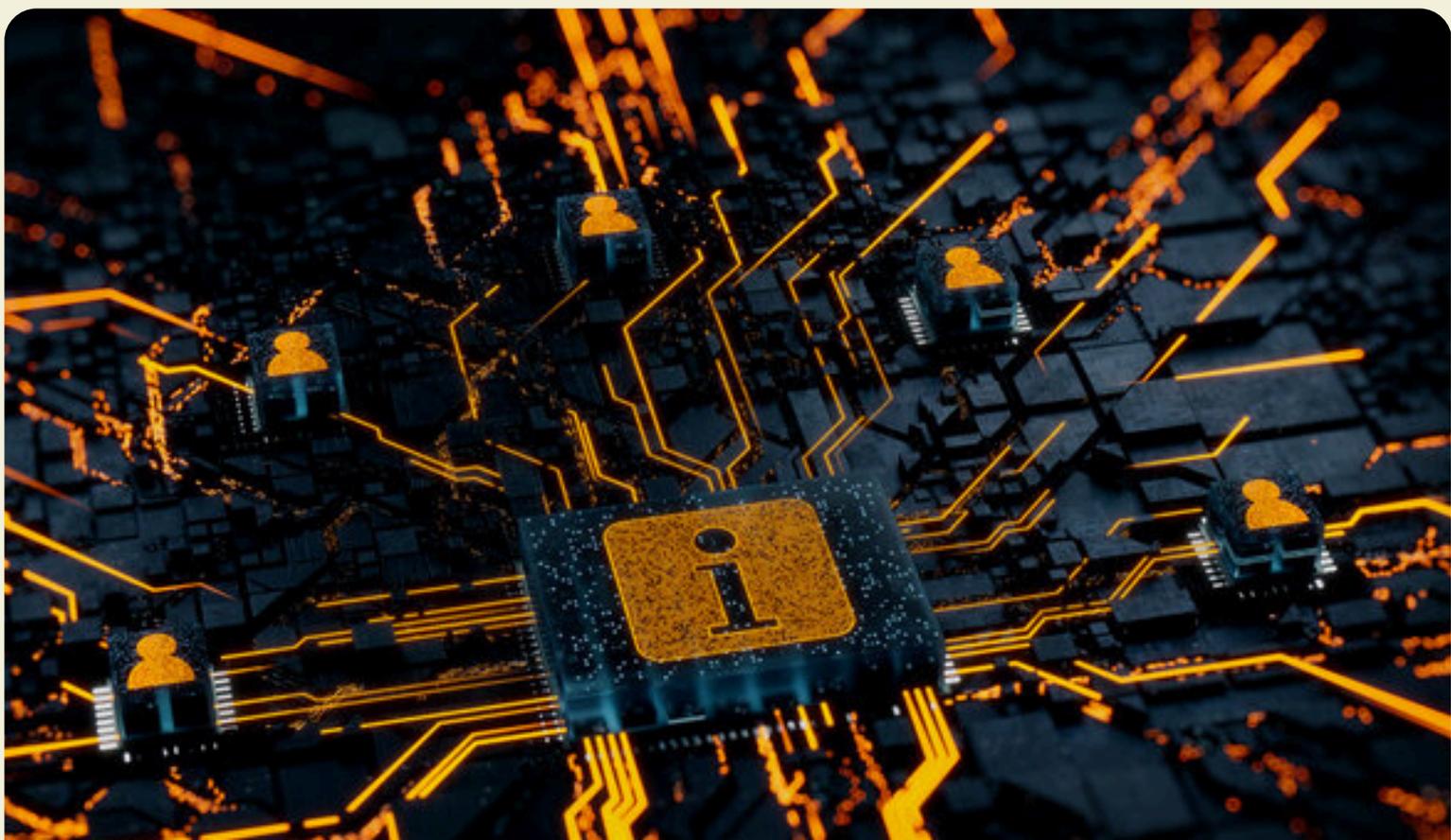(Dr.V.S.K.Venkatachalapathy)

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ABOUT THE INSTITUTION

Sri Manakula Vinayaga Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 13 undergraduate, 8 postgraduate and 11 Research programs in engineering. SMVEC has been accredited by NAAC with "A" grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements. To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

VISION

- To nurture the cornerstone of excellence in engineering education and drive innovation by seamlessly integrating the fundamentals of Science and Humanities

MISSION

M1: Quality Education : To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

M2: Research and Innovation : To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

M3: Employability and Entrepreneurship : To inculcate the employability and entrepreneurial skills through value and skill based training.

M4: Ethical Values : To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

ABOUT THE DEPARTMENT

The Bachelor of Technology in Computer and Communication Engineering (CCE) programme prepares students for a rapidly changing technological landscape. This programme focuses on both internet networking and broadband communication, offering a thorough grasp of data transport across wired and wireless channels. Our curriculum prepares graduates to excel and innovate in global data networks, enabling safe communication and information exchange via text, phone, or video.

VISION

- To provide students with cutting-edge technology and research in computer and communication engineering to meet global socioeconomic requirements.

MISSION

M1: Technical Knowledge : Deliver academic excellence in computer and communication engineering to meet societal demands.

M2: Innovation and Research : Provide recognised multidisciplinary research at national and international levels.

M3: Employability and Entrepreneurship : Develop technical, interpersonal, and intrapersonal abilities to improve your employability and entrepreneurship.

M4: Ethics : Encourage integrity, ethical beliefs, and participatory skills to develop a better nation.

ABOUT ELDRIDA INNOVATORS CLUB

The Eldrida Innovators Club is a student-driven community that integrates technical knowledge with non-technical creativity to encourage innovation, collaboration, and leadership. The club offers a platform for students to explore emerging technologies, engage in problem-solving activities, and participate in creative challenges. Through interactive events and teamwork-based initiatives, members develop practical skills, communication abilities, critical thinking, and a balanced mindset essential for real-world innovation and professional growth.

VISION

- Organize workshops, seminars, competitions, and hands-on training sessions to achieve this goal.
- Help students to prepare for their future careers in technical fields.
- Promote extracurricular activities and personal development among its members.
- Provide a platform for students to explore their interests and develop soft skills.
- Build social connections among students.

MISSION

- To promote and enhance technical skills among students.
- To create a platform for students to showcase their technical knowledge and expertise.
- To organize technical events and competitions to foster a culture of innovation and creativity.
- To provide a platform for students to explore and develop their non-technical skills.
- To organize events and activities that promote creativity, critical thinking, and leadership.
- To promote social and cultural awareness among students.

ABOUT ELDRIDA INNOVATORS CLUB

he Eldrida Innovators Club is guided by a committed team of office bearers who play a crucial role in shaping the club's vision and activities while fostering a culture of innovation and creativity. The leadership team includes a Head of the Club, President, Vice President, Secretary, Treasurer, Committee Chair, and Technical Leads, each contributing distinct skills and responsibilities. These office bearers plan and coordinate technical and non-technical events, manage resources, mentor members, and oversee project and creative initiatives. Their collective leadership ensures the smooth functioning of the club while encouraging collaboration, experimentation, and hands-on learning. Through their efforts, the Eldrida Innovators Club continues to serve as a dynamic platform for innovation, skill development, and future-ready thinkers.
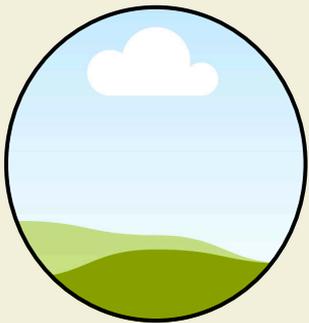
Mrs.V.Gomathi
Assistant Professor
Faculty Coordinator

V.Vijayraja
Head of the Club
IV/A

Ashok Kumar.S
President
III/A

Eashwara Prasadh.R
Vice President
II/A

Srenethesh.M
Secretary
IV/A

Surendar.M
Treasurer
IV/A

Farhanna.M.H
Commitee Chair
IV/A

Naren Karthik.S
Commitee Chair
IV/A

LIST OF EVENTS

S.No.	Title
01	Cryto Warrior:Mathematician's Quest
02	The Code of Death's door : Debug the Crime
03	AI Art Challenge Create the Unseen
04	Aptitude

CRYTO WARRIOR:MATHEMATICIAN'S QUEST

Crypto warrior: Mathematician's quest was an engaging two-phase event design to test participants' mathematical and analytical skills.The first phase focused on cryptography, where competitors decoded a message using substitution cipher,caesar cipher,vigenere cipher. In the second phase ,they tackled numerical methods to solve complex equation. This event offered a unique blend of cryptographic challenges and numerical problem-solving, providing a comprehensive test of participants' capabilities.

- Date of the Event: 27.07.2024
- Year Of Student:III
- Venue:CCE III rd year Classroom
- Number of Participants: 57
- Mode Of Event:Offline
- Event Incharge: Ms.Mishael sneha

OBJECTIVES OF ACTIVITY

- To strengthen understanding of cryptography concepts by applying encryption and decryption techniques in a practical, problem-based scenario.
- To enhance problem-solving skills through the application of numerical methods such as Bisection, Regula Falsi, and Newton-Raphson methods.
- To promote teamwork and collaborative learning by engaging students in coordinated, time-bound challenges.
- To encourage logical thinking and creativity by integrating mathematics and cybersecurity concepts into an interactive game-based activity.

OUTCOMES OF THE ACTIVITY

- Students will be able to apply basic cryptographic techniques such as Caesar, Vigenère, and Substitution ciphers to decrypt encoded information.
- Students will gain practical experience in numerical methods, accurately finding roots using Bisection, Regula Falsi, and Newton-Raphson methods.
- Participants will develop improved analytical thinking and logical reasoning skills through step-by-step problem solving.
- Students will demonstrate effective teamwork and communication, working collaboratively under time constraints to achieve a common goal.

CIRCULAR

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF COMPUTER AND COMMUNICATION ENGINEERING

No: 01/SMVEC/CLUB/2024   Date: 26.07.2024

CIRCULAR

Dear Students

The **Eldrida Innovators Club** proudly presents **"Crypto Warrior: Mathematician's Quest"**!

This exciting event introduces students to the power of mathematics in cryptography, logic, and problem-solving. Participants will engage in interactive challenges and puzzles that strengthen analytical thinking and strategic reasoning.

Through hands-on activities, students will crack codes, solve mathematical quests, an

d experience how numbers play a crucial role in security and digital systems.

Join the quest, unleash your problem-solving skills, and become a true **Crypto Warrior**!

Year	Planned activity	Hour	Student Coordinators	Staff In-charge
III/V/A	CrytoWarrior: Mathematician's Quest	3rd&4th	1)Ashok Kumar.S 2)V.Vijayraja 3)Farhanna.M.H	Ms.Mishael Sneha
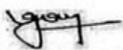
Club Coordinator
Mrs.V.Gomathi

HOD/CCE
Dr.R.Ramya

PHOTO GALLERY

THE CODE OF DEATH'S DOOR : DEBUG THE CRIME

The Code of Death's door : Debug the Crime is a thrilling mystery novel where a group of skilled programmers must unravel a series of murders linked to a sinister piece of code. As they delve deeper into the enigmatic algorithms, they realize that the killer is manipulating the digital world to execute the perfect crime. Racing against time, they must debug the code to stop the next murder before it's too late, blending tech-savvy intrigue with intense suspense.

- Date of the Event: 31.08.2024
- Year Of Student:II
- Venue:CCE II nd year Classroom
- Number of Participants: 56
- Mode Of Event:Offline
- Event Incharge: Mrs.Gomathi.V

OBJECTIVES OF ACTIVITY

- To enhance students' logical thinking and debugging skills by identifying and correcting intentional errors in code.
- To improve understanding of programming fundamentals such as functions, variables, and control flow through practical problem-solving.
- To encourage analytical thinking by decoding hidden messages embedded within confusing or misleading code.
- To promote teamwork, patience, and confidence in handling real-world coding errors under time constraints.

OUTCOMES OF THE ACTIVITY

- Participants develop stronger debugging and problem-solving skills by handling intentionally flawed and confusing code.
- Students gain improved confidence in reading, understanding, and correcting unfamiliar or poorly structured programs.
- Learners enhance their logical reasoning and attention to detail while decoding hidden outputs and messages.
- The activity fosters collaboration, critical thinking, and a practical understanding of how real-world coding errors are identified and resolved.

CIRCULAR

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF COMPUTER AND COMMUNICATION ENGINEERING

No: 02/SMVEC/CLUB/2024   Date: 30.07.2024

CIRCULAR

Dear Students

The **Eldrida Innovators Club** presents **"The Code of Death's Door: Debug the Crime"**, an intense and thought-provoking event that blends coding, logic, and investigative thinking.

Participants will step into the role of digital detectives, analyzing clues, identifying bugs, and decoding hidden patterns to solve a crime scenario. The session focuses on logical reasoning, basic programming concepts, and problem-solving strategies used in real-world investigations.

Through immersive challenges and interactive tasks, students will debug faulty code, connect evidence, and uncover the truth behind the mystery. This experience promotes critical thinking, teamwork, and precision—skills essential for every modern problem solver.

Year	Planned activity	Hour	Student Coordinators	Staff In-charge
II / III /A	The Code of Death's Door: Debug the Crime	3rd&4th	1)EashwarPrasadh.R 2)V.Vijayraja 3)Farhanna.M.H	Mrs.Gomathi.V
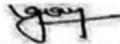
Club Coordinator
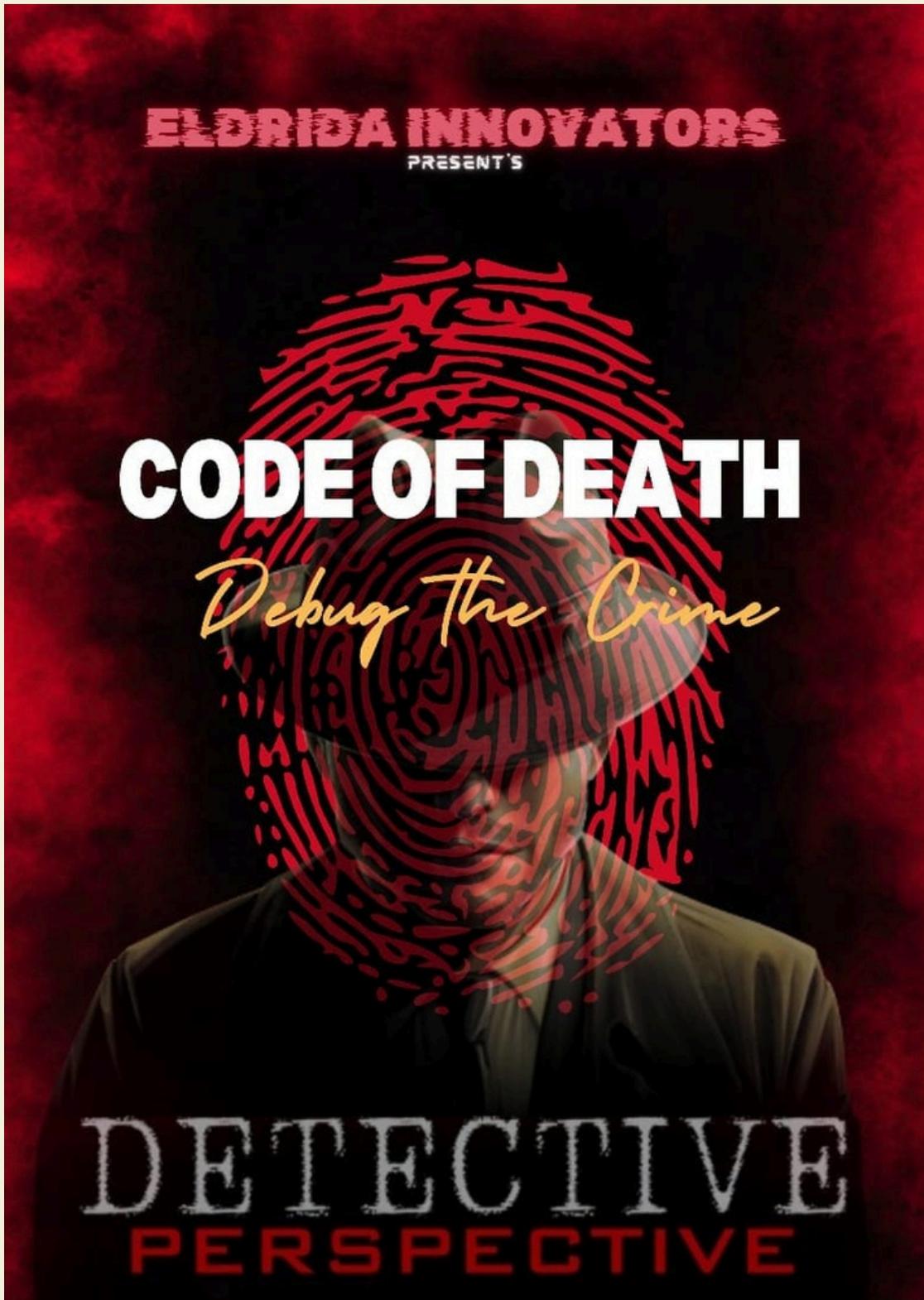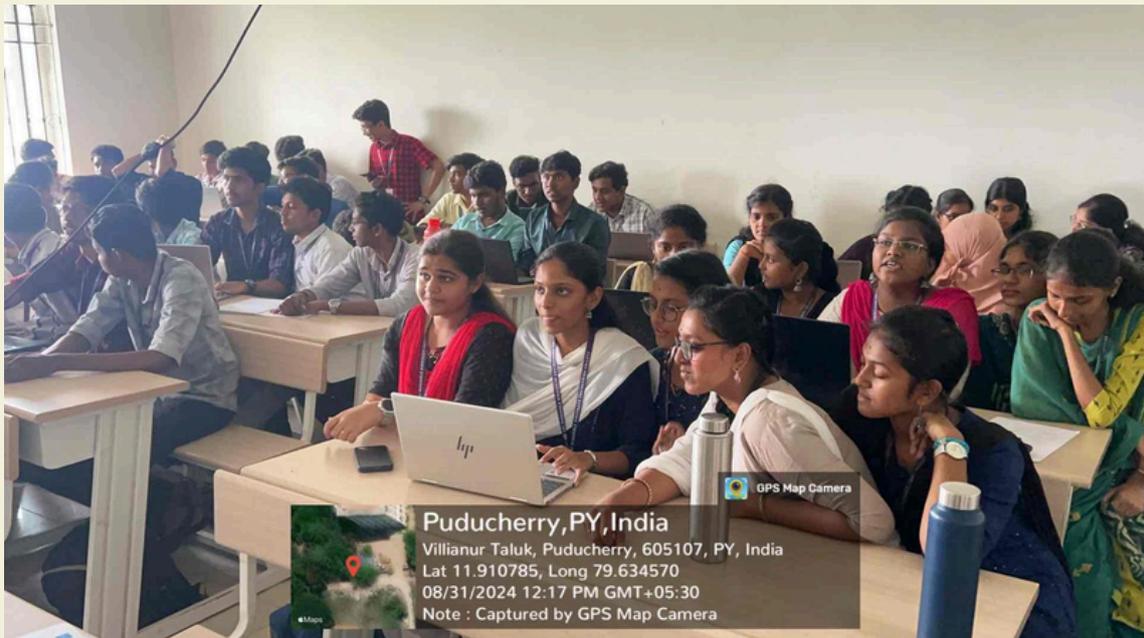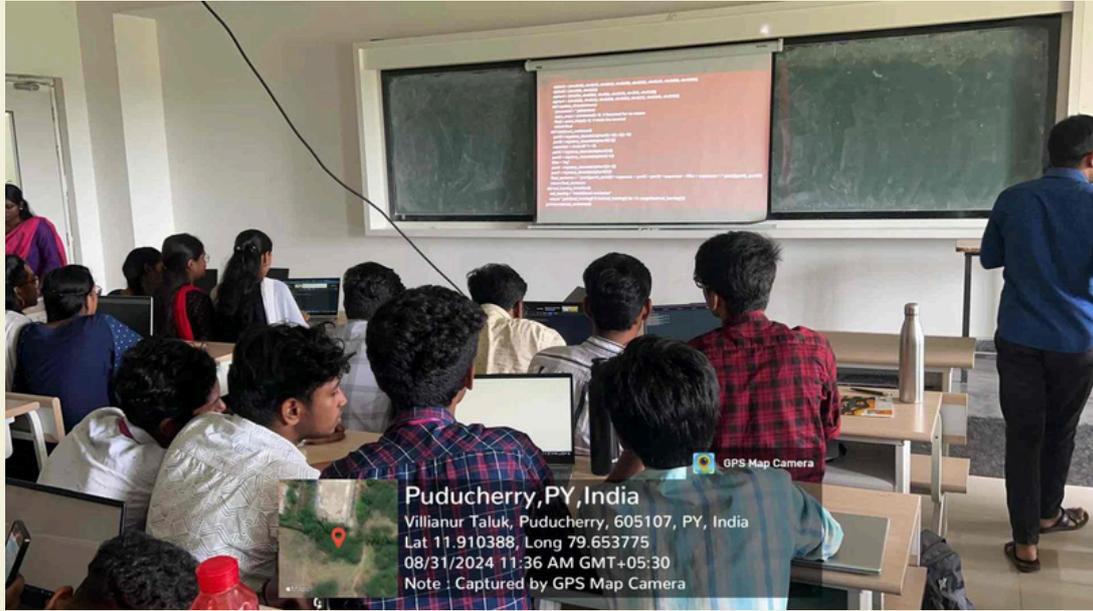Mrs.V.Gomathi

HOD/CCE
Dr.R.Ramya

POSTER

PHOTO GALLERY

AI ART CHALLENGE CREATE THE UNSEEN

Unleash your creativity with AI in the AI Art Challenge: Create the Unseen!" This event invites artists, designers, and tech enthusiasts to explore AI's potential in visual art. Using innovative AI tools, participants will generate imaginative, otherworldly artwork, pushing the boundaries of creativity. Whether you're experienced or new to AI, join us for live demos, interactive workshops, and expert panels. Compete for prizes by creating the most extraordinary AI-generated art.

- Date of the Event: 14.09.2024
- Year Of Student:III
- Venue:CCE II nd year Classroom
- Number of Participants: 53
- Mode Of Event:Offline
- Event Incharge: Mrs.Gomathi.V

OBJECTIVES OF ACTIVITY

- To encourage students to explore and understand AI-based image generation tools.
- To foster creativity and imagination through technology-driven art.
- To develop prompt-designing and critical thinking skills.
- To promote innovation by creating unique, never-before-seen visual concepts.
- To enhance storytelling skills through meaningful titles and descriptions.
- To inspire students to view AI as a creative collaborator, not just a tool.

OUTCOMES OF THE ACTIVITY

- Students gain hands-on experience with AI image generation tools.
- Improved creative thinking and imagination using technology.
- Enhanced ability to design effective prompts and articulate ideas clearly.
- Better understanding of AI's role in art, design, and innovation.
- Increased confidence in presenting and explaining creative work.
- Encouragement of interdisciplinary learning combining art, technology, and storytelling.

CIRCULAR

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF COMPUTER AND COMMUNICATION ENGINEERING

No: 03/SMVEC/CLUB/2024

Date: 13.09.2024

CIRCULAR

Dear Students

The **Eldrida Innovators Club** presents **"AI Art Challenge: Create the Unseen"**, a creative and futuristic event where imagination meets artificial intelligence.

Participants will explore how AI tools can transform ideas into stunning visual art, pushing the boundaries of creativity beyond what is traditionally possible. The session introduces the basics of AI-generated art and prompt design, encouraging participants to think creatively and experiment fearlessly.

Through hands-on challenges, students will create unique artworks, blend technology with imagination, and showcase their artistic vision. This challenge inspires innovation, originality, and a new perspective on how AI is reshaping the world of digital art.

Year	Planned activity	Hour	Student Coordinators	Staff In-charge
III/V/A	AI Art Challenge: Create the Unseen	3rd&4th	1)Ashok Kumar.S 2)V.Vijayraja 3)Farhanna.M.H	Mrs.Gomathi.V

Club Coordinator
Mrs.V.Gomathi

HOD/CCE
Dr.R.Ramya

POSTER

PHOTO GALLERY

APTITUDE

These exciting sessions will provide a unique opportunity to sharpen your aptitude and problem-solving skills through fun, interactive, and intellectually stimulating challenges. From age-based puzzles to complex ratio and proportion problems, each activity is designed to challenge your thinking and enhance your analytical abilities. Plus, experience a mock TCS NQT session to get a feel of real-world competitive testing.

- Date of the Event: 01.02.2025
- Year Of Student:III
- Venue:CCE III rd year Classroom
- Number of Participants: 50
- Mode Of Event:Offline
- Event Incharge: Mrs.Gomathi.V

OBJECTIVES OF ACTIVITY

- To educate participants on the significance of aptitude tests in competitive exams, particularly TCS NQT.
- To enhance participants' logical reasoning, arithmetic, and time management skills through diverse aptitude problems.
- To provide participants with a hands-on experience of the TCS NQT through a simulated test environment.
- To offer detailed explanations of solutions and share effective strategies for efficient problem-solving.

OUTCOMES OF THE ACTIVITY

- Participants gained a deeper understanding of the importance of aptitude tests in competitive exams, especially TCS NQT.
- Participants improved their logical reasoning, arithmetic skills, and time management abilities through solving diverse problems.
- Participants experienced the pressure and structure of the TCS NQT through a simulated test environment.
- Participants acquired valuable problem-solving strategies and techniques, enhancing their efficiency in tackling aptitude challenges.

CIRCULAR

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF COMPUTER AND COMMUNICATION ENGINEERING

No: 04/SMVEC/CLUB/2025   Date: 31.01.2025

CIRCULAR

Dear Students

The **Eldrida Innovators Club** presents the **Aptitude Challenge**, an engaging event designed to sharpen logical reasoning, numerical ability, and problem-solving skills.

Participants will tackle a variety of aptitude-based questions that test speed, accuracy, and analytical thinking. The session focuses on real-world problem-solving techniques commonly used in competitive exams, interviews, and professional assessments.

Through interactive rounds and timed challenges, students will boost their confidence, improve mental agility, and strengthen their foundation in aptitude. Step up, challenge your mind, and unlock your true potential!

Year	Planned activity	Hour	Student Coordinators	Staff In-charge
III/VI/A	Aptitude Challenge	3rd&4th	1)Ashok Kumar.S 2)V.Vijayraja 3)Farhanna.M.H	Mrs.Gomathi.V
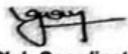
Club Coordinator
Mrs.V.Gomathi

HOD/CCE
Dr.R.Ramy

PHOTO GALLERY