

JERUSALEM COLLEGE OF ENGINEERING

(An Autonomous Institution)

(Approved by AICTE, Affiliated to Anna University)

Accredited by NBA and NAAC with 'A' Grade)

Velachery Main Road, Narayanapuram, Pallikaranai, Chennai – 600 100



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER

JULY – DECEMBER 2025

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VISION OF THE DEPARTMENT

The Department of computer science and engineering is dedicated to be a center of excellence, in producing graduates as ethical engineers, innovative researchers, dynamic entrepreneurs and globally competitive technocrats.

MISSION OF THE DEPARTMENT

- To craft students to be competent professionals with value based education, innovative teaching and practices.
- To enhance student 's soft skill, personality and ethical responsibilities by augmenting in- plant training, value added courses and co curricular activities.
- To facilitate the student as researchers by widening their professional knowledge through continuous learning and innovative projects.
- To produce dynamic entrepreneur through interaction with network of alumni industry and academia and extracurricular activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Graduates will apply engineering basics, laboratory and job oriented experiences to devise and unravel engineering problems in computer science engineering domain.

PEO2: Graduates will be multi-faceted researcher and experts in fields like computing, networking, artificial intelligence, software engineering and data science.

PEO3: Graduates will be dynamic entrepreneur and service oriented professional with ethical and social responsibility.

PEO4: Graduates will ingress and endure in core and other prominent organization across the globe and will foster innovation.

PROGRAM SPECIFIC OBJECTIVES (PSOs)

PSO-I: The ability to understand, analyze and to develop the design related to real-time system such as IOT, secured automated systems, machine vision, computer vision and cognitive computing with various complexities, providing orientation towards green computing environment.

PSO-II: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product.

PSO-III: The ability to innovate, introduce and produce socially relevant products to facilitate transformation of society into a digitally empowered knowledge economy, thereby to chart a successful career with a new dimension to entrepreneurship.

PROGRAM OUTCOMES (POs)

PO1: Engineering knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

PO3: Design/development of solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11: Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

1.SYMPOSIUM / CONFERENCE / WORKSHOPS /SEMINARS/ ORGANIZED BY THE DEPARTMENT



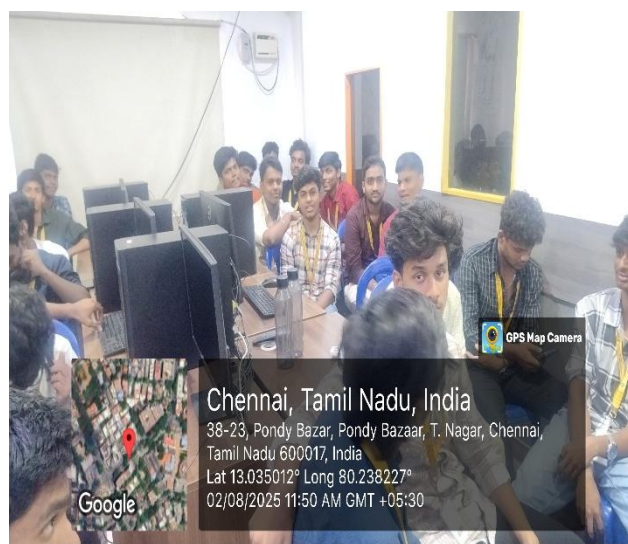
Inauguration of “Network of Computer Science and Engineers” by Mr.Madhanraj Vasudevan, Founder of HANET Solutions, Chennai on 18.08.2025.



A Guest Lecture on " CCNA and Cloud Computing " by Mr.Madhanraj Vasudevan, Founder of HANET Solutions, Chennai on 18.08.2025.



Seminar on “Data Centre and Cloud Integration Serviced” on 22.08.2025



Industrial Visit to “Image Creative Education, Alwarpet” for II year on 02.08.2025.



Industrial Visit to " Sansbound Networking School, West Mambalam" for III year on 20.08.2025



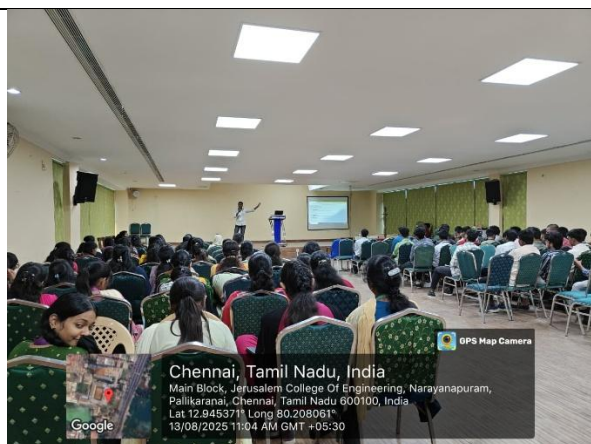
A Guest Lecture on " Cyber Awareness " by Mr.V.Karthikeyan, CEO, Cappricio Securities, Chennai on 05.08.2025



Ms.Sumana T and Ms.Dharani M attended "Industry Interface Program" at Intellect Design Arena organized by Computer Society of India



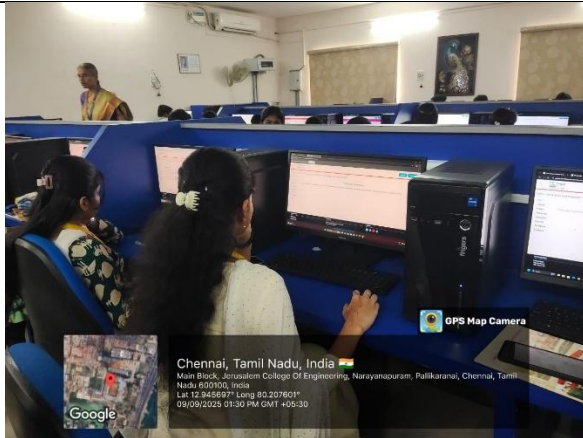
Guest Lecture on "A talk on Ethical Hacking" by Mayavannan M, CyberFort DigiSec Solution Private Limited, for IV year on 11.08.2025



Two days workshop on "Frontend Development" by Mr Shaik Jameer, Mr Naveen Kumar M ,SBV Technologies Pvt Ltd,Chennai for III year on 13.08.2025 and 14.08.2025



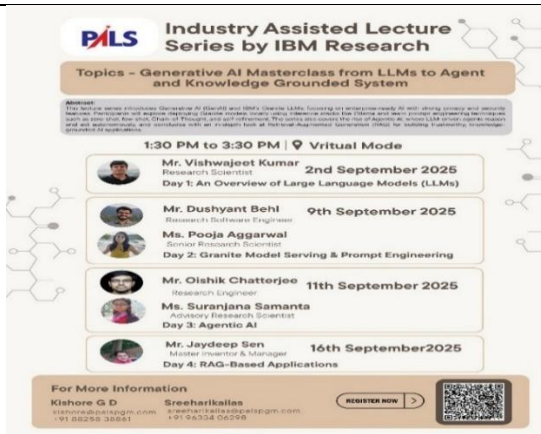
Seminar on "Agentic AI" by Mr.Mithran J, Sr.Devops Solution Architect ,Verizon for IV year on 09.09.2025



Awareness Sessions on **Virtual Labs** transforming Teaching & Learning in the Digital Era for II,III,IV year from 08.09.2025 to 12.09.2025



Engineer's Day Celebration organized by The Institution of Engineers(IEI) Dr.J.Balamurugan ,Chairman-IE(I),Thiruvallur Local Centre on 17.09.2025



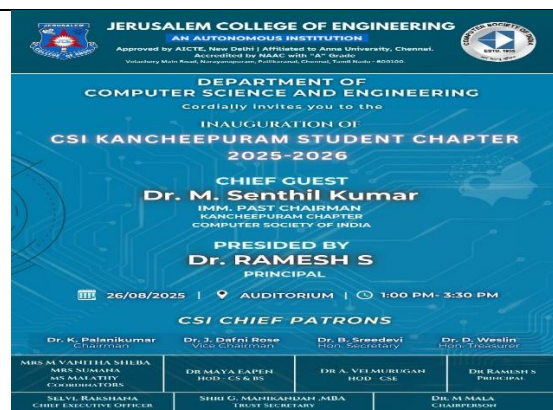
Four days Industry Assisted **Lecture Series** by IBM Research.



Internal Hackathon on 16.09.2025



Industrial Visit to **"SPACEZONE INDIA, Thaiyur"** for IV year on 03.09.2025.



Inauguration of "CSI Kancheepuram Student Chapter 2025-2026" by Dr. Senthil Kumar,IIM Past Chairman, Chennai on 26.08.2025.



Parent-Teacher Meeting on 20.09.2025



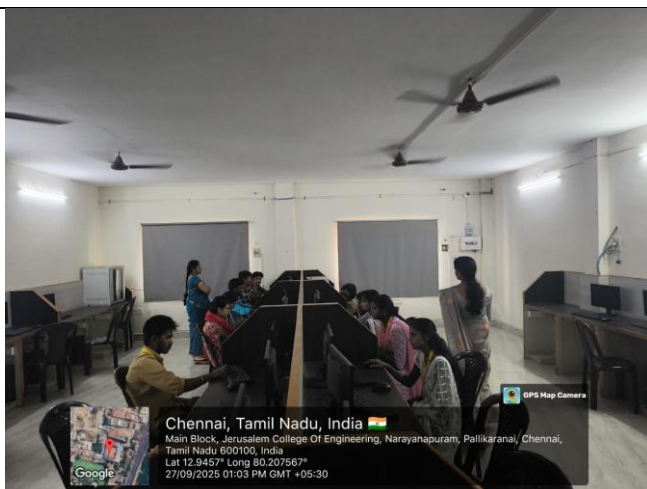
An Inter Collegiate National Level Technical Symposium **TECHNOVANZA '25-26 on 10.10.2025**



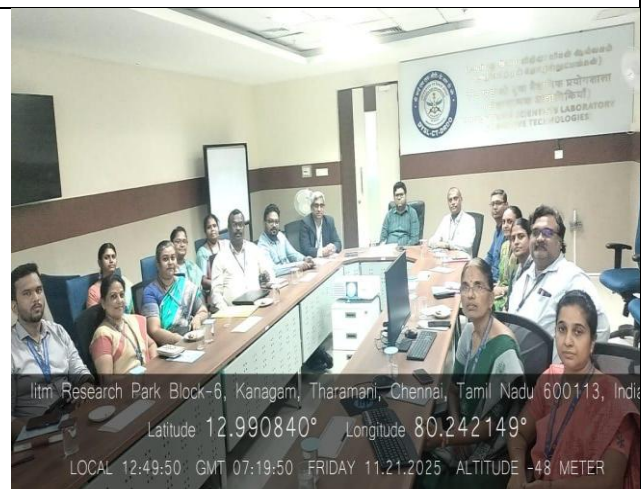
Session on Vibe Coding conducted by Coding Club on 27.09.2025



Innovation Club activity on 27.09.2025



Multimedia Club activity on 27.09.2025



Dr.Dhanalakshmi presented DRDO project at IITM Research Park, Chennai on 21.11.2025

2. Patent Filed

S.No	Name of the Investigator	Title	Granted
1	Dr.T.Dhanalakshmi Ms.Anitha P Ms.R.Chitra Devi Ms.Sumana T Ms.Devipriya S Ms.M.Aishwarya. Ms.K.Shenbagavalli	Secure IoT Gateway For Multi-Device Integration and Data Protection	26/09/2025
2	Ms. P. Mahalakshmi Ms. Maria Jeraldin Sindhia. M. Ms. C. Needhu. Ms. J. Rajeshpushpa. Ms.K. Shenbagavalli Ms. M. Dharani	Automated Diagnostic System Based on Explainable AI Techniques	17/10/2025
3	Ms.C.Needhu	Ai-Enhanced Predictive Maintenance System For Industrial IOT Using Hybrid Time-Series Modeling	28/11/2025

3. Books/ Book Chapters Authored by Faculties

S.No	Name of the Author	Title of the Book	Publisher
1	Dr.D.Divya	Securing Cyber-Physical Systems, Fundamentals, Applications and Challenges	Scrivener Publishing

4. Publications of Papers in Conferences

Sl. No	Name of the Faculty	Title	Journal	Date
1	Ms.Chitra Devi	Fitness App: A Customized Workout Recommendations based on the user's Fitness Objectives	Greze International Journal of Engineering and Technology	June 2025

5. Conferences Attended by faculties

Sl.No	Name	Title	Name of the Institution	Date
1	Dr.A.Velmurugan	INTRVUE AI: AI-Powered Live Interview Platform for Bias-Free and Efficient Hiring	IETEND 2.0	Sept 2025

2	Dr. D. Divya V	An emergency SOS system using ble for offline crisis communication	IETEND 2.0	Sept 2025
3	Dr.D.Divya	Signsiamnet: offline signature verification using RESNET18 and siamese network	IETEND 2.0	Sept 2025
4	Ms H. Mercy	Edguard: A Defense Mechanism to Prevent Digital Abuse and Shield the Digital Safety of Children	IETEND 2.0	Sept 2025
5	Ms.Devirpiya S	MinSaver - Smart Electricity Monitoring System	IETEND 2.0	Sept 2025
6	Ms.Devirpiya S	Efficient machine learning approach for crime detection in India	IETEND 2.0	Sept 2025
7	Ms.Vanitha Sheba M	X-Forensics: The Future of Cloud Monitoring and Threat Attribution~ ML-Driven Evidence Security and Actor Tracking	IETEND 2.0	Sept 2025
8	Ms.Vanitha Sheba M	Smart assistive technologies for inclusive communication and learning	IETEND 2.0	Sept 2025
9	Ms.P.Mahalakshmi	AVATAR COMPANIO	VIPS.Tech	Oct 2025
10	Ms.P.Mahalakshmi, Ms.Maria Jeraldin Sindhia, Ms.Vanitha Sheba, Ms.Devipriya, Ms.Mercy	EMOTCHY GLASS	ICCDS-2025	Nov 2025
11	Ms.P.Mahalakshmi	LIDAR Data Filtering Enhancing Techniques Development and Validation by Deep Learning	CONIT	Sep 2025
12	Mr.Javed N	Zero -Knowledge Proof on Blockchain to Boost Digital Defenses	ICCSP	June 2025
13	Mr.Javed N	Cloud Integrated IoT Traffic Data Streaming System	ICGTETA'25	Sept 2025

14	Dr. D. Divya V	Smart Prediction of Cardiac Conditions by Integrating Binary Classification and Data Privacy in Healthcare Analytics	ICCDS	July 2025
15	Ms.M.Maria Jeraldin Sindhia	Spherical Convolutional Masker-Net Osprey Optimization Algorithm for Accurate identification of Crops Diseases in Smart Agriculture.	ICIRCA-2025	June 2025
16	Ms.P.Mahalakshmi	IloTHRT: Experimental Analysis of Heart Rate Tracking Methodology using Intelligent Sensors and Internet of Things Assistance	ICSCSS 2024	Oct 2025
17	Ms.M.Aishwarya	Large language model AI text generation detection based on transformer deep Fast Quantum Convolutional Neural Network	ICIRCA-2025	June 2025

6.FDP Attended by the Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	Mr.Javed.N Ms.P.Mahalakshmi	5 Days FDP on OBE Research Empowerment through Technology	KCG College of Technology	01.07.2025 to 05.07.2025
2	Mr.Javed.N	AI Agent in action , Design, Decision Making and Development	KCG College of Technology	23.07.2025 to 27.07.2025
3	Mr.Javed.N	Next Gen IT Practices: Tools, Trends and Transformation	BIHER, Selaiyur	30.06.2025 to 05.07.2025
4	Ms.H.Mercy Dr.Divya.D	AICTE Sponsored ATAL FDP on "Accreditation, Ranking & NEP: Strategies for Academic Excellence"	Jerusalem College of Engineering	14.07.2025 to 19.07.2025

5	Ms.M.Vanitha Sheba Ms.S.Devipriya	FDP: Bio-inspired computing and intelligent Optimisation: Binding Nature and AI	Sairam institute of Technology	21.07.2025 to 26.07.2025
6	Dr.T.Dhanalakshmi Ms.P.Mahalakshmi Ms.M.Maria Jeraldin Sindhia Ms.J.Rajeshpushpa	Three Days Workshop on "Faculty Orientation Program on Quality Improvement"	Jerusalem College of Engineering	07.07.2025 to 09.07.2025
7	Ms.J.Rajeshpushpa	6 Days FDP on "AI impact on Transferring Software, Robotics, Electrical & Mechanical field"	Dhanish Ahamed College of Engineering	21.07.2025 to 26.07.2025
8	Ms.P.Mahakalshmi Dr.Divya Ms.M. Maria Jeraldin sindhia	ATAL FDP 6 days on Secure and Explainable Generative AI for Medical IoT Data Analytics	NIT Puducherry	25.08.2025 to 30.08.2025
9	Ms.M.Vanitha Sheba Ms.Devipriya Ms.H.Mercy, Ms.M.Aishwarya Dr.Divya	ATAL Next-Gen Intelligence: AI Applications in Industry, Academia, and Beyond	St.Joseph's Institute of Technology	08.09.2025 to 13.09.2025.
10	Ms.R.Chitra Devi Ms.C.Needhu Ms.K.Shenbagavalli Ms.J.Rajeshpushpa	Advancing with Agentic AI & Prompt Engineering : Next -Gen Capabilities for teaching & research	Sai Ram College of Engineering	15.09.2025 to 19.09.2025
11	Ms.J.Rajeshpushpa	Online FDP on AI Impact Across Industries by IIT PALS	IIT PALS	18.11.2025 to 20.11.2025
12	Ms.M.Maria Jeraldin Sindhia Ms.Anitha.P Ms.Dhanalakshmi.T	Five day National Level Online FDP on "Advances in Artificial Intelligence and Emerging Research Frontiers"	Sri Venkateshwara College of Engineering, Sriperumbudur	24.11.2025 to 28.11.2025
13	Ms K.Shenbagavalli	Empowering the Digital Era Through Advances in Artificial Intelligence, Data Science and Automation	Sri SaiRam Engineering College Chennai	28.11.2025 to 04.12.2025

7.Seminars/Workshop Attended by Faculties

S.No	Name of the Faculty	Title	Name of the Institution	Date
1	Dr.T.Dhanalakshmi, Ms.P.Mahalakshmi, Ms.M.Maria Jeraldin Sindhia Ms.J.Rajeshpushpa	Three Days Workshop on "Faculty Orientation Program on Quality Improvement"	Jerusalem College of Engineering	07/07/2025 to 09/07/2025

8.Certificate Courses Completed by Faculties

S.No	Name of the Faculty	Title	Name of the Institution	Date
1	M.Vanitha Sheba	Ethical Hacking	NPTEL-SWAYAM	Nov 2025
2	Ms.M.Maria Jeraldin Sindhia	Cloud Computing	NPTEL-SWAYAM	Nov 2025
3	Ms.M.Dharani	Artificial Intelligence: Concepts and Techniques	NPTEL-SWAYAM	Nov 2025

9.Club Activities

Sl. No	Name of the Club	Event Name	Year
1	Computer Society of India	ThinQnique Internal Hackathon	II,III,IV

10.Activities of the Students

S.No	Name of the student	Institution	Name of the Event	Position	Date
1.	Rajalakshmi M	Livewire,Mylapore	Android App Development Workshop	Participation	05-07-2025
2.	Pranesh P	Aalim Muhammed Salegh College of Engineering	AMSPHERE-ZEHINEX 25	Runner	27-09-2025
3.	Vishal S	KCG College of Technology	Innothon'25	Participation	26-09-2025 & 27-09-2025

4.	Ukesh R	KCG College of Technology	Innothon'25	Participation	26-09-2025 & 27-09-2025
5.	Shyam S	KCG College of Technology	Innothon'25	Participation	26-09-2025 & 27-09-2025
6.	Suriyaprakash S C	KCG College of Technology	Innothon'25	Participation	26-09-2025 & 27-09-2025
7.	Santhosh	Easwari Engineering College	CREONIX'25	Participation	26-09-2025 & 27-09-2025
8.	Sanjay Rajan S	Aalim Muhammed Salegh College of Engineering	AMSPHERE-ZEHINEX 25	Participation	27-09-2025
9.	Rohitraja S	LOYOLA-ICAM College of Engineering and Technology	Capture the Craft Table	Participation	23-08-2025
10.	Rajasri R	St.Joseph's Institute of Technology	Cybertrix 2025	Participation	13-09-2025
11.	Nirmal Kumar M	Aalim Muhammed Salegh College of Engineering	AMSPHERE-ZEHINEX 25	Participation	27-09-2025
12.	Nandini J	Sololearn	Introduction to Python	Participation	15-08-2025
13.	Madhumathi P	Central Institute of Tool Design Hyderabad	One day Entrepreneurship in education:Building Future Leaders-EAP	Participation	31-10-2025
14.	Madhumathi P	NoviTech R&D Private Limited	Road Map to become a Data Analyst and AI Developer	Participation	08-06-2025
15.	Dhanalakshmi P	Sai Ram Institue of Technology	Cinelytics	Participation	22-09-2025
16.	Dhanalakshmi P	Sathyabama Institute of Science and Technology	XR SPARK	Participation	11-09-2025 to 13-09-2025

17.	Devashri	Sai Ram Institue of Technology	Cinelytics	Participation	22-09-2025
18.	Siva Sakthi P	St.Joseph's Institute of Technology	Cybertrix 2025	Participation	13-09-2025
19.	Senthamizh Selvi	St.Joseph's Institute of Technology	Cybertrix 2025	Participation	13-09-2025
20.	Aravinth G	RTech Solution	Python Full Stack Development	Course Completed	05-06-2025 & 06-06-2025
21.	Aravinth G	Microsoft	Introduction to generative AI concepts	Participation	17-06-2025
22.	Aravinth G	Infosys	CSS3	Course Completed	09-06-2025
23.	Aravinth G	Infosys	Javascript	Course Completed	14-06-2025
24.	Aravinth G	Infosys	HTML5-The Language	Course Completed	06-06-2025
25.	Akshiya K	The Institution of Electronics and Telecommunication Engineers Chennai Centre	INTEND 2.0	Participation	19-09-2025 & 20-09-2025

11.Students Achievements (Intra-College):

S.No	Name of the student	Name of the Event
1	Mahalakshmi B	CEREBRAL SPRINT
2	Kishore JJ	CEREBRAL SPRINT
3	Nandini J	EUREKA'25 INTRA COLLEGE PITCH DECK COMPETITION
4	Madhumathi P	Remote Work and Data Privacy

12.Internship/In-Plant Training/Webinar

- ✓ Mr.Rasin Karthick S CSE student successfully completed two months internship at Elewayte in Python during June-July 2025.
- ✓ Ms.Aarthi ,Ms.Ezhilarasi and Ms.Kiruthika R CSE student successfully completed one day training on Offensive hacking and cyber awareness at Capriccioso University on August 05,2025.

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