We Make You Shine

St. JOSEPH'S INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, Chennai - 119

30 Years of Excellence

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER - NEXTGEN NEWS ODD SEM (2023-2024)

VOL 9 - VERSION 2

VISION

❖ To develop a competent professional, a leader and an innovator in the field of ever-changing technologies by inculcating knowledge with ethical standards thereby contributing to the global society.

MISSION

❖ Aspire for academic excellence by imparting knowledge of Computer Science and Engineering.

❖ Provide a learning environment that helps students to be lifelong learners and pioneers.

❖ Motivate and facilitate to learn, unlearn and relearn and to bring out the best from each and every individual.

❖ Inculcate moral values and empower the students to attain administrative and leadership skills for the betterment of the society.

❖ Promote quality research and development in emerging trends to meet the industrial requirements.

ACHIEVEMENTS
DEPARTMENT TOPPERS

II – Year (2022 - 2026 Batch)
(UPTO II SEMESTER)

NAME OF THE STUDENT	CGPA
Shajitha S	9.71
Jashwanth J	9.42
Janani B	9.4
Nandika M	9.33
Theivaanai S	9.25
Rithika S	9.19
Yugarakshini Gs	9.17
Rubini J S	9.15
Sandhiya A	9.13
Sherin Mithushiya P	9.1
Vibin Sri R	9.1
Abinaya M	9.08
Gokul Ram J	9.08
Keerthana V	9.04
Pragadeeshwari D	9.04
Jaffron Shalom Kennedy R	9.02
Kaviya D	9

III – Year (2021 - 2025 Batch)
(UPTO V SEMESTER)

NAME OF THE STUDENT	CGPA
Anu Varshini S K	9.6
Priyanka S	9.45
Sudharsana Gayathri U S	9.26
Vinotha S	9.16
Hemalatha J	9.11
Yogeshwaran	9.09
Vidhya P	9.05
Adline P	9.02
Muthukumaran S	9.01

V – Year (2020 - 2024 Batch)
(UPTO VII SEMESTER)

NAME OF THE STUDENT	CGPA
Ashna Sherlin S	9.24
Lokesh Kumar V	9.20
Suhaasini S	9.19
Santhosh Karthick M	9.17
Cavinkumaran M	9.15
Shobana G	9.14
Abdul Athif A	9.12
Harini S	9.12
Kevin Timothy J	9.09
Parvathi B	9.08
Jaya Prabha S	9.08

PROFESSIONAL CHAPTER ACTIVITIES

In partnership with the IEEE Computational Intelligence Society and **IEEE Computer Society, hosted a Poster Making Competition on September 8, 2023**. During the event, students showcased a variety of concepts from their specific academic areas through their poster presentations.

A lecture was **conducted on June 13, 2023, focused on "Compiler Design and Its Real-World Applications."** It was led by Mr. Sundarababu Maddu, an IEEE member and Assistant Professor. This session provided practical insights into compiler design and concluded with an engaging student quiz.

On 24th June 2023, titled "Becoming a React Native Developer in 2023," featured Mr.Mahesh Nandam, a Software Development Engineer at Mobile Premier League in Bengaluru. He discussed the significance of React Native and its integration with AI in the cloud, and the session included an interactive Q&A.
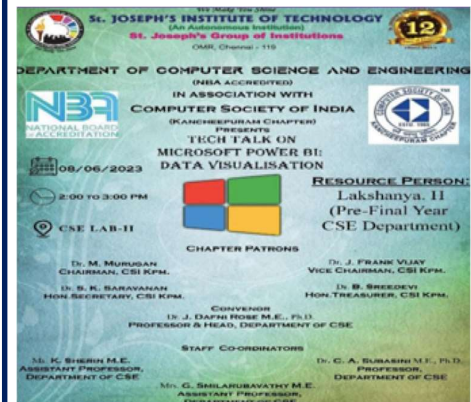

The Department of Computer Science Engineering hosted an event named **"INGENIUM - Paper Presentation"** with the aim of promoting engineering excellence among IEI Student Members. This Paper Presentation event took place **on August 17, 2023.** It was organized by IEI staff coordinators, including Dr. D. Menaga, Ms.A. Angeline Valentina Sweety, and Mr. S.Janagiraman.
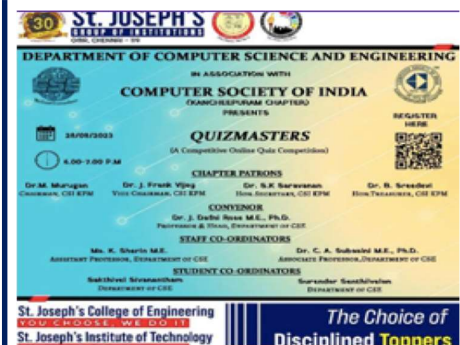
PROFESSIONAL CHAPTER ACTIVITIES

The workshop titled on **"Tech-Talk- Microsoft PowerBI: Data", conducted on June 9, 2023**, featured Ms. Lakshanya H, a III-year student from the CSE Department, as the resource person. It introduced an explorative and data-driven approach to data analysis, which differs from the traditional hypothesis-driven statistical analysis.

On July 6, 2023, a workshop "Technical Competition-Quiz Masters" took place, featuring Mr. C. Balamanikandan, a Consultant at Thryve Digital Health LLP, as the resource person. This workshop encompassed a comprehensive exploration of various subjects, including data science, cloud computing and cyber security.

The Guest Lecture - **Test Data Management held On August 28, 2023** hosted by CSE in association with CSI. Its primary objective was to assess participants technical knowledge, problem-solving prowess, and critical thinking abilities within the technical field of test data management.

The Department of Computer Science and Engineering at St. Joseph's Institute of Technology organized a **Tech Tussel event in collaboration with the Institution of Engineers (IEI) on 09-06-2023**. The event of IEI, was facilitated by staff and student coordinators. The event emphasized knowledge expansion and the demonstration of coding skills.

CLUB ACTIVITIES

On July 4, 2023, a GLUG session titled" Introduction to Free Software" was conducted with Mr. K. Sibi, an Associate Project Manager and Executive Committee Member of FSFTN, as the speaker. The focus was on free and open-source software (FOSS).

On August 16, 2023, a GLUG session covered" React JS for Beginners: Building a Quote Generator Website." Handled by Mr. Mohammed AfzalKA and Kayalvizhi. This Session included Node JS, React, fundamentals.

On September 12, 2023, a GLUG session on" Deploying Projects Using GitHub" took place. Mr. Muthukumaran S and Lemi Deborah S, both third-year students, were the resource persons. The session covered GitHub account creation, project deployment, and essential GitHub commands.

On September 7, 2023, the Machine Learning Club organized an event titled "Introduction to Machine Learning in Today's Industry" Mr.Mac Mohan Puthran, a Techno Leader in Data Science & Engineering (AI/ML), served as there source person. The seminar covered challenges in machine learning and highlighting the crucial role of data in improving machine learning models.

CLUB ACTIVITIES

The seminar **held on June 21, 2023**, had the objective of providing students with exposure and understanding of the topic **"Vision of Entrepreneur".** The overarching of the program was to inspire students to generate successful business ideas and aspire to become accomplished entrepreneurs.

On August 11, 2023, **an ideathon event was conducted** for teams selected based on their innovative ideas. These teams presented their ideas before two judges. This was followed by a Q&A session where judges provided valuable suggestions for improvement

The Techno Hub aims to foster new talent and innovative thinking while promoting technology-based activities. This **talk on 06/06/23** sought to provide students with exposure and understanding of "Cascading Style Sheets".

On September 14, 2023, the Techno Club organized coding competitions, serving as a valuable platform for programmers to demonstrate their skills and enhance their coding proficiency. These contests create a challenging arena where participants can tackle intricate problems with in specified time constraints.

The seminar **conducted on 08/08/23, titled "How To Write An Effective research Paper"** aims to enhance students' research paper writing skills by providing exposure and guidance. Research objectives play a crucial role in defining the goals and rationale of your research project, helping to clarify its purpose and direction.

MEMORANDUM OF UNDERSTANDING

VEI Technologies and St. Joseph's Institute of Technology entered into a Memorandum of Understanding **(MoU) on June 6, 2023.** The agreement has no specified end date and is designed to continually benefit students. As part of this collaboration, VEI Technologies organized a guest lecture on "Fundamentals of Java" for second-year Computer Science and Engineering (CSE) students on September 15, 2023.

Zero2Infynite and St. Joseph's Institute ofTechnology formalized a Memorandum of Understanding **(MoU) on June 7, 2023,** with a duration of 3 years. The primary aim of this agreement is to consistently provide students with workshops and guest lectures for their ongoing benefit.
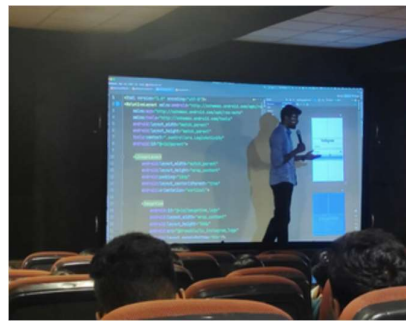

Syasan's career Analytics Technology Solutions Pvt.Ltd and St. Joseph's Institute of Technology formalized aMemorandum of Understanding **(MoU) on September 25th, 2023,** with lifetime duration. This agreement is toconduct workshops with hands on, guest lectures, value added courses, Mock interviews and training seminar for beneficiary of the students.

GUEST LECTURE

Mr Lourdes Dinesh delivered a guest lecture **"Building Scalable Architectures for Enterprise Applications In Java" on June 22nd 2023** about the concept of incorporating software design in java while designing web applications. He taught the students as to how the principles of software design build by JAVA.

Mr.E.Manikandan delivered a guest lecture **"Amazon Web Services And JS Framework" on 24nd June 2023**. In this guest lecture, the students were educated on the advanced features and concepts of database systems by making them understand the need and how connected to web applications.

In the Guest lecture **"Networks- The Driving factor for IR" - The Driving factor for IR on 24th July 2023** web-based platforms in cloud environment are discussed. He explained the concept by clearly executing the coding in web applications and practically demonstrated the concepts.

During this guest lecture **"Advanced Database Systems" on 21st July 2023,** students received an over view of mastering the fundamental concepts of Spring Core and their application in the development of DevOps features.

The purpose of guest lecture **"Fundamentals of Data Science" on 12th September 2023** for II Year students was to familiarize them with the emerging trends in Data Science, emphasizing their significance in securing product-based roles within the IT industry.

The guest lecture **"Core JAVA" on 15th September 2023** was conducted for II Year students on the fundamental concepts of core Java. They were taught on all the preliminary features of Java language and also the programs were coded and demonstrated practically.

INDUSTRIAL VISIT

On September 16, 2023, second-year students had the opportunity to visit **REETECH Solutions Pvt Ltd** in Tambaram, where they gained valuable insights into emerging technologies. They mainly focus on product development and create awareness on emerging technologies

In **July 2023, third-year students visited the TVS Motors company in Hosur** on both the 20th & 25th of the month. During these visits, the students had the chance to explore the car and bike manufacturing industry, as well as gain awareness of the latest trends in advanced technology.

In **July 2023, on the 19th, third-years tudents** had the opportunity to **visit Lenovo Pvt Ltd in Pondicherry**. During their visit, the students gained valuable insights into the processes of designing, manufacturing, and evolving market requirements and advancements in the fieldof software.

In **June 2023, on the 19th, 20th, and 21st, third-year students visited Modern Bakers in Madhavaram**. During these visits, the students gained knowledge about the automation systems employed in the manufacturing of cookies alongwith hygiene awareness.

OTHER ACTIVITIES

NATIONAL LEVEL SYMPOSIUM CONOSCENZA 23

Department of Computer Science and Engineering has conducted a National Level Students Symposium **(CYBERTRIX 23') on 2nd September 2023**. We have received a total of 1407 registrations from various colleges for 5 different events such as Tech Pitch, Code Swap Showdown, Code Board, Riddle Me This and The Bug Hunter Squad that were organized in our departments. Three prizes were awarded for each event. A total cash prize of Rs.31,000/- was distributed to the winners of the events (16 teams).

INTERNATIONAL CONFERENCE

Department of Computer Science and Engineering has conducted 3rd International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES - 2023) **0n 14 & 15 December, 2023**. We have received a total of 1000 + research papers from various college, 23 track of streams and 46 session chair persons from reputed institution all over India collaborated in this event.

INVITED TALK - 1
Topic: "Sensing Systems constrains in Medical Applications"
Dr. Aime' Lay-Ekuakille, M.S., M.D., Ph.D.
Professor,
Department of Innovation Engineering
University of Salento, Lecce, Italy

INVITED TALK - 2
Topic: "Nanotechnology: Smart System Integration and Applications"
Dr. A.Robert Sam, M.Sc., M.Tech., Ph.D.
Scientist In-charge & Senior Principal Scientist
Central Scientific Instruments Organisation (CSIO)
CSIR, Madras Complex, Chennai

INVITED TALK - 3
Topic: IT Professionals : Business Intelligence, Analytics, Data Science, AI / ML
Dr. Richard Min, M.S., M.D., MBA., Ph.D.
Professor, Department of Science
University of Texas, Dallas, USA

INVITED TALK - 4
Topic: Smart IoT Sensing for Aging Well : Research Activities and Future Directions
Dr. Michael Sheng, M.S., Ph.D.
Distinguished Professor, Head of School
School of Computing
Macquarie University, Sydney, Australia

INVITED TALK - 5
Topic:
Fuel Cells for Electric Vehicle Technology
Dr. Kalpana, M.Tech., Ph.D.
Senior Principal Scientist
Central Electrochemical Research Institute (CERI)
CSIR, Madras Complex, Chennai

INVITED TALK - 6
Topic:
Future of Artificial Intelligence (AI)
Dr. Jay Veerasamy, M.S., Ph.D.
Director, Center for Computer Science Education & Outreach
Professor in Instruction, Department of Computer Science
The University of Texas, Dallas, USA

FACULTY ACHIEVEMENT

FACULTY INTERNALTIONAL JOURNAL PUBLICATIONS

1. **Dr. Adlin Sheeba**, "Secure smart city application using webservice model and mayfly optimization-based lightweight CNN", Transactions on Emerging Telecommunications Technologies, Volume 35, Issue 1, 30 November 2023.

2. **Dr.D.Menaga,** "Optimal trained long short-term memory for opinion mining: a hybrid semantic knowledgebase approach",International Journal of Intelligent Robotics and Applications, Volume 7, pages 119–133, (2023).

3. **Dr.D.Menaga,** "A Detection of Intrusions Based on Deep Learning", Cybernetics and Systems,(2023).

4. **Dr. L. SaiRamesh,** "Fuzzy C-Means Segmentation and Hybrid DarkNet-SVM Model for Tumor Detection in Homo Sapiens Through CT Images",Journal of Electrical Engineering and Technology, Volume 19, Issue 1, 28 December, 2023.

1. **Dr. J. Dafni Rose**, "IoT Enabled Sensory Monitoring System for Fog Optimal Resource Provisioning Method in Health Monitoring System", IJRITCC, Volume: 7s, Issue No: 11.

2. **Dr. A. Deepak Kumar,"**Analytic approach of predicting employee attrition using data science techniques", JATIT, Volume : 101, Issue No 9.

3. **Mr. S. Muthukumar,"** Enhanced deep learning based on invasive anamoly detection of ECG signals with emphasis on Diabetes", IJISAE, Volume 11, Issue No: 6s.

4. **Ms.U.Surya,**"Proficient Bayesian Classifier for Predicting Congestion and Active Node Sensing Classification in Wireless Cognitive Radio", IJEER, Volume 11, Issue 4.

5. **Mr. A. Bala Murali,"**Protectors of the Android Domain: Research into Mobile Malware Detection and Defense", IJISAE, Volume 12, Issue 1.

SCIE / WOS Indexed Journals - 4	**Scopus Indexed Journals - 5**

PATENT PUBLICATIONS	**INTERNATIONAL CONFERENCE**
Indian Patent Published - 21	**IEEE International Conference - 21**

FDP/ WORKSHOP ATTENDED

No of FDP/ Workshop Attended - 77	**No of days FDP/ Workshop Attended - 602**

NPTEL CERTIFICATES - 6

STUDENT ACHIEVEMENT

Aditya M and Gunapriya M got a 3rd prize, in HACK-A-BOT Organized by UI path Community held on 4th May 2023.

Muthu Aravind R, Nithish L M, and team got Cash prizes of 10.000, in BotCity Hackathon Organized by Intelligent Automation held on 9-12-2023.

Eugine, calvin, katta rohith, adline and ben stanes got Best price, in HACKTOPIA Organized by Gurnanak institution held on 25-26 Augest 2023.

Adams, akshaa, joel, legin, and khalushankar got 2nd price, in Hackathon Organized by BMSCE ACM institution held on 13- 20th Augest 2023.

Sethulakshmanan SP, yokeshwaran, Sanjith Kumar M, vasithra D, vinotha S, for being finalist in SIH 2023, held on 19-20 December.

Sethulakshmanan, Sanjith, Vinesh, Yogesh, Vigram, for being finalist in IEEE yeast YESESIT12, held on 5th Augest 24.