

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 2023

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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)

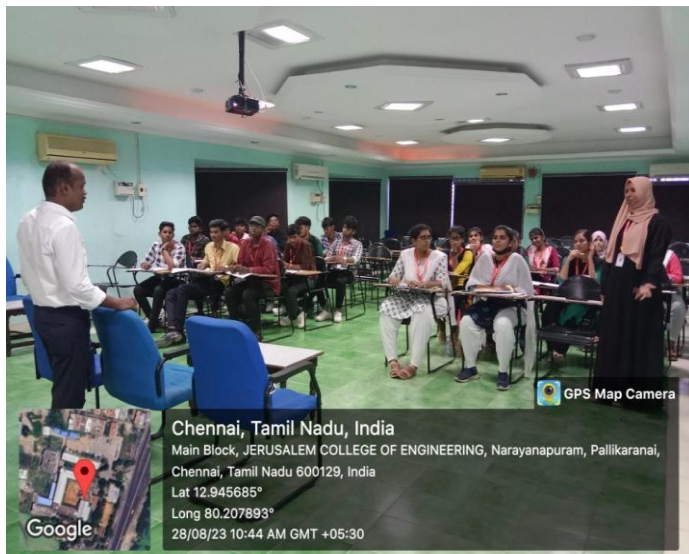
PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

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

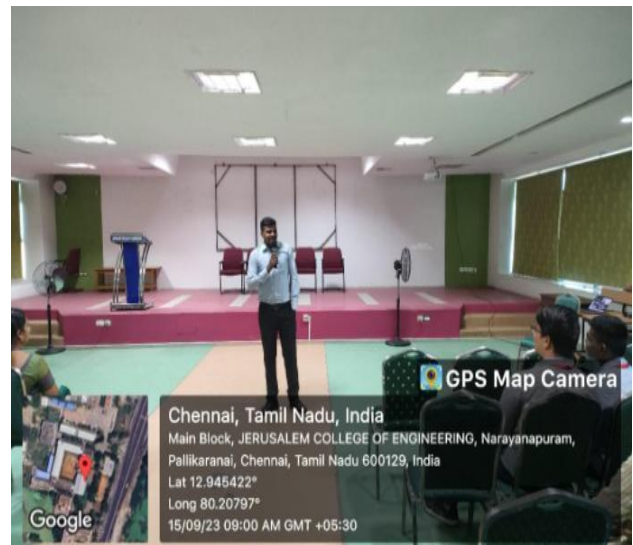
PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

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



Guest Lecture on **Mathematical Model of Recursive Analysis** by Dr.S.Saravanan, Saveetha School of Engineering, , Chennai for CSBS Students on 28.08.23 organized by Dr.D.Divya.



Guest lecture on Devops Culture by Mr. Manikandan Ayyakkannu, Senior Test Analyst,UST global, Chennai for II year - CSE & CSBS students on 15.09.23 organized by Ms. Sinduja. B.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Organizes Guest Lecture on
Virtual Machines on Cloud Computing

Resource Person
Mr.M.Thanikachalam
Senior Technical Architect
TCS - Chennai

Date:
15.09.23
Venue:
Auditorium
Time
10:10AM-11.30AM

participants
Final year students

Coordinators: Mr.N Javed CSE, Ms. M.Aishwarya CSE
CONVENER: Dr.Maya Eapen HOD,CSE
PRINCIPLE: Dr.Ramesh S
CHAIRPERSON: Dr M Mala

Guest Lecture-**Virtual machines on Cloud Computing** by Mr. M. Thanikachalam, Senior Architect,TCS Chennai for Final year students on 15.09.23organized by Mr. N. Javed and Ms. M. Aishwarya.



A Seminar on **End-Point Security** by Mr.Bharathi Subramaniam, Cyber Security Analyst WIPRO Limited, Chennai for III Year students on 30.08.23 organized by Mrs.M.Vanitha Sheba and Mrs.S.Devipriya.



Seminar on **GATE way for PSU career Opportunities** by Mr. Pabba Ramesh, Sr. Faculty EE Engineering, ACE Engineering Academy, Chennai for II, III, IV students on 15.09.23 organized by Mr. N. Javed.



Seminar on **A Key to success in collaboration with Innovation Club** by Dr. Sujatha Director of Institute of Societal & contemporary Computing, Wenzhou Kean University Zhejiang Province for IV students of on 01.09.2023 organized by Mrs. H. Mercy, Mrs. M. Vanitha Sheba and Mrs. S. Devi Priya.



A Career Orientation Program on **Better Communication Leads to Better Life** by Mr. Biplob bhakta, Vice President, Ebek India, Chennai for II, III, IV students on 27.09.23 organized by Mr. N. Javed.



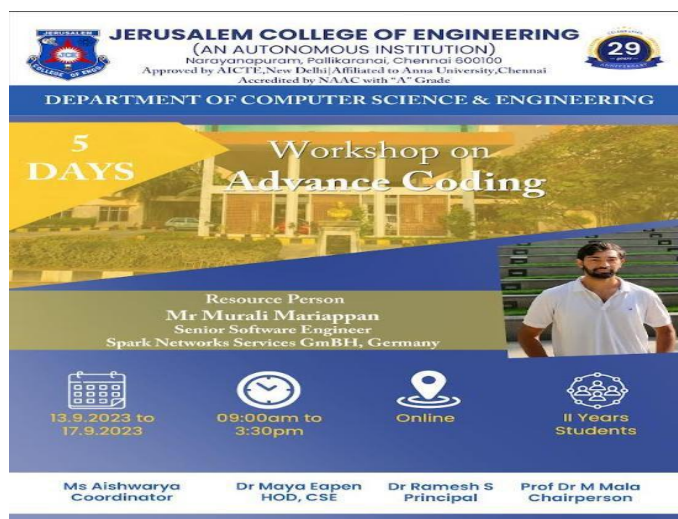
Seminar on **ABCD of Trending Technologies** by Mr. Vasu, CEO & Founder iconGen IT Solutions Chennai for II CSE, CS&BS students on 10.11.23 organized by Ms. S. Devipriya.



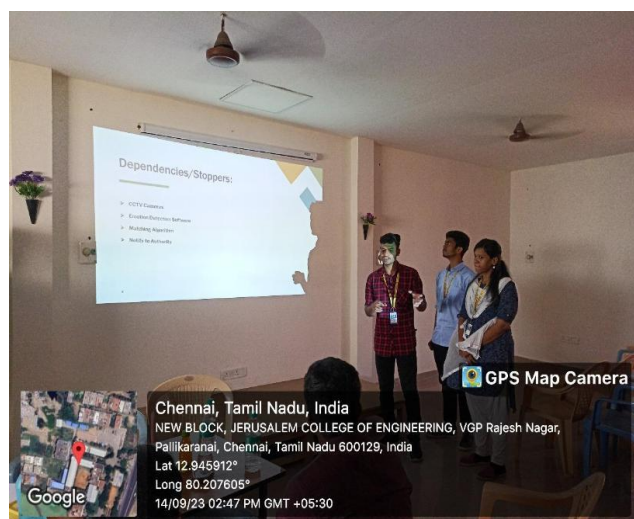
Seminar on **The Tree of Knowledge: Exploring Data Structures and Tree Concept** by Dr.K.Ananthajothi, Rajalakshmi Engineering College Chennai for II CSE, CS&BS students on 4.09 2023 organized by Ms. S.Devipriya and Dr.D. Divya.



In association with Computer Society of India conducted Inter departmental SQL based coding Competition **Survivors of Query** on 11.09.2023.



Workshop on **Advanced Coding** by Mr.Murali Mariappan Senior Software Engineer Spark Networks Services GmbH, Berlin, Germany for II year students from 13.09.2023 to 17.09.2023 organized by Mrs.M.Vanitha Sheba.



Smart India **Hackathon 2023** is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mind-set of problem solving conducted on 14.09.2023.



A National level technical symposium **MINDSURF'S TEKGLITZ 2k23** on 14.10.2023. The Chief Guest for the Inauguration ceremony was Mr. Muthukkumaran Murugan, Technical Manager, HCL Technologies, Chennai.



Industrial Visit to NIOT Ocean Technology pallikaranai, Chennai on 08.09.2023 with II Year students.



Industrial Visit FORT, SIPCOT, Phase - IV, Mambakam, Sriperumbudur Chennai on 26-10-2023 for the III Year students.

2. Patent Filed

Sl. No	Name of the Investigator	Title	Year applied
1	Dr.Maya Eapen, Dr.D.Divya, Ms.Mercy, Dr.R.Vanitha	Automated Criminal Face Recognition System	20-10-2023
2	Dr.T.Dhanalakshmi	Intensity Predition for COVID-19 Tweets	20-10-2023

3. Books Authored by Faculties

Sl. No	Name of the Author	Name of the Book	Publisher
1	Mrs. B. Sinduja	A beginner's guide for network security	Pandit Publications

4. Publications of Papers in Journals

Sl. No	Name of the Author	Title	Name of the Journal	Date
1.	Dr.T.Dhanalakshmi	Provenance Based Trust Boosted Recommender System Using Boosted Vector Similarity Measure	Transactions on Fuzzy Sets and Systems	Nov 2023
2.	Ms.Vanitha R, Ms.Divya D , Dr.Maya Eapen Ms.Murugeshwari B	Prediction Of Plant Growth Based On Smart Aquaponics System	Journal of Data Acquisition and processing	Dec 2023
3.	Mr.N. Javed	A Hybrid Blockchain-Iot Approach for Privacy Preserving Healthcare Data Sharing	Ieee Chapter, Smart Energy New Insightsin Sustainable Environment With Policies	Sep 2023
4.	Mr.N. Javed	Seamless Convergence: Optimizing IoT Data Streaming for Cloud Computing Excellence	Internatonal Conference on Multidisciplinary research and development (ICMRD 2023)	Sep 2023

5. Faculties as Resource Persons

Sl. No	Name of the Resource Person	Title	Name of the Institution	Date
1	Dr Maya Eapen	Pixels to predictions: Machine learning in Medical Imaging	VIT- Chennai	15.12.23

6. Faculties as Chair Persons

Sl. No	Name of the Resource Person	Title	Name of the Institution	Date
1	Dr.T.Dhanalakshmi	Expert Talk on Machine Learning Basics, organized by Department of AIDS	Sri Sairam Engineering College	14.07.2023

7. Conferences Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	Mr. N. Javed	International Conference on Multidisciplinary research and development (ICMRD 2023)	Universiti Teknologi MARA (UiTM) Cawangan Selangor, Kampus Puncak Alam, Malaysia	13.9.23 - 15.9.23
2	Mr. N. Javed	Institution Collobration Discussion	Universiti Tenaga Nasional is a private university, located in Selangor, Malaysia, with GLC university status.	16.9.23
3	Mr. N. Javed	Institution Collobration Discussion	INTI International University & Colleges are private university colleges located in Malaysia.	18.09.23

8. Workshops Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	S.Devipriya	Completed two Days workshop in Mobile Application Development with Flutter and Dart	Marcello Tech (Online)	24.10.23 & 25.10.23

9. FDPs Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	Dr Maya Eapen, Ms.Jetlin C P Dr.T.Dhanalakshmi Mr. N Javed Ms.Vanitha Sheba M Mrs.S.Devipriya	Automation and Analytics in Smart healthcare	Jerusalem college of Engineering	11.12.2023-15.12.2023
2	Dr.D.Divya, Ms.C.Needhu, Ms.Aishwarya	National FDP on Chat GPT and Prompt Engineering	EXCELR	18.12.23-22.12.23
3	Dr Maya Eapen	Modern Research Convergence in Next Generation Computing	SRM	18.12.2023-22.12.2023
4	Dr.D.Divya, Ms.C.Needhu, Ms.B.Shenbagavalli	Participated in 30 Hours National Faculty Development Program on Cyber Security	Chaitanya Bharathi Institute of Technology	25.9.2023-14.10.2023
5	Dr.D.Divya Mrs.M. Vanitha Sheba Mrs.Devipriya.S Mrs.H.Mercy	National Level One week FDP on "Cloud Infrastructure (AWS)"-Online	Host Institution- SRM Institute of Science and Technology	21.08.2023-25.08.2023
6	Ms.M Vanitha Sheba Ms.S Devipriya	Two week international FDP on RESEARCH TOOLS	Online	3.7.2023-14.7.2023
7	Ms.H.Mercy	One week national level FDP on "Chat GPT and AI Tools"	Online	19.07.2023-26.07.2023

EDITORIAL BOARD

STUDENT COORDINATORS

Mr.Balaganesh S,
Ms.Lavanya Mala A,
Ms.Poornima A,
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Dr.D.Divya, Associate Professor ,CSE