

(An Autonomous Institution)

St. JOSEPH'S GROUP OF INSTITUTIONS OMR. CHENNAI - 119





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### **ABOUT THE COLLEGE**

- O St. Joseph's College of Engineering is having 30 years of successful academic reputation offering 11 UG programs and 3 PG programs with a current intake of more than 1750 students per year.
- O Since inception, our Institution is consistently placed among the Top 10 institutions in terms of number of ranks. So far 1553 ranks including 57 Gold medals and 56 Silver medals have been secured by students. The college has been in 1st Place for 4 times in terms of fetching highest numbers of Anna University ranks.
- The College is continuously being ranked by in National Institutional Ranking Framework (NIRF) since 2017 and ranked in '101 150 band' at National Institutional Ranking Framework under Innovation category (NIRF- Innovation 2023).
- O Accredited with A+ grade by securing 3.46 on a scale of 4.00 by National Assessment and Accreditation Council (NAAC).
- O 10 departments have been recognized as 'Research Centers' by Anna University to pursue Ph.D. and also recognized as 'Scientific and Industrial Research Organization' (SIRO) since 2014 by DSIR, Government of India.
- Our institution has received 2nd Rank in Performers band of NSIIR 2023 (National Sustainability Impact Institutions Ranking) organized by NITI AAYOG & ATAL Innovation Mission for our initiatives in support United Nation's Sustainable Development Goals.
- Our research publications have resulted in fetching Scopus h-index 67 and Web of Science h-index 59 for our institution.
- Our institution is the recognized 'Linguaskill Centre' for Cambridge English Assessment in India & one among 25 South Asia Best Preparatory Centers for Business English Certification (BEC).
- O So far 57 Sponsored Research Projects to the value of Rs. 5.04 Crores and 48 Faculty Training Programs with a grant of Rs.71.51 lakhs and FIST grant of Rs.71 Lakhs were received from AICTE, NRB, DST, SERB, DBT, NRDMS, ISRO, TNSCST & Anna University etc.
- O INAE Innovative Project Awards (21 Projects) were bagged by our students for their innovative projects.



### **ABOUT THE COLLEGE**

- Our Institution is selected under the National level "Unnat Bharath Abyan Programme" by MHRD Government of India and Skill and Personality Development program Centre (SPDP) for SC/ST by AICTE, and received a grant of Rs.17 lakhs grant under PMKVY program.
- O Won First AICTE-ECI Chhatra Vishwakarma award in 2017 as a Best Institute at National level.
- O Won 1st position in "Utkrisht Sansthan Vishwakarma Award", 2020 by AICTE in association with Ministry of Human Resource and Development (MHRD).
- Secured AICTE-Lilavati Awards in 2021 and 2022: Winner under the stream of Women Security, Runner under Hygiene and Sanitation themes in 2021 and Runner in Women Empowerment 2022.
- College has secured 4star rating for the activities carried out in the campus by Institution's Innovation Council (IIC). In 2023 the college has received 4 project grants worth of Rs.56

  Lakhs for Business incubation by MSME, MOE, & Government of India
- O Consistently our students are securing winning positions in National Level Innovative idea competitions such as AICTE Smart India Hackathon in Hardware and software, Toycathon, Mapathon etc.
- O We have Secured 58th Rank by Internshala Annual Ranking 2023 and our Institution is consistently awarded "National Employability Award" every year since 2017 by Aspiring Minds.
- Our college is recognized as India's Best Engineering Institute 2023 with AAAA rating by Careers 360 organization.
- Our Institution is listed in India Book of Records for hosting National Level FDP on Cloud Infrastructure organized by BRAIN O VISION, and supported by AICTE, Ministry of Education, Govt. of India.



# Diwali Celebrations

# Diwali Celebrations





# Diwali Celebrations







knowledge and skills in the field of artificial intelligence.







Mrs. G. Lathaselvi and Dr. Sumathi from the Information Technology department took part in the NVIDIA AI Summit held at Jio Convention Centre, Mumbai on October 24-25, 2024. The summit featured comprehensive sessions on innovative topics such as Generative AI, Robotics, Language Models, and supercomputing, allowing insights gain into the them latest Additionally, they engaged advancements. meaningful discussions with distinguished alumni.





Our Final Year ECE students secured First Place in the Ideathon Contest organized by Nokia Bangalore University Collaboration (NBUC). Our Students have demonstrated their project titled "Bird's AI: Drone-based Search and Rescue Operations in Disaster Management" to the jury members by integrating our solution with Nokia's commercial grade 5G Test Bed.

### **VALUE-ADDED COURSE**



The value-added course for the 2nd-year MBA students HAD HAPPENED which includes advanced stock market classes for Finance students, Digital Marketing for Marketing students, and CII staff-led sessions for Operations students. Let me know if you need further details or assistance! and MBA 1st year students had the value added course on Communication skill.

windergy



# INDUSTRY INSTITUTE INTERACTION —

Dr. Jayaram Pradeep, Head and Professor, Mr. R. Elanthirayan, Mr.A.Sadeeshkumar, Assistant Professors along with 12 students from Department of EEE were invited for 6th INTERNATIONAL TRADE FAIR & CONFERENCE 23-25 October 2024, Chennai Trade Centre, Chennai, India by 'windergy'. During the visit new technologies were showcased in the field of wind energy and how renewable energy will power the future. Many eminent experts have shared their ideas and views for future wind energy extraction.

### STUDENT CHAPTER ACTIVITIES



Department of Electronics and Instrumentation Engineering in association with ISA Student Chapter conducted "INNOVATEX 24" - A Project Expo on 26-October-2024. The Inter-College Project Expo is a showcase of creativity, innovation, and collaboration where students from different colleges present their best projects across various fields. Cash Prize Pool: ₹. 6,000



### PLACEMENT TRAINING

A six-day placement training program was conducted in ECE Department from 21st to 26th October 2024 by Retech Techno Solutions and Learning Saga LLP for 121 second-year ECE students with a CGPA of 7.5 and above. The program aimed to enhance students' technical skills in hardware and software domains. Hardware training focused on PCB design and IoT fundamentals, while software training covered C programming and data structures. This comprehensive training equipped students with practical skills, problem-solving abilities, and industry-relevant knowledge, preparing them for academic and professional challenges.

Excelsior -



### MACHINELEARNING WITHPYTHON

Last month, our department successfully conducted a Machine Learning with Python training program specifically designed for our second-year students in the Department of Artificial Intelligence and Machine Learning. This program aimed to provide students with a solid foundation in machine learning concepts and practical applications using Python, one of the most widely used programming languages in the field. Over the course of the training, students engaged in hands-on projects and interactive sessions that allowed them to explore key topics such as supervised and unsupervised learning, data preprocessing, and model evaluation. The training not only enhanced their technical skills but also fostered a collaborative learning environment where students could share insights and work together on innovative solutions. We are proud of our second-year students for their enthusiasm and commitment to advancing their knowledge in this exciting area of study. We look forward to seeing how they apply their newfound skills in their future projects and academic pursuits.

- Dr. M. Arun, Assistant Professor from the Department of Mechanical Engineering has Successfully Published a Patent titled "Enhancing Polymer Composites with Recycled Jute Fibers from Carpet Waste: Transforming Jute Fibers into High Performance Natural Fiber Composites" on 18/10/2024. Application No: 202441075589
- Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering has presented paper entitled "A Fusion of SVR and Fully Connected Networks for Improved RUL Prediction of Lithium Ion Batteries in 2024, 2nd Global Conference on Information Technologies and Communications (GCITC) during 25th and 26th of October 2024.
- Mr. S. Manikanda Prabhu, Assistant Professor has published a article titled, "Distance based topological characterization, graph energy prediction, and NMR patterns of benzene ring embedded in P-type surface in 2D network" Sci Rep 14, 23766 (2024). https://doi.org/10.1038/s41598-024-75193-8
- Mr.G.D.Vignesh has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Mrs.M.Angelin Ponrani has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Dr.M.Suresh has successfully participated & completed AICTE Training And Learning (ATAL)

  Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Dr.D.Sumithra Sofia has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.

- Dr.A.Simon Prabhu has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Dr. D. Sumithra Sofia has attended Faculty Development Programme on "Future Ready Antenna Design-cutting Edge solution for 5G-mm wave and Beyond"at VIT, chennail School of Electronics Engineering from 14.10.2024 -18.10.2024
- Dr. B Victoria Jancee, has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Dr.S.Aghalya has successfully participated & completed AICTE Training And Learning (ATAL)

  Academy Faculty Development Program on Unlocking the Potential of AI: Journey from 
  Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat 
  Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Dr.P.Ezhilarasi has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Dr.S.Vinayagapriya has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Mrs.R. Madhumitha has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.

- Mrs.S.Devipriya has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape at ST. JOSEPH'S COLLEGE OF ENGINEERING from 14/10/2024 to 26/10/2024.
- Dr. D. Sumithra Sofia has attended Faculty Development Programme on "Future Ready Antenna Design-cutting Edge solution for 5G-mm wave and Beyond"at VIT, chennail School of Electronics Engineering from 14.10.2024 -18.10.2024
- Dr.N.Chidambararaj, Associate Professor, Department of Electrical and Electronics Engineering has published Patent on the title "Machine Learning-Based Prediction Of Educational Outcomes Through Teacher Effectiveness Towards Societal Growth".
- Dr.A.Jamna, Assistant Professor, Department of Electrical and Electronics Engineering has published Patent on the title" Unravelling the mysteries of plant biodiversity and adaptation using advanced techniques in plant".
- Mr.S.Nishant, Assistant Professor, Department of Electrical and Electronics Engineering has published Patent on the title" A Hybrid Ai And Machine Learning Approach For Accurate Skin Cancer Detection And Classification".
- Mr.A.Sadeeshkumar , Assistant Professor, Department of Electrical and Electronics Engineering has published Patent on the title" Design A Study And Analysis Of Hospitality And Tourism Management Research Using The Artificial Intelligence Based Analytics"
- Dr. S. Vinod Kumar, Associate Professor in the Department of Chemical Engineering, has published a research paper titled \*"Characteristic Analysis of Oil-Field-Produced Water"\* in the \*Advances in Water Treatment and Management\* journal.

- Dr. S. Vinod Kumar, Associate Professor in the Department of Chemical Engineering, has published a research paper titled \*"Membrane Desalination of Wastewater for the Contaminant Removal and Reduction of Fouling" in the \*Advances in Water Treatment and Management\* journal.
- Dr. S. Vinod Kumar, Associate Professor in the Department of Chemical Engineering, has published a Book Chapter "Enhancing Power System Management With XAI in Explainable Artificial Intelligence and Solar Energy Integration Publication.
- Ms. R. Lavanya, Assistant Professor in the Department of Chemical Engineering, has successfully Participated in IP Awareness Program under National Intellectual Property Awareness Mission on September 18th
- Ms. Siva Shankari B, Assistant Professor, from the Department of Artificial Intelligence and Data Science has participated in the Training Program on Database Solutions Expert conducted by TalentNext from 07/10/2024 to 25/10/2024.
- Ms.M.R.ARCHANA JENIS from Department of computer science and engineering has successfully completed the Wipro Certified Faculty Program in Database Solutions Expert, conducted by TalentNext, Wipro from 07-Oct-2024 to 25-Oct-2024. This program provided valuable insights and advanced skills, further enhancing my knowledge in database solutions.
- Ms .S. Janani from the Department of computer science and engineering has attended an Offline ATAL FDP on 21-10-2024 to 26-10-2024 in the title called "Immersive Technology Exploring Augmented Reality and Virtual Reality" Organized by Panimalar Engineering College, Chennai.
- Ms Raghavi from the Department of computer science and engineering has attended an Offline ATAL FDP on 21-10-2024 to 26-10-2024 in the title called "Immersive Technology Exploring Augmented Reality and Virtual Reality" Organized by Panimalar Engineering College, Chennai.

- Mr K.Swaminathan from the Department of computer science and engineering has attended an Online FDP on 21-10-2024 to 25-10-2024 in the title called "Advancements in Computing Technologies and Internet of Things" Organized by VIT Chennai- School of Computer Science and Engineering.
- Ms.Raghavi.S from the Department of computer science and engineering has successfully completed the Wipro Certified Faculty Program in Database Solutions Expert, conducted by TalentNext, Wipro from 07-Oct-2024 to 25-Oct-2024. This program provided valuable insights and advanced skills, further enhancing my knowledge in database solutions.
- "Dr. Chandrashekar.A" from the Department of computer science and engineering, has presented the conference proceeding at \*ICOFE- 2024\* on title \*Block chain Enhanced IoT Healthcare: Revolutionizing Secure Remote Access and Data Integrity\* in "K.S.R Engineering College, Namakkal".
- Dr. S. Kiruba from the Department of Physics has authored a book chapter titled "Integrating Al and Machine Learning in Omnichannel Marketing for Superior Customer Experience." This chapter is the fifth installment published by IGI Global and is available for access through the DOI: 10.4018/979-8-3693-4466-8.ch005.
- Dr. G Murugan from the Department of Chemistry has authored a book chapter titled "Emerging Startups in the Evolving Industry Landscape by Empowering Entrepreneur Growth: An Agile Marketing Practice," featured as the 17th chapter in a publication by IGI Global. The chapter is available for access through the DOI: 10.4018/979-8-3693-4466-8.ch017.
- Dr. J Sharmila from the Department of Chemistry has authored a book chapter titled "Adaptive Strategies in Online Marketing Using Machine Learning Techniques," featured in the fourth chapter published by IGI Global. The chapter is available for access at DOL: 10.1018/979-8-3693-4466-8.ch004.
- Dr. N.R. Rajagopalan from the Department of Chemistry has secured a patent titled "Nanocomposite Engineering: Revolutionary Synthesis Method for Capacitive Electrodes," which was published on October 18, 2024.

- Dr. N.R. Rajagopalan from the Department of Chemistry has recently secured a patent for his work titled "Nano Gold-Graphene Oxide Nano Compositions," which was officially published on November 1, 2024.
- Dr. P Saravanan from the Department of Chemistry has recently released a research article entitled "Sequential Detection of Hg2+ and TNT Using a Nitrogen-Doped Polymeric Carbon Dots On-Off-On Fluorescence Sensor." This study was published in Polymers for Advanced Technologies on October 1, 2024, and is available at https://doi.org/10.1002/pat.6608.
- Dr. M. Arun, Dr. R.Selvam, Mr, J. Mariyappan and Mr. K.Muninathan have attended 6 days ATAL FDP on Drone and Development: Building Faculty Capacity for Sustainable Solutions from 21.10.2024 to 26.10.2024 at Vels Institute of Science, Technology and Advanced studies.
- Dr. M. Arun, Assistant Professor from the Department of Mechanical Engineering Published a Text Book titled "Engineering Mechanics" in Quill Tech Publication, ISBN 978 93-6786 636 8
- Dr. . Arunkumar, Professor from Department of Mechanical &Dean Industrial Collaboration & IQAC Published patent titled " METHOD FOR FABRICATING BIOCOMPATIBLE COMPOSITES USING MAGNETRON SPUTTERING " Application no: 202441073875
- Dr. . Arunkumar, Professor from Department of Mechanical &Dean Industrial Collaboration & IQAC participated and completed6 days ATAL Program "Unlocking the Potential of Al: Journey from Transformer Models to GenAl, Applications from Industry to Space, and the Evolving Threat Landscape".

Dr. M. Ganesh, Assistant Professor from Department of Mechanical Engineering, Completed his Viva Voce on 21/10/2024 and received his degree on 27/10/2024 on the topic "Investigation on Deep Hole Drilling under Cryogenic Cooling Environment" Under the Guidance of Dr. N. Arunkumar.





Mrs.R.Ruthra have successfully completed 1st Batch Youth Network for MAB (Man and Biosphere Programme) at Gulf of Mannar Biosphere Reserve which is held from 14.10.2024 to 18.10.2024 at Ramanathapuram Wildlife Division, Ramanathapuram, Tamil Nadu organised by UNESCO and TamilNadu Forest Department conducted by Wildlife Warden Mr. Jagdish Bakan (Indian Forest Service). The Youth Network for MAB event at the Gulf of

Mr. Jagdish Bakan (Indian Forest Service). The Youth Network for MAB event at the Gulf of Mannar Biosphere Reserve focused on hands-on field trips, providing with direct experience of conservation practices and local biodiversity. The program aimed to enhance understanding of sustainable ecosystem management in a practical, immersive setting.

Pradeep, Head Dr. Jayaram and Professor, Department of EEE has completed ORIENTATION PROGRAMME ENERGY MODELLING TOOLS (OSEMOSYS) Organised by the Centre for Climate Change and Disaster Management, Department of Civil Engineering, Anna University, Chennai in Association with the Climate Compatible Growth, the United Kingdom





From the Department of computer science and engineering, "Dr. A CHANDRA SEKAR" Professor, Dean Research of St. Joseph's Group of Institute, has been felicitated for the Special invitation to the Curtain Raiser of the Student Development Program as an Honored Guest.

### STUDENT ACHIEVEMENTS

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# TECHNICAL WRITING CHALLENGE WINNERS

MENTOR: Dr. MANIKANDAN G



Maneesh V



Maria Liz Mathew



Sasirekha M



Nidhisha B III - B

**MENTOR: Dr. RAMAN C J** 



Swathija T



Reina Shannen J



Mokhithraa J



Nilavezhil Oviya V P

We are delighted to celebrate Dhivya Mutharasu, a second-year student from our department, who has achieved first place in the event DROP THE MIC at INVENTE '24, a renowned national-level tech fest hosted by SSN College of Engineering. This event brought together participants from across the country, showcasing their talents and competing at the highest level.





Dhivya's exceptional performance and eloquence stood out in this competitive arena, bringing honor to our department and setting a standard of excellence for her peers. Her achievement is a testament to the potential of our students and our commitment to fostering diverse talents in AI and ML.



### <mark>Ms.Valli Viswa Varshini M</mark>

BATCH:2022-26 is selected as

### **CAMPUS AMBASSADOR**



We are proud to celebrate the achievement of Valli Viswa Varshini M, an exceptional student from the Batch 2022-2026 in the Department of Artificial Intelligence and Machine Learning, who has been appointed as a Campus Ambassador. This prestigious recognition underscores Valli's leadership, dedication, and commitment to fostering a vibrant academic environment. Her appointment highlights her outstanding academic performance, active engagement in departmental initiatives, and passion for promoting technological innovation. In her new role, Valli will act as a bridge between the department and students, organizing events and workshops that enrich learning and inspire her peers. Congratulations to Valli on this well-deserved recognition; we are confident she will excel and make a meaningful impact in this role, continuing to inspire and uplift our academic community.

### STUDENT ACHIEVEMENTS



JAYA SAKTHYASRI AE



JANIS J

We are proud to announce that Janis J and Jaya Sakthyasri AE, students from our AI and ML department, have secured prestigious internships with the Directorate of Public Health and Preventive Medicine. This opportunity will allow them to apply their skills and knowledge in data science and artificial intelligence to real-world public health initiatives, contributing to community health and preventive care.



We are pleased to highlight Manoj D, who has secured an internship with Kalanjiyum at Anna University, Chennai - 25. Manoj will be working as an Intern on a project titled "Big Data Pre and Post Processing for Climate Smart Integrated Decision Making System.".





Three teams from Department of EEE have been shortlisted for the final event of AMRUT- AICTE
Millet Recipe Unleashing Talent. They have shown their talent in the final event held at AICTE Head

Quarters, New Delhi on 25 October 2024.





Team name: Flame Kings Dish: Tamil Barnyard Sushi Team members: Saran P

> Magalekshmi A Sujitha T Ram Praveen M

Mentor: Mrs. C Rama Devi

Team name: Delights of

Parambariya

Dish : Millet atho puri

Team members: Hariprasath S

Rithika R

Shamrutha J A

Oviyavarshini R

<mark>Mentor Name: Dr. Jayarama Pradeep</mark>/



<mark>Team name : Dhaaniya Suvai Arangam</mark>

Dish : Nutristart Fusion Feast

Team members: Pradeepa G

Pooja V

Pradeepa R

Kathir D

Mentor Name: Mrs.Vedavalli S P

### **SPECIAL ACHIEVEMENT**





"Crafting careers, from learning to leading"



BATCH 2021-25



HARINI S DEPT OF CSE



CTC Rs.8.25





# ANNA UNIVERSITY ZONE - III & INTER ZONE



ANNA UNIVERSITY ZONE – III



St. JOSEPH'S COLLEGE OF ENGINEERING

St. JOSEPH'S INSTITUTE OF TECHNOLOGY RUNNERS



SPORTS

