

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 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 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.

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



Organized FDP on **Exploring cutting -edge technology trends** in software industry from 12.06.2023 to 16.06.2023 and the Resource persons are Mr.V.Sasikumar, Capgemini. Dr.ShinyDuela, SRMIST. Dr.R.Geetha, SRMIST, Mr.Sudeesh Sankaravel VERIZON.



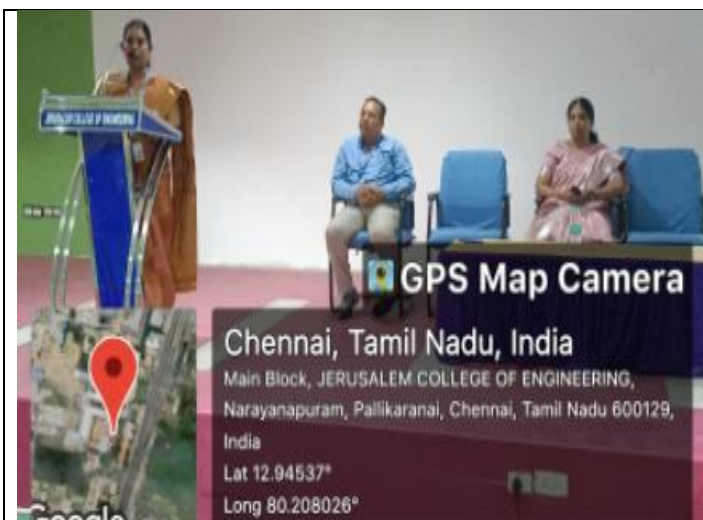
A Seminar was organized on **Clouds and DevOps** for the II and III year students of CSE department on 24.01.2023 with Mr. Arbaz Shaikh as resource person.



Seminar on **Fullstack** for the III year students of CSE department on 24.01.2023 with Mr.Vinod Kumar, centre head, Anudip Foundation, Chennai as Resource Person.



Seminar on **Basics of Python Programming** for I year students of CSE department on 11.05.23 & 12.05.23 Mr.A.Jayakumar Placement Manager Senior Technical Livewire as Resource Person organized by Dr.T.Dhanalakshmi.



A Guest Lecture on **Clustering in Datamining** was organized for II year, III year & IV year students on 14.03.2023 and the resource persons was Dr. R. Beulah Jayakumari Prof & Head, Dept of IT, Tagore Engg. College and organized by Dr.R.Vanitha and Mr. N. Javed.



Alumni Meet was conducted by Computer Science and Engineering Department on 29.01.23.



A club activity was organized associated with coding club presents **FIND BUDDY-A DEBUGGING COMPETITION** on 'C' and 'JAVA' on 15.03.23.



Second year students has gone for **Industrial visit** to **Retech Solutions Pvt. Ltd** on 31.01.23 Varadharajapuram.



Second year students has gone for **Industrial visit** to **Sansbound Solutions Pvt. Ltd** on 06.02.23



Students From IV Year Section has gone for **Industrial Visit** In **ISRO, Sriharikotta, AP** on 28.02.23

2. Funded Projects and Research Work

Sl. No	Name of the Investigator	Topic	Amount	Year
1	Dr.Maya Eapen	Design and Implementation of Automated Criminal Face Recognition (TNSCST)	7,500	2023
2	Dr.G.Sasikumar Dr.S.Arun	Sewage Worked Health Monitoring Using Android Application (Securra Infotech)	1,00,000	2023

3. Publications of Papers in Journals

Sl. No	Name of the Author	Title	Name of the Journal	Date
1	Mr.N.Javed Ms.Suchitra Ms.Varshitha	Agriculture Crop Health Analysis and Fertilizer Recommendation Using Cloud, AI,AR and Image Processing	ICRASEM-2023	Jan 2023
2	Ms.Sowmiya K Ms.Esther Janet Delicia R	Automatic Door Opening System with Smart Attendance	ICRASEM-2023	Jan 2023
3	Ms.Pavithra B Mr.Selvamani S Mr.Shivam Kumar M Mr.Sivasairam S Mr.Vinoth T	Automatic Vehicle Number Plate Recognition Using OCR	ICRASEM-2023	Jan 2023
4	Ms.M.Vanitha Sheba Ms.Devisravanthi Ms.Keerthana N Divyasri	Prediction Of Soil Contamination Using Machine Learning	ICRASEM-2023	Jan 2023
5	Ms.M.Vanitha Sheba, Ms.Viyanney Maria Joseph, Ms.Subhiksha, Ms.Sivamalini	Design And Implementation of Online Service Provider	ICRASEM-2023	Jan 2023
6	Dr.T.Dhanalakshmi, Ms.Safeena Thalath, Ms.Sivasankari R Ms.Shanmuga Priya S	TamilNadu Rainfall Trend Analysis –A Non-Parametric Based Approach	ICRASEM-2023	Jan 2023

7	Ms. S. Vinitha, Ms.Bhagyalakshmi S, Ms.Arun Kumar S, Ms.Kishore Kumar M	Mutual Funds Analysis Based Recommendation	ICRASEM-2023	Jan 2023
8	Mrs. Mercy H Mr.Fazeer Mohamed.S, Mr.Gautham.G.D, Mr.Gokul Selvan.S	Digital Signature Verification Using Artificial Neural Network	ICRASEM-2023	Jan 2023
9	Mrs. Mercy H, Mr.Sudharsan K, Mr.Nagaarvind N, Mr.Praveenraj S	Chatroom System with Wallet Connector	ICRASEM-2023	Jan 2023
10	Mrs. Devipriya S, Mr.Karthikeyan L, Mr.Maharaja S, Mr.Akhil P Aji	Voice Assistant for Visually Challenged	ICRASEM-2023	Jan 2023
11	Mrs. Devipriya S , Ms.Philomina S , Ms.Surya Priya R , Ms.Tharani Devi R	Fake And Real Job Prediction Using Machine Learning	ICRASEM-2023	Jan 2023
12	Dr. Vanitha R, Ms.Prince win D, Ms.Sanjay J, Ms.Sibi M	Design Of Diabetic Diet Plan Recommendation System	ICRASEM-2023	Jan 2023
13	Mr.V.K. Gnanavel; Ms.R. Sukanya; Ms.H. Mercy; Ms.P. Jayalakshmi; Mr.S. Veeramalai	GUI Base Prediction of Heart Stroke Stages by Finding the Accuracy Using Machine Learning Algorithm	ICDSSAI 2022- International Conference on Data Science, Agents & Artificial Intelligence	Feb 2023
14	Dr.D.Divya, Mr.T.R. GaneshBabu, Ms.K.Ananthajothi	Enhancement of Melanoma Skin Cancer Diagnosis by Modified Dragonfly-Based Neural Network	International Journal of Creative Research Thoughts (IJCRT)	Feb 2023
15	Dr.D.Divya, Ms.Logavarshini Mr.R,Balasubramnaiya, Ms.Anisha Singh	Diseases Classification of WBC Using Deep Learning	Journal of Data Acquisition and Processing	Apr 2023
16	Mr.E.Premkumar, Dr.T.Dhanalakshmi	Design of Multi-Crop Seeding Recommender System - A Real- Time Approach	International Conference on Innovation in Computing & Technology - ICICT'23	Apr 2023

17	Dr.R.Vanitha	Dengue Prone Area Prediction System Using Machine Learning	Journal of Data Acquisition and Processing	Apr 2023
18	Mr.K.Revanth Dr.R.Vanitha	Driver Fatigue Detection System Based on Facial Features and EEG Signals	ICICT'23-International Conference on Innovation in Computing & Technology	Apr 2023
19	Dr.Maya Eapen	Dengue Prone Area Prediction System Using Machine Learning	Journal of Data Acquisition and Processing. Vol. 38 & Issue No.1	Apr 2023
20	Mr.R. LakshMinarayanan Dr. Maya Eapen	Music Genre Classification With Deep Learning	International Conference on Innovation in Computing & Technology - ICICT'23	Apr 2023
21	Ms.B.Murugeswari, Ms.R.Vanitha, Dr.Maya Eapen, Ms.Divya D, Ms.Beulah Jayakumari R	Employment Recommendation System for Disabled People	Journal of Data Acquisition and Processing	May 2023
22	Dr.D.Divya, Ms.R.Vanitha, Ms.Prasanthi.T, Ms.Nithya.D, Ms.Shenbagavalli.B	MRI Based Brain Tumor Diagnosis Using Convolution Neural Network	European Chemical Bulletin	Jun 2023

5. Faculties as Resource Person in Conferences

Sl. No	Name of the Resource Person	Title	Name of the Institution	Date
1	Ms.H.Mercy	International conference on Technological Advancement in computer and Communication (ICTACC'23) in association with CSI- Kanchipuram	Aahiparasaskthi Engineering College	06.04.23
2	Ms.H.Mercy	"Outcome based education- Bloom's Taxonomy for effective Learning outcomes"	Thiruthangal Nadar College	09.02.23

6. Faculties as Chair Person in workshop

Sl. No	Name of the Resource Person	Title	Name of the Institution	Date
1	Dr.D.Divya	Recent Trends in Machine Learning and Big Data (Online)	Madanapalle Institute of Technology and Science	May 2023

7. Conferences Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	1. Dr. Maya Eapen 2. Dr. D. Divya 3. S. Devipriya 4. N. Javed 5. Prabha Gadakh 6. K.Sowmiya 7. B.Shenbagavalli 8. T.Prasanthi	SDG7 Affordable And Clean Energy	IGen Energathon 2023	21.05.23

8. Workshops Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	D.Mahalakshmi	Workshop on Cloud based Office Management for Employees (Paperless Office	Online	02.01.23
2	M.Vanitha Sheba S.Devipriya	One Day Workshop on Big Data Analytics using Pyspark & Tableau with Python	MSME Marcello Tech	30.04.23

9. Webinars Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	Ms.Pavithra Babu, Ms.Jetlin C P Ms.Sowmiya K	Webinar on Emerging Trends in Automotive Technology	KCG College (Online)	Jan 2023
2	Ms.D.Mahalakshmi	One Week International Webinar Series on Emerging Trends in Computer Science and Technology	Online	Feb 2023
3	Ms.M.Vanitha Sheba Ms.S.Devipriya	Webinar on Cloud Computing - Digital Transformation	Bharati vidyapeeth's institute of computer application and	

	Ms.H.Mercy Dr.D.Divya		management,(BVICAM) New Delhi (Online)	Feb 2023
4	Dr.R.Vanitha	Webinar on Tableau for DataScience	Scaler academy , Bengaluru, Karnataka (Online)	Mar 2023
5	Ms.D.Mahalakshmi	Webinar on Introduction to Data Visualization using R-studio	Virtual session	Mar 2023
6	Ms.D.Mahalakshmi	Webinar on Introduction to Quantum Computing	Virtual session	Mar 2023

10. FDPs Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	Ms.S. Vinitha, Ms.D. Mahalakshmi, Ms.M. VanithaSheba, Ms.S. Devipriya, Ms.H. Mercy, Dr.T.Dhanalakshmi, Dr. Maya Eapen, Dr.R.Vanitha, Mr.N. Javed	Five days FDP on NBASAR preparation under tier -1	Jerusalem College of Engineering	03.01.23- 07.01.23
2	Dr. MayaEapen, Dr. R Vanitha, Dr. Dhivya, Mrs, H.Mercy, Mrs. Prabha Gadakh, Mrs. S.Vintha, Ms.D. Mahalakshmi, Mrs. Devipriya, Ms. D. Nithya	Context Setting And Domain Specific VLAB Demonstration	PALS VLAB Domain Training	02.03.23
3	Mrs. Prabha Gadakh, Mrs. S.Vintha, Dr Maya Eapen	2 Days FDP on FINTECH	Imarticus Learning Private Limited	17.03.23- 18.03.23
4	Ms. Prabha Gadakh	5 days FDP on Education 5.0	Dr. MGR Educational Research Institute	15.05.23- 19.05.23
5	Dr. D. Divya, Dr.T.Dhanalakshmi, Mr.N. Javed, Ms.S. Vinitha , Ms.B.Shenbagavalli, Ms.T.Prasanthi,	Five days FDP on "Data Analytics and Artificial Intelligence in Healthcare"	Jerusalem College of Engineering	22.05.23- 26.05.23

	Ms.Prabha Gadakh, Ms.S. Devipriya, Ms.K.Sowmiya Ms.M.Aishwarya, Ms.S. Vinitha , Ms.D.Nithya			
6	Ms.C.Needhu	5 days FDP on Inculcating Universal Human Values	Technical Education, Organized By AICTE.	31.10.23- 4.11.23
7	Dr. Maya Eapen, Ms.S.Devipriya, Mr.N. Javed, Ms.M.VanithaSheba, Ms.H,Mercy , Ms.Jetlin C P, Ms.K Sowmiya, Dr.D.Divya, Ms.T.Prasanthi, Dr.T.Dhanalakshmi, Ms.D.Nithya, Ms.M.Aishwarya, Ms.B. Shenbagavalli, Ms.S. Vinitha	FDP on Exploring cutting - edge technology trends in software industry	Jerusalem College of Engineering	12.06.23- 16.06.23

11. Certificate Courses Completed by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1	Dr.T.Dhanalakshmi	Introduction to Soft Computing	NPTEL	2023

12. List of Prize Winners

Sl. No	Name of the Event	Name of the Student	Title
1.	Project EXPO'23	Rissi Harsan G.K Saravanan.S Vijyabharathi.R First Prize(1500)	Securra-Antivirus Software
2.	Project EXPO'23	Deepak S Harish Kumar K Heinrich Stephan R Second Prize(1000)	AR Location Navigator
3.	Project EXPO'23	Arun Kumar S Bhagya Lakshmi S Kishore Kumar M Third Prize(500)	Mutual Funds Analysis Based Recommendation

13.Internships and Certificate Courses Completed by Students

- 16 students participated in intensive training programs, focusing on enhancing their skills and professional development.
- 68 students have completed certified courses focusing on enhancement of their skills during the period Jan – Apr 2023.

14.Institutional Club and Other Activities

- Rotract Club Conducted an Event to felicitate an Outstanding President Award from distinct Rotract council 2022-2023 for Vasumthi K.K and overall Support from Sunera for Ashwin A.
- Tamil Mandram organized an cross word event, the winner is Tamilarasan.T.

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