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OMR, CHENNAI - 119



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

















TOP NEWS

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NEXTGEN NEWS
AUGUST 2024



St. JOSEPH'S

OMR, CHENNAI - 119







The National Level Symposium

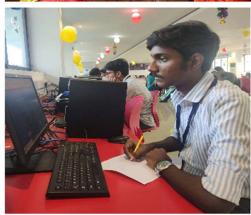
The National Level Symposium "Cybertrix'24" held by the Department of Computer Science and Engineering on August 31th, 2024, was a remarkable event, attracting 260 participants from 33 colleges. The symposium featured five major competitions: InnoQuest, Codeswap Showdown, Code Board, Riddle Me This, and Glitch Guardians. Participants showcased their skills and creativity, with the winners receiving a total prize money of ₹32,000, adding an exciting incentive to the competitive spirit of the event.















NGO Visit

The Department of Computer Science and Engineering (CSE), successfully organised an NGO visit for IV CSE-A and IV CSE-B students on 1st August 2024. The visit included trips to Love Foundation and Anjalammal Special School. This visit aimed to provide students with a deeper understanding of social service and the operations of non-governmental organizations dedicated to helping special needs individuals and marginalized communities.





NGO Visit

The Department of Computer Science and Engineering successfully organized an NGO visit for III CSE C and II CSE A students on 8th and 20th August 2024. The visit was to Anjalammal Special School, located in Bharat Nagar, Pudupatinam, Kalpakkam. II CSE B and C students visited Amma Appa Old Age Home located at No.4, MDL Flats, Mannivakkam on 21st and 22nd August 2024. These events, which took place from 8:30 AM to 2:30 PM, was part of the department's initiative to encourage social responsibility and provide students with an opportunity to interact with and support the special needs community. The students engaged in various activities with the children at the school, offering them companionship and assistance, thereby fostering a sense of empathy and community service among the participants.













Industrial Visit

The Department of Computer Science and Engineering organized an industrial visit to the NLC Power Plant in Neyveli, Tamil Nadu on 12th, 14th and 16th August 2024. The visit included students from the third-year Computer Science Engineering Sections A, B, and C. This educational trip provided the students with a valuable opportunity to observe and understand the functioning of a large-scale power plant, enhancing their practical knowledge and complementing their academic learning. The experience aimed to give students insight into the real-world applications of their studies, fostering a deeper understanding of industrial operations within the power sector.















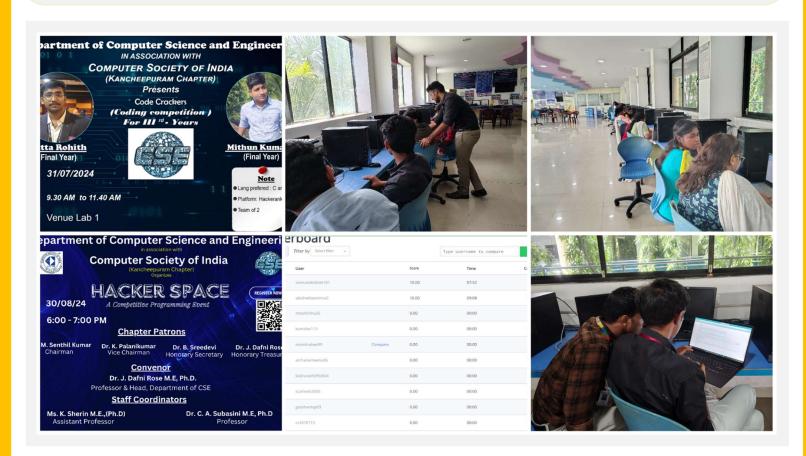
Industrial Visit

On 9th August 2024, the Department of Computer Science and Engineering organized an industrial visit to the National Institute of Ocean Technology (NIOT) in Chennai, Tamil Nadu. This visit provided students with an opportunity to explore cutting-edge research and technological advancements in ocean engineering and related fields. The students engaged with experts, gaining valuable insights into the practical applications of their academic knowledge, and observed various technologies used in ocean exploration and monitoring. The experience was instrumental in broadening their understanding of real-world industry practices and the significance of ocean technology in addressing global challenges.



Professional Chapter Activities

Department of Computer Science Engineering of St. Joseph's Institute of technology in association with Computer Society of India (Kancheepuram Chapter) had conducted a technical coding competition for all students. It was a Intra college competition that was held on 31th of July 2024.



Department of Computer Science and Engineering, in association with the Computer Society of India (Kancheepuram Chapter), organized "Hacker Space," an online competitive programming event, on August 30th 2024. The event, held from 6:00 to 7:00 PM, provided a platform for participants to showcase their coding skills in a challenging environment. The event was supported by key patrons, including Dr. M. Senthil Kumar, Dr. K. Palanikumar, Dr. B. Sreedevi, and Dr. J. Dafni Rose, who also served as the convenor. The event was successfully coordinated by Ms. K. Sherin and Dr. C. A. Subasini, ensuring a well-organized and engaging experience for all participants.

On August 15th, 2024, the Machine Learning Club organized an engaging guest lecture on the topic "RoadMap to AI Integrated Internet of Things". Dr. K.Selvakumar from NIT gave the guest lecture. The primary objective of the event was to provide club members with deep understanding of AI Integrated Internet of Things. The lecture began with an engaging introduction to the integration of Artificial Intelligence (AI) with the Internet of Things (IoT). The speaker highlighted the growing importance of AI in enhancing IoT systems, explaining how these technologies are converging to create smarter, more efficient solutions across various industries







ROADMAP TO AI WITH (IOT)

Dr. Selvakumar K

Assistant Professor

Department of Computer Applications

NIT Trichy









On August 17th, 2024, the Department of Computer Science and Engineering Joseph's Institute of Technology organized a GLUG (GNU/Linux Users Group) meet focused on Android Open Source Project Development. The event, held from 10:00 AM to 11:30 AM in AV Hall 1, was graced by Mr. Rajin Gangadharan, a Software Engineer at Zeb, as the guest speaker. Aimed at II-year students, the session provided an in-depth exploration of Android open-source projects, highlighting the significance of open-source contributions in the tech industry. Mr. Rajin shared his knowledge and experience, guiding students on how to get started with Android development and contributing to open-source projects. The meet was well-received by the students, who left with a better understanding of the practical applications of their academic learning in the open-source community.



The Department of Computer Science and Engineering at St. Joseph's Institute of Technology, OMR, organized a coding competition exclusively for second-year students in collaboration with the Women's Coding Club. The event took place on August 17th, 2024, from 1:00 PM to 3:00 PM in AV Hall 1. The benefits of such a program are to ensure opportunities for students' success by distinguishing tasks that are neither easy nor too difficult. Also, to help the students grow technically strong and thorough with the basic concepts in C and Python languages so that they will be bold enough to face technical interview rounds.



The Department of Computer Science and Engineering is organizing a distinguished guest talk for second-year students on "Innovative Ideas for Business Startup through Design Thinking." This event, hosted by the Entrepreneurship Development Club (EDC), will take place on August 19th, 2024, from 9:40 AM to 11:40 AM in AV Hall-1. The talk will be led by BALAJI ARUMUGAM, Founder and CEO of Bigsibucks Innovation Private Limited, based in Thoraipakkam, Chennai. This session aims to inspire and guide students in developing creative and practical approaches to launching successful startups through the principles of design thinking.



Entrepreneursing vevelopment club (Evc)

Organizes

Distinguished guest talk
For II years

on

Innovative Ideas for Business Startup through Design Thinking





Resource Person

Mr.Balaji Arumugam . Founder & CEO , Bigsibucks Innovation Private Limited. Thoraipakkam, Chennai-97

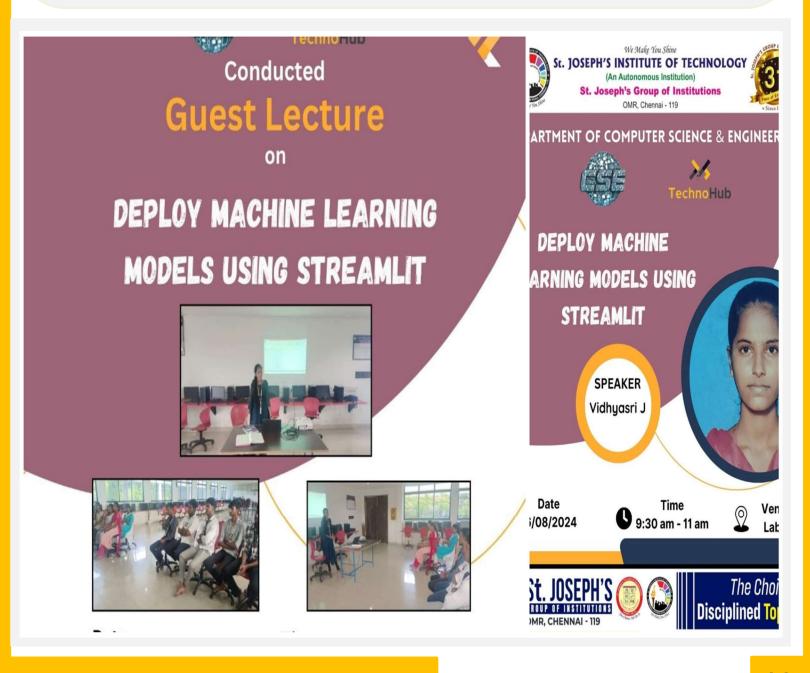








The Department of Computer Science and Engineering is organizing a session on "Deploy machine learning models using Streamlit. The event is scheduled for August 16th, 2024, from 9:30 am to 11:00 am, and will be held in Lab 4. The session will be conducted by Vidhyasri J., who will guide participants through the process of deploying machine learning models using the STREAMLIT " framework. The event is part of a series organized by the department, in collaboration with TechnoHub, aimed at enhancing students' practical knowledge and skills in the field of computer science and engineering.



IIC Event

Department of Computer Science and Engineering, St. Joseph's Institute of Technology organized a Seminar on "Invention, Innovation, and Intellectual Property Rights as Tools for Economic Development" on 13th August. S.MuthuKumar, Assistant Professor from CSE, SJIT was the resource person of this Seminar. The objective behind this seminar was to raise awareness about Invention, Innovation, and Intellectual Property Rights. S.MuthuKumar discussed the differences between invention and innovation. He showcased various prototypes and business ideas, and the ways to make them possible in reality. More than 100 students participated in this seminar.









DATE: 27/08/2024

(1) 11 AM to 2 PM

on 27th August Institute Innovation Council (IIC) of Department of CSE hosted the Technovation, a Project Expo, where school students showcased innovative prototypes addressing real-world challenges. Mr S. MuthuKumar, Assistant Professor from CSE, served as the resource person. The event featured over 10 projects from 10 student batches, impressing judges and attendees. HeadMaster P. Thiruganasambandam and Assistant HeadMaster G. Tamizhchelvan welcomed the participants. L. Mathiyalagan, PG Physics, thanked the organizers and highlighted plans for future innovation-focused events.

Alumni Talk

The Department of Computer Science & Engineering organized an engaging Alumni Talk on Full Stack Development on August 17th, 2024. The event featured Ms. Roshni M, a Software Engineer at HCL Technologies and an esteemed alumna from the Batch of 2017-2021. Held in AV Hall-1 from 8:30 to 9:30 AM, the talk was specifically aimed at II-year students, offering them a deep dive into the practical aspects of full stack development. Ms. Roshni shared her professional journey, industry experiences, and valuable insights, providing students with a clear understanding of the demands and opportunities in the field. The session was well-attended and highly appreciated by students, who gained a better perspective on how to align their academic learning with industry expectations.



Guest Lecture

We are excited to announce that the Department of Computer Science and Engineering successfully organized a guest lecture on "Spring, MVC, and Hibernate: Role in Application Development." by Mrs Premalatha, Product Engineer, Intellect Design Arena Chennai on 6th August 2024. This lecture provided valuable insights into these essential frameworks and their applications in developing robust and scalable enterprise applications.



The guest lecture on "Unlocking Potential - Generative AI Tools for Academic Success" was held on 13th August 2024 for III Year students. The event featured speakers Gopinath Chengalpattu, Global Practice Director, and Rajesh Prabhu, Senior Solutions Architect from HCL. The session took place in AV Hall 2 from 10:00 AM to 11:30 AM.

Guest Lecture

The Department of Computer Science and Engineering organized an insightful guest lecture on 7th August 2024. The topic of the lecture was "Handling Algorithms in Leetcode," aimed at enhancing the problem-solving skills of III Year students. The session was conducted by Joe Dhanith P R, an esteemed Assistant Professor from VIT Chennai. His expertise and practical insights provided students with valuable strategies and techniques for tackling algorithmic challenges on Leetcode, a popular platform for coding practice and competitive programming. This lecture was part of the department's ongoing efforts to prepare students for technical interviews and competitive programming contests.









Placement Activity

The Department of Computer Science and Engineering successfully organized a "Mock Interview by Alumni" event on August 10, 2024. The event, held from 8:00 AM to 3:00 PM in the Technology Placement Panel Rooms, provided III-year students with a valuable opportunity to experience real-world interview scenarios. Alumni from various esteemed companies conducted these mock interviews, offering students personalized feedback and guidance. The event was captured through several photos showing students engaged in focused discussions with the alumni, creating a professional and supportive environment to prepare them for their future job placements. This initiative underscores the department's commitment to equipping students with the skills and confidence needed to excel in their careers.



Student Employment Enhancement and Research Activities (SEERA)

As part of the SEERA Program, the Department of Computer Science and Engineering (CSE) organized a technical seminar on 7th, 14th, 28th July August for III Year Students, 5th August for III Year Students and 16th, 22nd August for II Year Students. The seminar focused on four key areas:

- Higher Package in Placement
- ABHS (Related to Higher Studies)
- Communication
- Placement
- 3 and above Arrear Coaching



Faculty Achievements – SCIE Journal Publication

 Dr. C. A Subasini published a paper titled "Enhancing Solar Still Distillation Efficiency Through Integrated Solar Chimneys and Submerged Condenser Systems", in the SCIE Journal "Thermal Science" on August 2024.

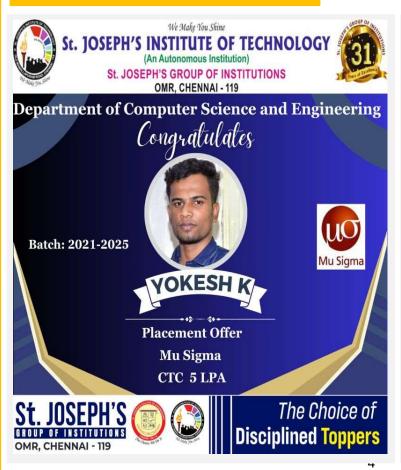
Faculty Achievements – Scopus Conference Publication

- 1. Dr. J. Dafni Rose published a paper titled "Advanced Novel NLP Approach for Emotion Detection in Poetry", in 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC) on August 2024.
- Dr. J. Dafni Rose published a paper titled "Demonstration of advanced file compression algorithm using ZPAQ", in 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC) on August 2024.
- 3. Dr. N. Mythili published a paper titled "Improving Solar Efficiency via CNN-LSTM and Cloud-Integrated IoT Prediction", in 2024 3rd International Conference on Sentiment Analysis and Deep Learning on August 2024.
- 4. Mrs. S. M. Keerthana published a paper titled "Weapon detection for security using the yolo algorithm with email alert notification", International conference in innovation and challenges in innovation technologies on August 2024.
- 5. Mrs. K. Jaspin published a paper titled "Satellite Images Classification by Using Artificial Intelligence Techniques", in 2024 International Conference on Innovations and Challenges in Emerging Technologies (ICICET) on August 2024.
- 6. Mrs. K. Jaspin published a paper titled "Automatic Detection of Driver Drowsiness and Distraction for Public Safety: Deep Learning Based Approach", in 2024 International Conference on Knowledge Engineering and Communication Systems (ICKECS) on August 2024.
- 7. Mrs. A. VANI Lavanya published a paper titled "Envirosense IOT: Smart Air Pollution Monitoring System", in 2024 International Conference on Innovations and Challenges in Emerging Technologies (ICICET) on August 2024.
- 8. Dr. V. Sabaresan published a paper titled "Decentralized Cab Booking Application Utilizing Blockchain, Smart Contracts and Oracle Networks", in 2024 International Conference on Knowledge Engineering and Communication Systems (ICKECS) on August 2024.
- 9. Dr. V. Sabaresan published a paper titled "Video Frame Interpolation Using Real-Time Intermediate Flow Estimation", in 2024 International Conference on Knowledge Engineering and Communication Systems (ICKECS) on August 2024.

Faculty Achievements – Patent Publication

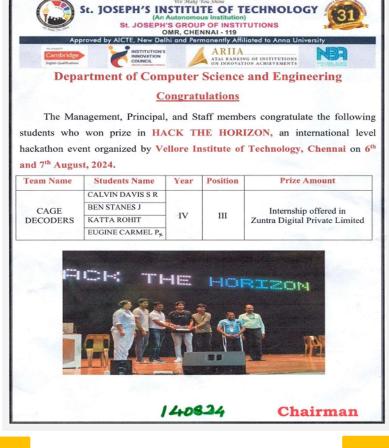
- 1. Mrs S M Keerthana has published a patent titled "AGRICULTURAL INNOVATION: IOT AND MACHINE LEARNING FOR CROP HEALTH MONITORING AND MANAGEMENT SYSTEM" with application number 202441057549 on 2nd August 2024.
- 2. Dr.D.Menaga has published a patent titled "NEUROROBOTS: THE CUTTING EDGE OF REPAIRING NEUROLOGICAL DAMAGE" with application number 202421053553 on 2nd August 2024.
- 3. Mrs R.Vasanthi has published a patent titled "INTEGRATING MACHINE LEARNING FOR REVENUE ENHANCEMENT AND FRAUD PREVENTION IN E-COMMERCE" with application number 202441057151 on 2nd August 2024.
- 4. Dr.V.Sabaresan has published a patent titled "INTELLIGENT AI BASED SOLID WASTE RECYCLE AND REUSEMONITORING DEVICE" with application number 202441055549 on 2nd August 2024.
- 5. Mrs Sherin K has published a patent titled "ADVANCING BREAST CANCER DETECTION WITH MACHINE LEARNING AND MASS IMAGING" with application number 202441059668 on 9th August 2024.
- 6. Dr.D.Menaga has published a patent titled "IOT-ENHANCED MACHINE LEARNING FOR TRAFFIC MANAGEMENT SYSTEMS IN SMART CITIES" with application number 202411057182 on 9th August 2024.
- 7. Mrs. K.Jaspin has published a patent titled "NEXT-GEN AGRICULTURE: IOT, CLOUD COMPUTING, AND AI FOR DETECTING PLANT DISEASES" with application number 202441058780 on 9th August 2024.
- 8. S.MuthuKumar has published a patent titled "AI-VISION BASED INVESTMENT ANALYTICAL FINANCIAL APPLICATION IN IOT AND SOCIAL DISTANCE MONITORING DEVICE" with application number 202421055125 on 9th August 2024.
- 9. Dr. N. Mythili has published a patent titled "AI-DRIVEN EXPLORATION OF BISMUTH-BASED DOUBLE PEROVSKITES FOR ENHANCED SOLAR CELL PERFORMANCE" with application number 202421055890 on 16th August 2024.
- 10. Dr. N. Mythili has published a patent titled "Bioreactor for Water Purification and Bioenergy Production from Medical Waste" with application number 202441060995 on 16th August 2024.
- 11. Dr. Adlin Sheeba has published a patent titled "COMBINED PWM AND PHASE SHIFT CONTROL METHOD FOR BIDIRECTIONAL FOUR SWITCH BUCK-BOOST (FSBB) CONVERTER WITH SMOOTH POWER TRANSFER REVERSAL" with application number 202441060537 on 16th August 2024.
- 12. Mrs. A. VANI LAVANYA has published a patent titled "AI-POWERED ALGORITHMIC TRADING FOR UNLOCKING NEXT-GENERATION MARKET ANALYSIS" with application number 202441060596 on 23rd August 2024.

Student Achievements









Student Achievements

III-year CSE students online certificate course completed details.

- Introduction to MonoDB (ICT academy) 180 Students
- Deep Learning for Development (Infosys Springboard) 120 Students
- C for everyone (Coursera) 28 Students
- Introduction to Git and GitHub (Coursera) 84 Students
- Data analytics using R Program (Coursera) 30 Students



















IV-year CSE students prepinsta online certificate course completed details.

- Verbal & Logical Reasoning 148 Students
- Quantitative 177 Students
- Basic coding 175 Students
- Intermediate coding 174 Students
- Git /GitHUB -145 Students
- MongoDB 150 Students