

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 2022

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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



A Seminar was organized on Realtime Applications of Data Structure - Case Studies for II Year students on 17.10.22 Priya .N Coding Tutor White Hat & Byjus as Resource Person and organized by Mrs. S.Devipriya & Mrs.D.Mahalakshmi

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Organizes
Career Opportunities in Data Science

Resource Person
Mr.Thirumoorthy,MBA
10yrs Exp in Training Consultation
Career Guidance Speaker
Speakerhub

Date: 03 Sep 2022 Time: 11:00 am

Register: https://zoom.us/webinar/register/WN_B5gcyFqVtyOzlsTzIRLcuw

Mrs. Prabha Gadakh AP/CSE
Mrs. C.P.Jetlin AP/CSE
Coordinators

Dr.G.Sasikumar
Professor,HOD,CSE
Convener

Dr. Ramesh S
Principal

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A Seminar was organized on Career Opportunities in Data Science For II , III & IV year students of CSE department on 03.09.22 Mr. Thirumoorthy Career Guidance Speaker as Resource Person and organized by Mrs. Prabha Gadakh & Mrs.C.P. Jetlin

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Seminar on
A Career in GAME TECHNOLOGY

Dr.Srividhya Srinivasan
Founder/ Chairman
VASINEV GAMING SOLUTIONS PVT. LTD.

Date: 22 Aug 2022 **Time:** 10:30 am **Venue:** Auditorium,JCE **Participants:** II & III yr Students, CSE

Dr. G. Sasikumar
Professor,HOD,CSE

Dr. Ramesh S
Principal

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A Seminar was organized on A Career in Game Technology the for II and III year students on 22.08.22 Dr.Sri vidya Sri Nivasan Founder/ Chairman Vasinev Gaming Solution Pvt.Ltd as Resource Person and organized by Dr. G. Sasikumar.



A Seminar was organized on Career opportunities in Software development & Testing/ Networking for III Year students on 20.10.22 Mr.A.Seeni Mohammed Manager, Mosook Training Academy as Resource Person and organized by Mrs.K.Sowmiya.



A seminar on Cyber Security by Mr.Anand, Director , Consultant Li ve Wire for II, III,& IV students on 27.10.22 organized by Mrs. Prabha Gadakh



A seminar on Hadoop File System (HDFS) for II,III& IV students on 31.10.22 by Dr.L.Shyamal a, Associate Professor, VIT Chennai as Reosource person and organi by Dr.T.Dhanal akshmi & Ms.B.Pavi.



A Guest Lecture on Cloud Storage & Security in Cloud for IV Year students on 16.10.22 Mr.N.Thanikachalam Senior Technical Archi tect, TCS -Chennai as Resource Person and organized by Ms.H.Mercy & Mr.N.Javed.

2.Publications of Papers in Journal

Sl.No	Name of the Author	Title	Name of the Journal	Date
1.	Dr- Sasikumar Gurumoorthy, Mrs Hermalatha	Hybrid Pigeon Inspired Optimizer	Gray Wolf Optimization for Network Intrusion Detection in the Journal of Systems and Management Sciences	October 2022
2-	Mrs.Jetlin C P, Mrs.L Sherly Pushap Annabel	Brain Tumor MRI analysis using Deep Convolution Neural Network Optimization Framework	International Journal Of Intelligent Systems and Applications	September 2022

3. Faculties as Chair Persons in Seminar

Sl. No	Name of the Resource Person	Title	Name of the Institution	Date
1.	Mrs.C.P.Jetlin	Guest speaker on Artificial Intelligence	Velammal Institute of Technology	27.09.22

4.Conferences Attended by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1.	Mrs.H.Mercy	Plant Diseases Identification By CNN	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
2.	Mrs.H.Mercy	Intruder Detection And Alert System For Home Security Using Machine Learning"	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
3.	Mrs.H.Mercy	Smart Farming System Using IOT For Efficient Crop Growth	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
4-	Mrs.H.Mercy	Agricultural Product Price and Crop Cultivation Prediction Based on Data Science Technique	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
5	Dr T .Dhanalakshmi	Emotions Extraction From Covid-19 Tweets Using Natural Language Processing	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
6.	Dr. T. Dhanalakshmi	Fake News Detection Using Data Science Process	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22

7.	Mrs..P Jetlin	Speech Emotion Detection	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
8.	Dr. S. Sasikunnar Gururnoorthy	Text To Pictorial Representation Using Zero Shot-Learning	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
9.	Mrs.C P Jetlin	Online Bank Transaction Using Blockchain	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
10.	Ms .B .Pavithra	Chronic Kidney Disease Classification Using Machine Learning	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
11-	Mrs .S . Vinitha	Application For Intelligent Transportation and Emergency System	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
12.	Mrs.S. Vinitha	Air Pollution Prediction Using Machine Learning	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
13	Mrs.K.Sowmiya	IoT based Indoor Air Quality Monitoring system using NODEMCU	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
14	Mrs. M. Vanitha Sheba	Learning Application for children with special needs using Recognition algorithm	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
15	Mrs. M. Vanitha Sheba	Diagnosis Of Diabetic Retinopathy Using Convolutional Neural Networks	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22

16	Mrs. Prabha Gadakh	Cursor Movement Using Hand Gesture	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
17.	Mrs. S. Devipriya	E-Voting Website Using Blockchain Technology	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
18.	Mrs. S. Devipriya	Android Application For Emergency Ambulance Booking	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
19.	Mrs. S. Devipriya	Machine Learning and Deep Learning	SRM Institute of Science and Technology	11.10.22 to 15.10.22
20.	Mrs. S. Devipriya	Mathematical Foundation for Data Science	Jerusalem College of Engineering	31.10.22 to 04.11.22
21.	Mr. N. Javed	GATE-JAM study Circle Launch	(11T Madras) on Central Lecture Theatre, IIT MADRAS, CHENNAI.	12.08.22
22.	Mr. N. Javed	Drowsiness Detection System	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22
23.	Mr. N. Javed	Real And Fake News Classification using Data Science Process	AICTE sponsored Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022)	07.07.22

5.FDPs Attended by Faculties

No	Name of the Faculty	Title	Name of the Institution	Date
1.	Mrs. H. Mercy Mrs. Vantha Sheba	Machine Learning and Deep Learning	SRM Institute of Science and Technology	11.10.22 to 15.10.22
2.	Mrs.H.Mercy Mr.N.Javed Mrs.Vanitha Sheba Mrs.C.P.Jetlin Mrs.S.Vinitha	Mathematical Foundation for Data Science	Jerusalem College of Engineering	31.10.22 to 04.11.22
3.	Dr. T. Dhanalakshmi	First Hand Experience on SPSS Introductory Module	Research Foundation of India RFI-CARE	16.08. 22 to 22.08. 22
4.	Dr. T. Dhanalakshmi Mrs. Vantha Sheba	Natural Language Processing organized	NPTEL-AICTE	Jul-Oct 2022
5	Dr. T. Dhanalakshmi	Based Education(OBE) in Computer Science Discipline organized	Marian College	08.12.22 to 15.12. 22
6.	Mrs.C.P.Jetlin Mrs.B.Pavithra Mrs. S.Vinitha Mrs.K.Sowmiya Mr.R.Vinoth	Cloud Computing	PSN College of Engineering and Technology	18.07.22 to 22.07.22
7.	Mrs.C.P.Jetlin Mrs.B.Pavithra Mrs. S.Vinitha Mrs.Prabha Gadakh	Amazon Web Services organized	Sri Venkateswara Engineering College Suryapet in Collaboration with Brainovision Solution India PVT.LTD & ICTE	22.08.22 to 27.08.22
8.	Mrs.C.P.Jetlin	Recent Trends in Image Processing and its Application organized	Velammal Institute of Technology, Chennai	21.09.22 to 27.09.22
9.	Ms.B.Pavithra	Amazon Web Services	M.Kumarasamy College of Engineering, Karur, Tamilnadu	22.08.22 to 27.08.22

10.	Ms.B.Pavithra	How Teacher Can Make a Difference	Teaching Learning Center, 11T Madras	01.12.22 to 03.12.22
11.	Mrs. S.Vinitha	Insight of Machine Learning and Artificial Intelligence in Healthcare	Jerusalem College of Engineering	06.09.22 to 10.09.22
12.	Mrs. S.Vinitha	Data Science Tools	Easwari Engineering College	07.10.22 to 20.10.22
13.	Mrs.K.Sowmiya	Trending Technologies	EASI Institute of Information Technology	November 2022
14.	Mrs.M.Vanitha	12 days Naan Mudhalvan Training	InGage Technologies	19.09.22 to 30.09.22
15.	Mrs. Prabha Gadakh	Virtual Labs	Pals V labs Initiative with NITK Surathkal	19.10.22 to 21.10.22
16.	Mr.N.Javed	Introduction to Industry 4.0 and Industrial Internet	PTEL AICTE	Jul-Oct 2022
17.	Mrs.D.Mahalakshmi	Advance Technique in Computing Sciences and Applications	Saveetha College of Liberal Arts and Sciences, SIMAT	19.11.22 to 23.11.22
18.	Mrs.D.Mahalakshmi	Technical meeting on Design of Solar System for your Home: Beginners	EEE Madras Section, Professional Activities Committee	15.12.22
19.	Mrs.D.Mahalakshmi	Advance Research and Quality	Shri Krishnaswamy College for Women, Chennai	19.12.22 to 23.12.22

6.Workshops Attended by Faculties

Sl. No	Name of the Resource Person	Title	Name of the Institution	Date
1.	Mrs.D.Mahalakshmi	Cloud Based Office Management for Corporates Employees (Paperless office)	DR. M.G.R.Educational and Research Institue, Chennai	30.12.22

7.Certificate Courses Completed by Faculties

Sl. No	Name of the Faculty	Title	Name of the Institution	Date
1.	Ms.B.Pavithra	Enterprise Design Thinking conducted	IBM and certified as Practioner	2022
2.	Mrs. Prabha Gadakh	Enterprise Design Thinking	IBM	2022
3.	Mr.N.Javed	Cloud Computing	PTEL online course n by IIT, Kharagpur	Jul-Oct 2022
4.	Ms.M.Vanitha Sheba	Cloud Computing	PTEL online course n by IIT, Kharagpur	Jul-Oct 2022

8.Parent-Teacher Meet

Sl. No	Name of the Department	Date
1	CSE	18-10-22 and 19-10-22

9.Industrial Visit / Educational Tours

Sl. No	Name of the Organisation	Date	Year	No of students
1.	Kaashiv Infotech	16.08.22	2022	112
2.	RGMTTC - BSNL	29.04.22	2022	114
3.	Kaashiv Infotech	19.07.22	2022	89
4.	Kaashiv Infotech	18.08.22	18.08.22	94

10.Details of Internships by Student

Sl. No	Name of the Company	Date
1	Signeta Gloria F "Data Science" from Aican Automate in associated with Teachnook	1.08.22 to 30.09.22

2	Thirteen Students from Ill year A & B has undergone an internship in "Code bind Technologies"	6.10.20 to 20.10.20
3	Two Students from Ill year A & B has undergone an internship in "Green Systems"	7.11.22 to 22.11.22
4	Five Students from Ill year B has undergone an internship in "Uniq Technology"	01.11.22 to 15.11.22
5	One Students from Ill year B has undergone an internship in "Kaashiv Infotech"	24.12.22 to 7.12.22
6	Three Students from Ill year A & B has undergone an internship in "Pantech"	14.11.22 to 07.12.22
7	Three Students from Ill year B has undergone an internship in "Evolve robotics"	14.11.22 to 30.11.22
8	Three Students from Ill year B has undergone an internship in "IC AND SR ,IITM"	09.01.23 to 09.02.23

11.List of Rank Holders

Sl. No	Name of the Student	Year	Percentage
1.	Pavithra.G	IV	8.68
2.	Janani.N	IV	8.62
3.	Jayasree.R	IV	8.53
4.	Sandhiya.H	IV	8.32

12.Certificate courses completed by student

Sl. No	Name of the Student	Year
1	11 Students from Il year has successfully completed "Step Plus Test" online course at STEP	14.07.22
2	1 Students from Il year has successfully completed Online Course on "Business Analytics with Excel" at Skill Up on	16.12.22

3	1 Students from II year has successfully completed Master Class in "Data science Time Machine" at CCBP 4.0 Academy	25.12.22
4	1 Students from II year has successfully completed Master Class in "Data science Time Machine" at CCBP 4.0 Academy	25.12.22
5.	1 Students from II year has successfully completed Master Class in "Staying ahead of the curve" at CCBP 4.0 Academy on.	13.11.22

13.Paper Presentation

Sl. No	Name of the Student	TITLE	Year
I.	Ms.Thilothammal S	Brain Finger Technology	15.06.22
2.	Mr.Suresh Kumar Ms.Thilothammal S	Brain Finger Print Technology	15.06.22

14.List of Prize Winners in Model Making, Quiz, etc.

Sl. No	Name /Event	Year	Percentage
1	Thelophila Murphy S "Rashtriya Ekta Diwas" Quiz organized by Ministry of Education.	12.05.22	87%
2	Thelophila Murphy S "World Computer Literacy Day" organized by St. Joseph's College for Women.	12.06.22	85%
3	Signeta Gloria F, "World Entrepreneur's Day" organized by St. Joseph's College for Women.	01.09.22	84%
4	Signeta Gloria F of 11 CSE has participated and secured in E-Waste Management Quiz on the eve of "World Science Day" organized by St. Joseph's College for Women.	20.11.22	87%
5	Signeta Gloria F, Rashtriya Ekta Diwas Quiz organized by Ministry of Education	20.11.22	87%

EDITORIAL BOARD

STUDENT COORDINATORS

Ms.Devi Sravanti Gubbala,
MS.Bhagyalakshmi S,
Mr.Naga Arvind N,
Ms.Suchitra Ramaraj

STAFF COORDINATOR

Dr.D.Divya, Associate Professor ,CSE