

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

JANUARY-JUNE 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)

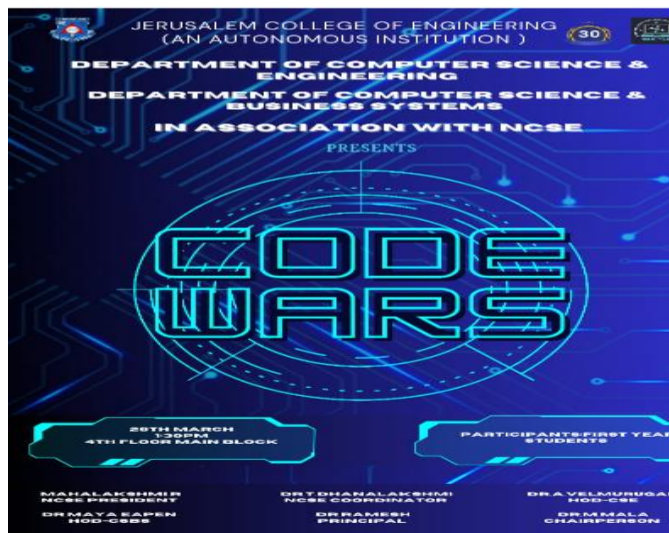
PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

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)

SYMPOSIUM / CONFERENCE / WORKSHOPS /SEMINARS ORGANIZED BY THE DEPARTMENT



The NCSE association has planned Project Expo 25-03-2025, in the CSE classrooms (M205 & M206). And The event was judged by Dr. S. Arun, Professor & Dean R&D, and Dr. Sofia Bobby, Professor, BME. The event was coordinated by faculty members Dr. D. Divya, Dr. T. Dhanalakshmi, Ms. H. Mercy, and Ms. S. Devipriya, with Dr. A. Velmurugan (HOD-CSE) and Dr. Maya Eapen (HOD-CSBS) overseeing the event.

The NCSE association has planned a series of events CODE WARS on the 28-03-2025 in Lab-47 for II year students, organized by Dr.T.Dhanalakshmi



In CSI association organized a CODE UNRAVEL in the topic of Byte The Code: Where Logic Meets Speed, on 06.03.2025 by Ms. M. Vanitha Sheba.



In CSI association organized a NETWORKING & COMMUNICATION in the topic Fostering Creativity And Disruption In Business on 02.04.2025 by



In CSI association organized a POSTER – ON in the topic of Visions In Pixels: Creativity Meets Innovation, on 23.03.2025 was judged by Dr. M. Senthil Kumar Chairman, CSI kanchipuram chapter, organized Ms. M. Vanitha Sheba.

Mr.A.Ashwin Product Support, Revature,
Chennai Ms. M. Vanitha Sheba, Ms. S. Devipriya,
Ms. H. Mercy,



The Industrial Visit to Visvesvaraya Industrial and Technological Museum, Bangalore (VITM), was organized on 14 th of April 2025 for a total of 109 students from the department of CSE (II year and III year).



Industrial Visit to SIPCOT Industrial Park Sriperuudur ,Chennai on 05-02-2025 with II B Year students.



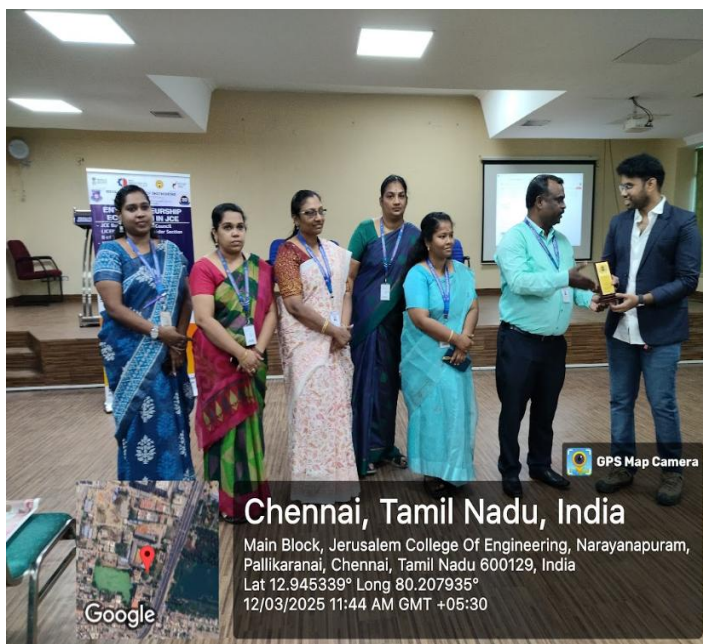
Industrial Visit to SIPCOT Industrial Park Sriperuudur ,Chennai on 04-02-2025 with II A Year students.



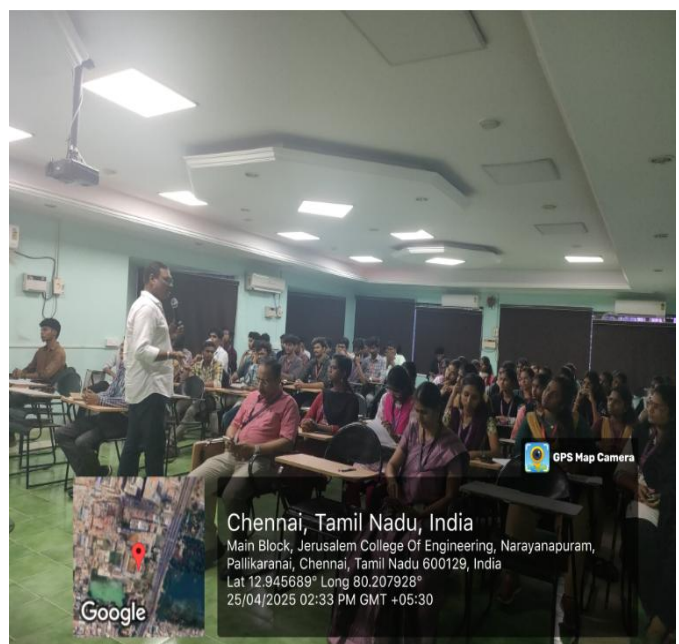
One-day Industrial visit to SANSBOUND NETWORKING, West Mambalam Chennai on 31-01-2025 with III A year students of CSE Department



One-day Industrial visit to SANSBOUND NETWORKING, West Mambalam Chennai on 30-01-2025 with III A year students of CSE Department



Guest Lecture on CI/CD Pipelines on AWS by Mr.J.Mithran DevOps Architech Lexix Nexix Risk Solution for III CSE JCE on 12.03.25 organized By Mrs.K.Shenbagavalli, Ms.J.Rajeshpushpa, Ms.R. Chitra Devi



Guest Lecture on Competitive exam demystified : A Blueprint for college students to civil service by Mr.S.Lawrence jeyakumar(Senior Career Consultant GTN Academy) on 25.04.2025 organized By Mr.N.Javed



Workshop on “Data Science And Data Analytics Workshop” by Mr.J.GowriShankar, Data Engineer, Deloitte India Data Engineer Deloitte India on 13.03.2025 and 14.03.2025 organized by Mr.N.Javed , Mrs.C.Needhu, Mrs.K.Shenbagavalli .

SANCTIONED FUNDED PROJECTS

Sl. No	Name of the Investigator	Title	Amount	Year applied
1	Ms.H.Mercy	Smart Wearable Safety Device For Women: Integrating Real- Time Location Tracking , Health Monitoring and Emergency Response Features Using IOT Technology	7500	2024-2-205

PATENT FILED

Sl. No	Name of the Investigator	Title	Amount	Year applied
1	MS.M.Aishwarya Ms.J.Rajeshpushpa. Ms K.shenbagavalli	Advanced Frequency Synthesizers For Enhanced Communication System Performance		06.12.2024
2	Ms.M.Maria Jeraldin Sindhia	Machine Learning Model for Automated Decision making in IOT networks		12.03.2025

BOOKS/ BOOK CHAPTERS AUTHORED BY FACULTY MEMBERS

Sl. No	Name of the Author	Name of the Book	Publisher
1	Ms.C.Needhu	Sustainable Development Using Private AI	Taylor & Francis: A Research Study On Concepts & Applications Of Artificial Intelligence: Governance In Smart Cities

PUBLICATIONS OF PAPERS IN CONFERENCES/JOURNALS

Sl. No	Name of the Author	Title	Name of the Journal	Date
1	Dr.D.Divya	Enhanced Smart Weather Prediction through Advanced Atmospheric Analysis and Forecasting Techniques using Binarized Spiking Neural Networks	Springer: Knowledge and Information Systems	Jan 2025
2	Ms.C.Needhu, Ms.B.Shenbagavalli, Ms. M. Aishwarya	A Comprehensive Unique study of an IoT-enabled Rehabilitation methods for patients and the elderly citizens	Hinweis Third International Conference on Advanced Research in Engineering and Technology (ARET)	Jan 2025

3	Ms.H.Mercy	Smart IoT Safety Wearable for women : tracking health and alerts	ICASTM-II - 2025	APRIL 2025
4	Ms.H.Mercy	Farm Fusion of crop recommendation system using CNN and MLP	ICA6NT 25	APRIL 2025
5	Ms.H.Mercy	Navigation Augmented reality with visual Intelligence system	Second international conference on innovative research and engineering sciences	APRIL 2025
6	Ms. K.Shenbagavalli	Data driven crop yield for forecasting using meteorology and pesticides	Second International Conference on Artificial Intelligence ,G5 Communications and Network Technologies	APRIL 2025

OFFLINE FDPS ATTENDED BY FACULTY MEMBERS / ANY SPECIFIC FDPS

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	Ms.H.Mercy, Ms.M.Vanitha Sheba, Ms.S.Devipriya, Mr.N.Javed, Ms.M.Aiswarya	ATAL Cutting Edge Insights Into Artificial Intelligence And It's Application	Easwari Engineering College	16.12.24 TO 21.12.24
2	Dr.T.Dhanalakshmi	ATAL FDP - Applications of AI for a Better Tomorrow	VIT, Vellore	09.12.2024 TO 14.12.2024
3	Ms.J.Rajeshpushpa, Ms.R. Chitra Devi, Ms. K.shenbagavalli	ATAL FDP -Responsible AI	PSGCE , Coimbatore	09.12.2024 TO 14.12.2024
4	All CSE Faculty Members	Innovative Pedagogy and Advancing Industrial & Research Excellence for Engineering Educators	JCE	21.12.2024 & 22.12.2024
5	Ms. M. Maria Jeraldin sindhia	ATAL FDP-Emerging Trends in Information security using AI and data science	Guru Nanak Dev Engineering College, Ludhiana	30.12.2024 TO 3.1.2025

6	Ms.J.Rajeshpushpa, Ms.R. Chitra Devi	PALS Special Session On Emerging Defence Technologies	IITPALS	6.12.24
7	Ms. M. Maria Jeraldin sindhia R. Chitra Devi, Ms. k. shenbagavalli. Dr.T.Dhanalakshmi	PALS Special Session on Entrepreneur speaks	IITPALS	05.12.24
8	Ms.P.Mahalakshmi	ATAL The Future Of Quantum Computing	PSV College Of Engineering And Technolgoy	23.12.24 TO 28.12.24
9	Ms.C.Needhu	ATAL Responsible AI driven solutions for Modern Cybersecurity Challenges	Ramco Institute of Technology	16.12.24 TO 21.12.24
10	Ms.C.Needhu	ATAL Reconfigurable Intelligent Surfaces for 6G wireless communication.	National Institute of Technology	23.12.24 TO 28.12.24
11	Ms.M.Aishwarya, Ms.M.Vanitha Sheba, H.Mercy, Dr.D.Divya Ms.M.Maria Jeraldin Sindhia Ms.S.Devipriya, Ms.Mahalakshmi P	ATAL AI and Quantum Computing:Glimpsing the Near Future	Sri Sairam Engineering College	20.01.2025 TO 25.01.2025
12	Ms.k.Shenbagavalli	Transforming idea in to digital success word press feedback tools and GPT Application	PSG College	08.01.2025 TO 10.01.2025
13	Ms.k.Shenbagavalli, Ms.J.Rajeshpushpa	ATAL Generative and Ethical AI: Techniques and Applications with Hands-on	NIT Trichy	22.01.2025 TO 28.01.25
14	Ms.M.Vanitha Sheba	Machine Learning And Advanced Techniques: Concepts, Algorithms, And Applications	Manipal Academy of Higher Education , Bengaluru	28.01.25 TO 30.01.25
15	Dr. V.J. Subashini	Full Stack Development using Python Framework – Django	Inspire Softech Solutions, Chennai	23.12.2024 TO 04.02.2025

CERTIFICATE COURSES COMPLETED BY FACULTY MEMBERS

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1.	Ms.M.Aishwarya	Deep learning – IIT Ropar	NPTEL	April
2.	Ms. M.Vanitha Sheba	Cryptography And Network Security	NPTEL	April

MOUs

Sl. No	Name of the Institution	Title	Date
1.	SBV Technologies PVT LTD	--	7.5.2025

EDITORIAL BOARD

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Ms.Ragavi S, IV CSE B

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