

Excelsior

St. JOSEPH'S COLLEGE OF ENGINEERING - WEEKLY NEWSLETTER

Highest Placement Offer

Rs.47 LAKH

18+ MARQUEE OFFERS

TOTAL PLACEMENT OFFERS
PLACEMENTS 2024-25

1074*

* as on 20-01-2025

St. JOSEPH'S



COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. JOSEPH'S GROUP OF INSTITUTIONS
OMR, CHENNAI - 119



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ABOUT THE COLLEGE

- 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.
- 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**).
- Accredited with **A+ grade** by securing 3.46 on a scale of 4.00 by National Assessment and Accreditation Council (**NAAC**).
- 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)**.
- 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.
- **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 Aayan 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**.
- Won First **AICTE-ECI Chhatra Vishwakarma award** in 2017 as a Best Institute at National level.
- 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**
- 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.
- 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**.





2nd International Conference



The 2nd International Conference on Frontiers in Industrial Biotechnology (ICFIBT 2025) was organized by the Department of Biotechnology, St. Joseph's College of Engineering, Chennai on January 27 and 28, 2025. The event was conducted in collaboration with the Biotech Research Society, India (BRSI), the International Bioprocessing Association (IBA), and the Indian Society for Technical Education (ISTE). The conference was graced by distinguished chief guest Prof. Ashok Pandey, Executive Director, Centre for Energy and Environmental Sustainability, Lucknow and guests of honor, Prof. Jose Antonio Teixeira from the University of Minho, Portugal; Dr. Reeta Singhania from the National Kaohsiung University of Science and Technology, Taiwan; and Prof. Sindhu Raveendram from TKM Institute of Technology, Kollam, India. Their presence underscored the international significance of the event, fostering a platform for knowledge exchange and interdisciplinary collaboration in the field of industrial biotechnology.





I&E student chapter

Manufacturing Mastery

- The Department of Mechanical Engineering at St. Joseph's College of Engineering, in collaboration with the Institution of Engineers (India), hosted the "Manufacturing Mastery Quiz Contest" on January 29, 2025.
- Twenty-two second-year students competed in two rounds, testing their knowledge of manufacturing concepts like Industry 4.0, automation, and lean practices. After intense competition, Kathirvel Raja L. and Justin I. secured first place, with Sathish S. and Vijay Kanagaraja S. finishing second.
- The event fostered innovation and skill development, empowering future industry leaders.



Online Workshop

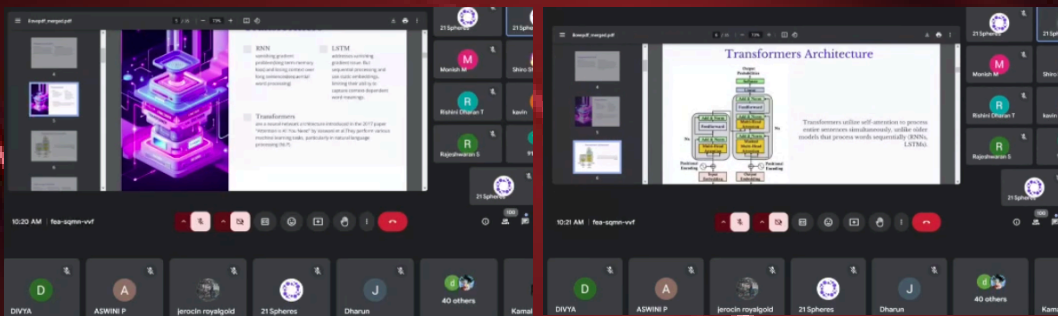
Department of Artificial Intelligence and Data Science, National Student Data Corps - SJCE has successfully organized Two Days Online Workshop on Foundation of AI, ML, Data Science & NLP Basics and Deep Dive into Vectorization, Embeddings & LLM Architecture, in Collaboration with 21 Spheres. The content was delivered by Mr. Om Baval, CEO & Co-Founder @ 21 Spheres and Mr. Chirag Chawla, CTO @ 21 Spheres.



**Mr. Om Baval,
CEO & Co-Founder
@ 21 Spheres**



**Mr. Chirag Chawla,
CTO @ 21 Spheres.**



WORKSHOP ON DRONE TECHNOLOGY

The ED Cell and OPTICA, in association with Vaayusastra Aerospace Ltd, organized a 2-day workshop on Drone Technology for second-year ECE students on 27th and 28th January 2025.



The workshop provided hands-on training and theoretical insights into drone design, assembly, and programming. Students actively engaged in practical sessions, gaining expertise in flight mechanics and control systems

Industry Interaction



Dr. N. Arunkumar, Dean - Industrial Collaboration and IQAC, **Dr. K. Arun**, Associate Professor - Mechanical Engineering had visited Brakes India Private Limited, Padi and interacted with Manger - HR for possible internship, placement, consultancy and expertise/knowledge sharing.



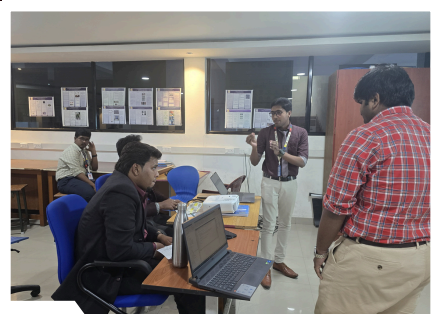
Mrs.Dr.Anitha, a faculty member of the Department of Artificial Intelligence and Machine Learning, offered a guest lecture opportunity to iStudio Technologies Explore, Chennai, on January 31st. Based on their performance, selected candidates may receive a paid internship in the AI domain. This collaboration aims to enhance students' practical knowledge and bridge the gap between academia and industry.



Dr. M Chamundeeswari from the Department of Biotechnology, has attended Professional development program on Effective funding and consultancy proposal writing at "National institute of technical teacher training and research, Chennai from 27/01/2024 to 31/01/2024.



The **VENTURE VISION** - Idea pitching event for II ECE students was held on January 29th, 2025. The event aimed to foster innovation and entrepreneurship among second-year Electronics and Communication Engineering students. Participants presented their ideas focused on solving real-world challenges through technology. The pitches were evaluated based on creativity, feasibility, and technical depth. A diverse range of ideas was presented, including advancements in IoT, communication systems, and wearable tech.



Industry Interaction

Dr. T. D. Sudhakar, Professor-EEE and Mr.Prasad H Assistant Professor-EEE have visited the following companies on 30/01/25.

1) Powertek controls, Ambattur, Chennai - VCB Panel Manufacturers.



2) Lubi Electronics - Ambattur - Panels board Manufacturers & Meter assembling unit.

3) S R Engineering - Ambattur - Machine Panels and Control System Manufacturers.

4) Nissi Engineering Solns - Energy Integrated - Ambattur.



During the discussion the company has offered

- To sign MoU with our institution
- Internship to our students.
- Sharing technology for further research and development





Ms. Sneha S

HACK-A-THON 2025

Final Year Student, Ms. Sneha S from the Department of Artificial Intelligence and Data Science has secured First Place with the Cash Prize of INR 25,000 in the HACK-A-THON 2025, co-organized by ICT Academy, Open Weaver and Confederation of Indian Industry (CII).

Digital Skill Booting Camp

The MBA department has successfully organized a Digital Skilling Boot Camp in collaboration with IBM and the Magic Bus India Foundation. The Program was scheduled from January 27, 2025 till January 29, 2025. This three-day certification program has empowered 182 first-year MBA students with essential digital skills.



NGO ACTIVITIES

II - C

**MOTHER THERESA ORPHANAGE" ON
25TH JANUARY**

**COMPUTER SCIENCE AND
ENGINEERING**

II - D

**ST JOHN DEBRITTO OLD AGE HOME" ON
25TH JANUARY**

Alumni Talk

Role of Management in Effective SCM

The Department of Management Studies hosted an Alumni Talk focused on the "Role of Management in Effective Supply Chain Management" on January 29, 2025, specifically for MBA students who selected the Operations Elective. Our esteemed alumnus, Mr. Abishek M, Assistant Manager of Operations at Bruhat Logistics, delivered a discourse to the students on this pertinent subject.

He provided the students with valuable insights regarding the myriad challenges encountered in supply chain management and emphasized the critical importance of addressing these issues during the planning phase. Furthermore, he guided them on the systematic methodologies that students ought to adhere to in order to execute operations effectively.



Alumni Talk

Acquiring Competencies to Attain Managerial Roles

The Department of Management Studies convened an Alumni Lecture titled "Acquiring Competencies to Attain Managerial Roles" on January 28, 2025. Our esteemed alumni, Ms. Janet Ann Maria S, Human Resources at Altimetrik, and Mr. George Benciker M, Human Resources at Deloitte, elucidated key insights to the students on this matter. They provided the students with a comprehensive understanding of the competitive nature of the job market and delineated the additional skill sets that are imperative for students to enhance their capabilities in order to thrive amidst the competition.



Mr. George Benciker M,
HR, Deloitte

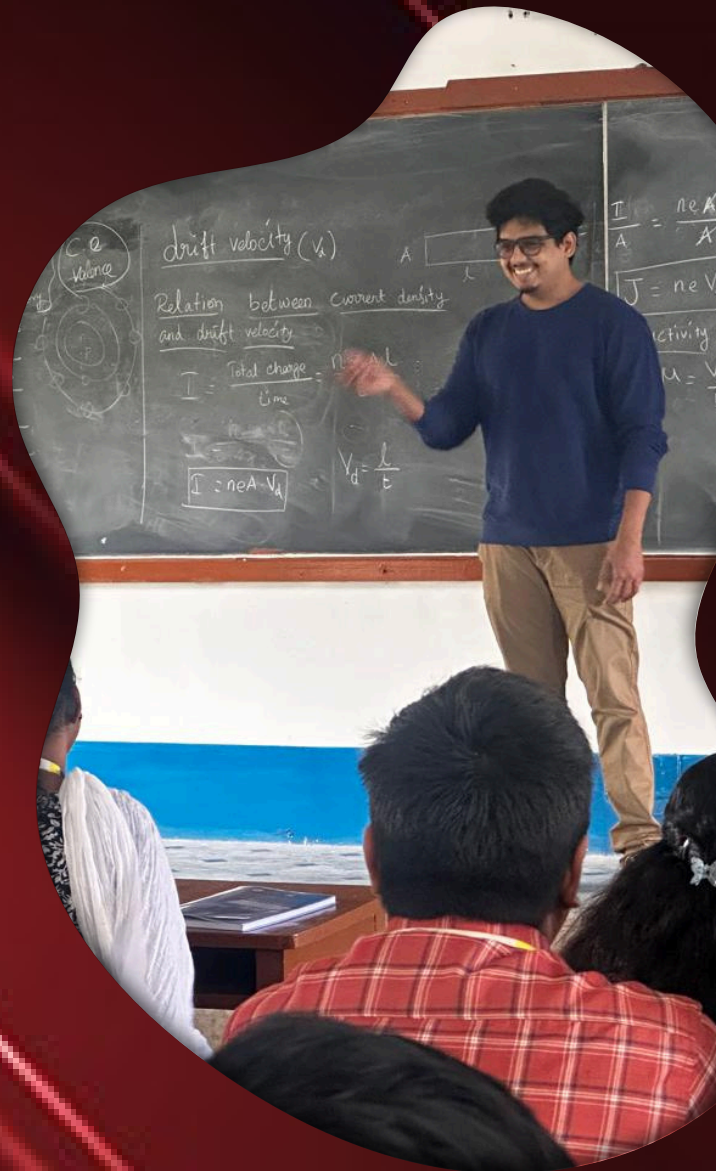


Ms. Janet Ann Maria S,
HR, Altimetrik



Alumni Talk

The Department of Chemical Engineering, St. Joseph's College of Engineering, hosted an alumni talk by Mr. Senthil Kumar TK, Delivery Lead at NielsenIQ and a 2011-2015 batch alumnus. He emphasized the importance of mastering engineering fundamentals for career success and shared insights on industry expectations, problem-solving, and continuous learning. Students actively participated in discussions on career prospects and skill development. Such interactions continue to inspire students, bridging the gap between academics and industry.



Senthil Kumar TK
Batch 2011-15

Delivery Lead

NielsenIQ

Staff Achievements

FACULTY DEVELOPMENT PROGRAM



Dr. P. Renuka, Professor, Department of Chemical Engineering, St. Joseph's College of Engineering, successfully completed an industry training program at Nippo India Pvt Ltd, Tada. The training provided valuable exposure to industrial practices, advanced technologies, and real-world applications in chemical engineering. This initiative enhances academic-industry collaboration, enabling the integration of practical insights into teaching and research.



EXPERT TALK

Dr. S. Sujatha, Assistant Professor in the Department of Chemical Engineering at St. Joseph's College of Engineering, was honored with a Certificate of Appreciation for delivering an expert talk on "Nanomaterials in Mechanical Engineering" at an 08-day Virtual Faculty Development Program (FDP) organized by the Department of Mechanical Engineering, E.G.S. Pillay Engineering College, Nagapattinam.



The FDP, titled "Material Innovation Shaping the Future," was conducted from December 23, 2024, to January 3, 2025, and aimed to provide faculty members with insights into cutting-edge advancements in materials science and engineering. Dr. Sujatha's session focused on the role of nanomaterials in mechanical applications, highlighting their potential in improving performance, sustainability, and innovation in various engineering fields.

Staff Achievements

RESOURCE PERSON AND JUDGE



Mr. S. Niresh Kumar, Assistant professor, Department of CSE took the roles of resource person and judge for **IEEE SPAX** sponsored Professional Event **QUINTESSENCE NEXUS 2.0**. which was organised by Sri Sai Ram Engineering College, Tambaram, Chennai on 26th and 27th December 2024.



Dr. P. Saravanan, Associate Professor in the Department of Science, is recognized for his valuable presence and contribution as a **Conference Chair at the International Conference on Innovations in Engineering, Management, and Science (ICIEMS)-2025**. The event was organized by the Research & Development Cell and the Department of CSE at Harcourt Butler Technical University (HBTU), Kanpur, Uttar Pradesh, in collaboration with RSP Conference Hub, Coimbatore, Tamil Nadu. The conference took place on January 31 and February 1, 2025.



Dr. T D SUDHAKAR, Professor-EEE, **Chief guest and Jury member for 7th Inter School Science Exhibition Competition**, organized by Sairam Vidyalaya Senior Secondary School, Madipakkam On 24 and 25 January 2025, Over 19 schools exhibited 144 projects in this event

Staff Achievements



Mr. G. Ashwin Prabhu
ASSISTANT PROFESSOR

- **Mr. G. Ashwin Prabhu**, Assistant Professor from the Department of Mechanical Engineering has published a paper entitled "**A Synergistic Approach Using FCN and Gradient Descent Optimization for RUL Prediction of Lithium Ion Batteries**", IEEE Xplore Scopus Indexed Conference on 27th January 2025.
- **Mr. G. Ashwin Prabhu**, Assistant Professor from the Department of Mechanical Engineering has published a paper entitled "**A Validation Perspective on Random Forest for Precise Remaining Useful Life Prediction**", IEEE Xplore Scopus Indexed Conference on 27th January 2025.



G D Vignesh
ASSISTANT PROFESSOR

G D Vignesh, Assistant Professor, Department of ECE have received Inspirational Educator Award from NTL Technology, Tamil Nadu, India, for his academic contribution in innovative teaching practices under the category of "**Inspirational Educator Award**", having been adjudicated during the academic year 2024-2025.



Dr. G. Baskar
PROFESSOR

- **Dr. G. Baskar** from department of Biotechnology has published research papers entitled "**Process Optimization and kinetics of Biodiesel Production from Microalgal Oil Using Potassium Doped Biochar heterogeneous Catalyst**" in the journal, Energy and Environment.
- **Dr. G. Baskar** from Department of Biotechnology has published a research paper "**Valorization of Maize Processing Industrial Waste as Activated Magnetic Biochar Catalyst through Pyrolysis for Biodiesel Production: Detailed Investigations on Economic Profitability and Environmental Emissions**" in the journal, Chemical Engineering Research and Design

Staff Achievements



Dr. M Chamundeeswari
ASSOCIATE PROFESSOR

- **Dr. M Chamundeeswari** from department of Biotechnology, has published 2 book chapters entitled “**Nanotechnology in Gene Delivery**” and “Contamination and Impact of Urban Effluents on the Antimicrobial Resistance of Microbes”.
- **Dr. Chamundeeswari** from the Department of Biotechnology, has published a research article titled “**Sustainable strategy of biowaste into graphene-based zinc oxide nanocomposite using green nanotechnology for topical applications**” in the journal of Biotechnology and applied biochemistry with an impact factor of 3.2.



Dr. A. M. Balamurugan
ASSOCIATE PROFESSOR

- **Dr. A. M. Balamurugan**, Associate Professor, R. S. Vishal and R. Vignesh, Final year Department of ECE has presented a paper titled “**Next Hop Selection Algorithm using DS Evidence Theory for Wireless Sensor Networks**” in 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024
- **A. M. Balamurugan**, Associate Professor and V. Sai Ravi Ganesh and R. Prinston, Final year Department of ECE has presented a paper titled “**Enhanced Fast Recovery Dynamic Assembly Period Algorithm for TCP over OBS Networks**” in 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024.

Staff Achievements



G. D. Vignesh
ASSISTANT PROFESSOR

A. M. Balamurugan, Associate Professor and **G. D. Vignesh**, Assistant Professor, ECE Department has presented a paper titled “**Optimizing Security in OBS: Implementation and Evaluation of Modified SHA-160 Algorithm**” in 2024 First International Conference on Software, Systems and Information Technology (SSITCON), Tumkur, India, 2024



A. M. Balamurugan
ASSOCIATE PROFESSOR



D Lakshmi
ASSOCIATE PROFESSOR

D Lakshmi, Associate Professor, Department of ECE has presented a paper titled “**IoT-Connected Telehealth Environments with Long Short-Term Memory Networks for Precise Time-Series Patient Behavior Analysis**” in 2024 International Conference on Intelligent Systems for Cybersecurity (ISCS)



Dr. R. Niruban
ASSOCIATE PROFESSOR

Dr. R. Niruban, Associate Professor, Department of ECE has presented a paper titled “**An Efficient Deep Learning Based Seq2Seq Model for Abstractive Text Summarization: Artificial Intelligence and Speech Technology**.” AIST 2023. Communications in Computer and Information Science

Staff Achievements



Dr. G. Purushothaman
PROFESSOR

Dr. G. Purushothaman, Professor, Department of Mathematics & English has published a research article entitled "**Oscillation of Third-Order Thomas-Fermi-Type Nonlinear Differential Equations with an Advanced Argument**" in Mathematics (MDPI), December 17, 2024.



Dr. G. Venkat Narayanan
ASSOCIATE PROFESSOR

Dr. G. Venkat Narayanan, Associate Professor, Department of Mathematics & English has published a research article entitled "**Decomposition of Bicyclic Graphs into Paths and Cycles Subgraph for Easy Optimization of Network Conflicts**" was published in the Baltica Journal, Volume 37, Issue 12, on pages 214-243.



Dr. P. Agilan
ASSOCIATE PROFESSOR

Dr. P. Agilan, Associate Professor, Department of Mathematics & English has published a research article entitled "Exploring Advanced Stability of Higher - Order Functional Equations in Neutrosophic Normed Spaces via Hyers - Ulam Methodologies" in Communications on Applied Nonlinear Analysis.



Dr. B. Shoba
ASSISTANT PROFESSOR

Dr. B. Shoba, Assistant Professor, Department of Mathematics & English has published a research article entitled "**Navigating the Future with YOLOv9 for Advanced Traffic Sign Recognition in Autonomous Vehicles**" in International Journal of Computational and Experimental Science and Engineering (IJCESN).

Staff Achievements



Dr. U. Venkateswara
PROFESSOR

Dr. U. Venkateswara, Professor, Department of Mathematics & English has published a research article entitled "**Analysing the Concept of Holy Grail, Symbols, and Narrative Aspects through a Historical Reading of Dan Brown's The Da Vinci Code.**" in World Journal of English Language, 2025, Volume & Issue: 15(2), Pages: 368-374.



Dr. M. Arulperumjothi
ASSISTANT PROFESSOR

Dr. M. Arulperumjothi, Assistant Professor, Department of Mathematics & English has published a research article entitled "**Computational Analysis of Linear Chain of Holey Nanographene and Their Molecular Characterizations**" in urnal of Molecular Modeling, January 25, 2025.



Dr V Muthulakshmi
PROFESSOR

- **Dr V Muthulakshmi**, Professor of Computer Science and Engineering Department has published paper on title called "**Probabilistic Framework for Weather-Informed Travel Itinerary Optimization**" in International Conference on Computer, Communication, and Signal Processing, 371-385, 2024.
- **Dr V Muthu Lakshmi**, Professor of Computer Science and Engineering Department, has published paper on title called "**Enhancing Sign Language Recognition with Gesture-to-Text Conversion Through Computer Vision**" in International Conference on Computer, Communication, and Signal Processing, 213-224, 2024.

Staff Achievements



Dr. S. Rama
ASSISTANT PROFESSOR

Dr. S. Rama, Assistant Professor in the Department of Science, has authored a **research article** titled "**Bifunctional Applications of Magnesium Oxide Nanoparticles Using Chitosan via Green Nanoengineering.**" This article was published in the journal *Ionics* (Impact Factor: 2.4) on January 24, 2025, by Springer Nature Link.



Dr. M. Arulperumjothi
ASSISTANT PROFESSOR

Dr. G Senthil Murugan, an Assistant Professor in the Department of Science, has co-authored a **research article** titled "**Intriguing Magnetic and Electronic Behaviors in La and Ru Doped Sr_2IrO_4 .**" The paper was published on January 22, 2025, in *Journal of Physics: Condensed Matter* (Volume 37, Number 11)

Dr. K. Dhanaraj, Dr. P. Chellamani and Dr. S. Gopi Krishna, Assistant Professor in the Department of S & H, took part in the "**1930 Walkathon**", an initiative aimed at promoting cyber safety, digital wellness, and community engagement. The event, organized by the **Tamil Nadu Police Cyber Crime Wing**, was held in **Chennai on January 29, 2025**, and has been officially recognized in the **World Book of Records, London**.



Mr. R. Elanthirayan received **FELLOW** in "**The Institute of Engineers**" (India) professional Society.

Staff Achievements

- 1 **Dr. Vaddi Seshagiri Rao**, Principal and Professor, Department of Mechanical Engineering, Published a Patent Titled "**A federated approach for integrating digital healthcare in hospitality management**" Application no: 202441098620A
- 2 **Dr. Vaddi Seshagiri Rao**, Principal and Professor, Department of Mechanical Engineering, Published a Patent Titled "**Integrating IOT,BLOCK CHAIN,and AI for enhanced efficiency for smart home automation**" Application no: 202441098672A
- 3 **Dr. Vaddi Seshagiri Rao**, Principal and Professor, Department of Mechanical Engineering, Published a Patent Titled "**Machine Learning-based Automatic prediction of student performance to support higher education systems**" Application no: 202541001928A
- 4 **Dr. K. M. Kumar and Dr. R. Selvam**, Associate Professors from the Department of Mechanical Engineering participated in AICTE VAANI-Sponsored Three-Day Workshop on "**Technological Advancements in Space and Defense Sector/விண்வெளி மற்றும் பாதுகாப்பு துறையில் தொழில்நுட்ப முன்னேற்றங்கள்**", scheduled to be held from 30th January to 1st February 2025 at the MIT Campus, Anna University, Chennai.
- 5 **Dr. G. Baskar** from Department of Biotechnology has delivered a technical talk on "**Marine Microalgae Biorefinery for Biofuels production**" in the 4 days VGST-FDP on Advances and Recent Trends in Environmental and Energy Application of Nanomaterials.
- 6 **Dr. G. Baskar** from Department of Biotechnology has been formally recognized as a reviewer for Systems Microbiology and Biomanufacturing for the year of 2024.
- 7 **Dr. M Chamundeeswari** from department of Biotechnology, has attended the **9th international conference on global practices of multidisciplinary scientific academy** held at Havana, Cuba organized by SIIRT University from 21/01/2025 to 28/01/2025.

Staff Achievements

8

Dr. M Chamundeeswari from department of Biotechnology, has attended the **8th international antalya scientific research and innovative congress** held from 25/01/2025 to 27/01/2025 at turkey (Online Mode).

9

Dr.M. Shree Rama from department of biotechnology has attended AICTE -ATAL Faculty Development program on **Tailored treatment: Advancing faculty knowledge in personalized medicine** at St.Peter's college of Engineering and technology from 27/01/2025 to 01/02/2025.

10

Dr. M. Shree Rama from Department of Biotechnology has published a patent entitled "**Methods and Compositions for Enhancing Plant Stress Tolerance through Genetic Modifications**"

11

Ms. A. Anli Dino from department of biotechnology has attended AICTE -ATAL Faculty Development program on **Tailored treatment: Advancing faculty knowledge in personalized medicine** at St.Peter's college of Engineering and technology from 27/01/2025 to 01/02/2025.

12

Ms. A. Anli Dino from department of Biotechnology has published a patent entitled "**Bioengineered Plant-Microbe Interaction for Sustainable Agriculture and Environmental Remediation**" Patent Number : 202441105346.

13

M.Angelin Ponrani, Assistant Professor, Department of ECE has published a Patent titled "**A Convolutional Neural Network-Based System for the Recognition and Voice Alert of Traffic Sign Boards**"

14

Dr.D.Sumithra Sofia Assistant Professor, Department of ECE has published a Patent titled

1. **Dynamic Resource Allocation System for Optimized Supply Chain**
2. **Nano Antennas for wireless energy transfer and communication**
3. **AI-Based Signal Processing for Efficient Wireless Communication in Industrial IoT Systems**

Staff Achievements

- 15** **Dr. S. Aruna**, Assistant Professor, Department of Mathematics & English has published a patent "**Various Physical Phenomena of a Hybrid Ferrofluid: An Empirical Study on Esterification**". This study analyzes $\text{Fe}_3\text{O}_4\text{-CoFe}_2\text{O}_4/\text{H}_2\text{O}$ hybrid ferrofluid for optimizing heat and mass transfer in esterification.
- 16** **Dr. M. Shree Rama** from Department of Biotechnology has published a patent entitled "**Methods and Compositions for Enhancing Plant Stress Tolerance through Genetic Modifications**"
- 17** **Dr. K. Nanthitha**, Assistant Professor, Department of Mathematics & English has published a patent "**AI-Driven Automated Employee Performance Prediction Systems for Enhanced HR Management to Improve Organizational Growth**". Filed on December 18, 2024, it includes four claims and was published on January 3, 2025.
- 18** **Mr. S. Nireesh Kumar**, Assistant professor, Department of CSE has presented a research paper titled "**Real Time Sign Language Interpretation Leveraging Computer Vision Technologies**" at the International Conference on Multi-Agent Systems for Collaborative Intelligence. The event was hosted by Surya Engineering College, Erode, Tamil Nadu, on 20 - 22nd January 2025.
- 19** **Ms. Shiny R M**, Assistant professor of computer science and engineering Department has presented a research paper titled "**Early Detection of Parkinsons Disease through Vocal Features**" at the International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI-2025) organized by Surya Engineering College on 20-22 ,January 2025
- 20** **Ms.Steffina Morin L.** and **Ms.P.Umamaheswari**, Assistant Professor, Department of Computer Science and Engineering Successfully Participated the NITTTR Chandigarh and AICTE Recognized FDP on "**Tools for Research in Cloud, Fog and Edge Computing**" Conducted by Computer Science and Engineering Department from 21st October 2024 to 25th Oct 2024 at St.Joseph's College of Engineering, Chennai, Tamil Nadu.

Staff Achievements

- 21** **Dr. G. Meena Devi**, Professor & Head, Department of Mathematics & English has published a patent "**The Valuation Channel of Corporate Social Responsibility in Emerging Markets**". This invention proposes a novel framework to assess the valuation impact of Corporate Social Responsibility (CSR) initiatives in emerging markets. It integrates stakeholder mapping, impact assessment, and advanced data analytics to provide actionable insights into CSR's financial and social contributions.
- 22** **Dr. G. Sasikumar**, Assistant Professor in the Department of Science, has published a research patent titled "**Innovative Characterization Techniques for Copper Oxide Nanoparticles and Their Practical Uses**," on January 10, 2025.
- 23** **Dr. S. Manikandan**, Assistant Professor in the Department of Science, has published a research patent titled "**High Performance Electrode Fabrication. New approaches in Synthesizing MgO Carbon Nanocomposites**," on January 10, 2025
- 24** **Dr. K. Jayamoorthy**, Associate Professor and **Dr. S. M. Prakash**, **Dr. G. Sasikumar**, and **Dr. A. Uma Devi**, Assistant Professor in the department of Science, participated in the international webinar "**Current Trends in Chemistry and its Diverse Applications - 2025 (CTCDA-2025)**" on January 25, 2025. The event was conducted by the Department of Chemistry, Pachaiyappa's College for Men, Kanchipuram, Tamil Nadu
- 25** **Dr. P. Saravanan**, Associate Professor in the Department of Science, has participated in the 9th International Conference on Global Practice of Multidisciplinary Scientific Studies, held from January 21-28, 2025, in Havana, Cuba. The conference was organized by Siirt University, Ege University, and the IKSAD Institute. He delivered an oral presentation titled "**Valorization of Diverse Waste-Derived Nanocellulose for Multifaceted Applications: A Review**."

Student Achievements

WORKSHOP



20 students of II Year Biotechnology have attended one day training cum Workshop on “**Biomass Fermentation and Distillation for Bioethanol Production**” organized by Sathyabama Institute of Science and Technology on 25th January.



MARINA REPUBLIC DAY PARADE

Halin Christopher S.J., second-year Computer Science and Engineering student, successfully participated in the Marina Republic Day Parade on January 26, 2025. This event was organized by the NCC Tamil Nadu, Puducherry, and Andaman and Nicobar Directorate, and it took place from January 3 to January 12, 2025, and from January 18 to January 27, 2025 at Chennai.



Student Achievements

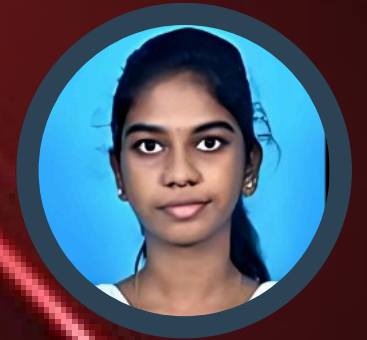
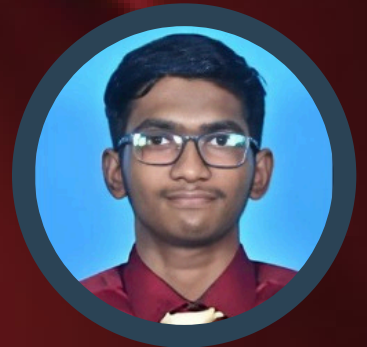
INTERNSHIP



Santosh K J, a III-year student of the Department of Chemical Engineering, has secured a paid summer internship at IIT Madras with a stipend of ₹15,000 for four weeks. This opportunity was awarded to him for being a topper in an NPTEL course, showcasing his academic excellence. The internship will provide him with hands-on experience, exposure to advanced research, and the chance to collaborate with experts in the field. His achievement highlights the institution's commitment to fostering student growth and academic success.



Motheeswaran K and Nikhisha Vibhitha R, Electronics and Communication Engineering students from the 2021-2025 batch, have secured internships at **Candela Technologies**, a network testing solutions company. Each student will receive a **monthly stipend of Rs. 20,000** during their internship, providing them with valuable practical experience in a real-world setting and the opportunity to learn from industry professionals



Bhagwanthi Manavalan, an Electronics and Communication Engineering student from the 2021-2025 batch at St. Joseph's College of Engineering (Chennai), has secured an **internship at 4i Apps Solutions with a monthly stipend of Rs. 20,000**. This internship will provide Bhagwanthi with valuable work exposure in the field of software development, allowing her to apply her academic knowledge to real-world projects.

Student Achievements

AML PLACEMENTS



Kausik D, a 3rd-year student of the Department of Artificial Intelligence and Machine Learning, has secured a Security Analyst Internship at **Securin India Private Limited** with a package of **8 LPA**. This achievement highlights his expertise in cybersecurity and his dedication to the field. His selection for this prestigious role reflects his strong technical skills and commitment to professional growth.

Jayasurya P, a final-year student of the Department of Artificial Intelligence and Machine Learning, has been placed as a Graduate Trainee at **Episode Six** with a CTC of **5 LPA**. His achievement showcases his dedication and technical expertise in the AI and ML domain. Securing a role in a reputed company like Episode Six highlights his strong skill set and potential for growth in the industry.



MECHANICAL PLACEMENTS



Mr. Sivapathi M, final year student from the Mechanical Engineering Department was placed in **Reliance Industries Ltd.** as a GET with an annual remuneration of **Rs.7.5 Lakhs** during the training period.

Mr. Karthick kumar S, final year student from the Mechanical Engineering Department was placed in **Pickyourtrall** Company as a CX Associate with an annual remuneration of **Rs.3.23 Lakhs** during the training period.



Student Achievements

SYMPOSIUM WINNER

II Year **Biotechnology** Students **Dharshini V** , **Jerusha shirlyn abraham** and **Deekshi K** has participated a Symposium and secured **2nd price** in murder mystery which was conducted by **EASWARI ENGINEERING COLLEGE** on 1/2/25.



Maria Liz Mathew and **Ashwin K.B.**, students of the **Department of AML (Expansion)**, secured **2nd place** in the Paper Presentation event organized by **SCARDS (Student Forum)** of Easwari Engineering College on February 1, 2025. They were awarded a cash prize for their outstanding presentation and innovative ideas.



Sai Siva Rubha and **Swathika**, 2nd-year students of **AML B**, secured **3rd place** in the "**Tech Tank**" event organized by **SCARDS** at Easwari Engineering College on February 1, 2025. Their achievement reflects their technical skills, innovative thinking, and dedication to excellence. Competing against talented participants, they showcased their expertise in Artificial Intelligence and Machine Learning, earning well-deserved recognition. This accomplishment highlights their potential and enthusiasm for technological advancements, paving the way for future successes in the field.



Student Achievements

SYMPOSIUM WINNER

Guruvedesh K.P., a student of the **Department of AIML**, secured **2nd place** in the "**Geek Feud**" event organized by **SCARDS (Student Forum)** of **Easwari Engineering College** on **February 1, 2025**. He was awarded a cash prize for his exceptional performance and technical expertise.



Third and Second Year EEE students **Sanmitha V**, **Samyuktha Y**, **Bhuvaneshwari T**, **Arulmozhi R**, **Shreelekha K**, **Ramya K**, **Yazhini S** had won the **Sixth Place with Cash Award of Rs 5000** in the Final Round of **Explore E Venture National Level Hackathon** held on **24th and 25th January 2025** at the center for electrical mobility, **SRM Institute of Science and Technology, Kattankulathur**.



Sanchana, 3rd-year **Electrical and Electronics Engineering** student, has secured **2nd place** in the prestigious "**Sol Tamizha Sol - Speech**" competition conducted by **SRM TAMIZHPERAYAM** at **SRM University, Kattankulathur** on **January 26, 2025**. With her exceptional oratory skills and profound articulation, **Sanchana** has won a cash prize of **₹75,000** and has been shortlisted for the state-level competition, set to take place in **April 2025**.



Placement empowerment Programme



TECH TALK

Placement Empowerment Program (PEP) - VLSI Design Center at St. Joseph's Group of Institutions organized a remarkable tech talk 25/1/2025 featuring **Mr. Shaik Aleem Ur Rehman, Silicon Engineer at Microsoft (Ex-AMD and INTEL)** with over a decade of experience in the semiconductor industry. The event witnessed enthusiastic participation from over 150 VLSI aspirants, showcasing a diverse and eager group of future engineers united by their passion for semiconductor technology. Mr. Rehman began the session by explaining the fundamental differences between ASICs and FPGAs, highlighting their unique advantages and challenges. His use of relatable examples and real-world analogies made even the most complex concepts easy to understand. He discussed how innovation in chip design impacts everyday technologies, diving into the opportunities in open-source architectures like RISC-V and MIPS that foster experimentation and creativity compared to proprietary architectures like x86 and ARM. His insights into AI-based chips and their applications in fields like space exploration, blockchain, and gaming were both inspiring and thought-provoking. This session was a valuable resource of knowledge, shedding light on future semiconductor technologies and career paths in ASIC design. It bridged the gap between academia and industry, fostering a culture of practical learning and real-world application.

Placement empowerment Programme

Inspiring Session on FOSS in Engineering Education

Placement Empowerment Program (PEP) at St. Joseph's Group of Institutions in collaboration with FOSS United organized a session on FOSS in Engineering Education delivered by the esteemed guest speaker, **Mr. Sai Rahul Poruri, CEO of FOSS United**, for his insightful presentation on the power of FOSS tools across disciplines—from Python and CAD to bioinformatics and ROS, integrating Free and Open-Source Software (FOSS) in Engineering Education dated on 29/1/2025! **Mr. Hari Prasanth S, Chennai FOSS Lead and Founder of Mahathan**, skillfully moderated the session and facilitated engaging discussions on strategies to integrate FOSS into our curriculum.

The session highlighted how FOSS empowers students, encourages collaboration among multi disciplinary Engineering streams, and bridges the gap between academia and industry. It was truly inspiring to hear from our HODs and senior faculty members, who shared their valuable insights and enthusiasm for adopting FOSS in their teaching practices.

