

Excelsior

St. JOSEPH'S COLLEGE OF ENGINEERING - WEEKLY NEWSLETTER

REPUBLIC DAY

CELEBRATIONS
26 JANUARY 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**.



REPUBLIC DAY CELEBRATIONS





EDUCATE 5.0_A PRINCIPALS' CONCLAVE



INDUSTRIAL INTERACTION



ECE faculty members, Mr. G.D. Vignesh and Dr. R. Niruban, recently visited Glonix Electronics and Pumo Technovations, companies specializing in PCB design, testing, and industrial automation. During their visit, they discussed potential collaborations with company representatives, including Mrs. K. Agalya and Mr. E. Nikilan, to enhance student learning. Key areas of focus included establishing a Memorandum of Understanding, providing paid internships, conducting industrial training and workshops, and facilitating placement opportunities for students, thereby bridging the gap between academia and industry.

OPTICA STUDENT CHAPTER



The OPTICA Student Chapter of ECE Department at St. Joseph's College of Engineering recently hosted a successful outreach event on January 24th, 2025, designed to pique the interest of high school students (grades 9-12) in advanced engineering fields. The event, focused on Industry 4.0, IoT, and AI, featured interactive projects and engaging demonstrations. By providing hands-on experiences, the organizers aimed to demystify complex engineering concepts, fostering a deeper understanding and inspiring future generations of engineers and technologists.

ONLINE ATAL FACULTY DEVELOPMENT PROGRAM

SIX DAYS AICTE TRAINING AND LEARNING FACULTY DEVELOPMENT PROGRAMME (ONLINE MODE)



On

Innovations in Manufacturing: Bridging Academia and Industry 4.0 In a Virtual Environment



Organized by

**Department of Science,
St. Joseph's College of Engineering,
OMR, Chennai, Tamil Nadu, India**

**20-01-2025 to 25-01-2025
(06:00 pm to 09:30 pm (IST))**

The Department of Science successfully organized and conducted a 6-day Online ATAL Faculty Development Program (FDP) titled "Innovations in Manufacturing: Bridging Academia and Industry 4.0 in a Virtual Environment," held from January 20–25, 2025. The event provided a valuable platform for faculty members to connect with experts and industry professionals, fostering opportunities for future collaborations, internships, and research ventures.



**ST. JOHNS
DEBRITTO OLD
AGE HOME " ON
9.01.2025**

COMPUTER SCIENCE AND ENGINEERING

**ST JOSEPH'S HOME FOR
CHILDREN,
KOTHAVAKKAM,
CHENGALPATTU DISTRICT
" ON 9.01.2025**



NGO ACTIVITIES



**SASTHA CHARITABLE
TRUST, KUNDRATHUR"
ON 9.01.2025**



II-A

**KARUNAI
ULLANGAL-OLDAGE
HOME
CHEYLRRR
TALUK, CHENGALPA
TTU DIST**

DEPARTMENT OF AML

**SAKTHI ADHARAVU
ILLAM.
MADURAVOYAL,**



II-B

DEPARTMENT OF BIOTECH



II YEAR

**ALAI KALVI KUDIL -
EDUCATION
CENTRE-
KALPAKKAM, ON
25/01/2025.**



II-A

HOPE PUBLIC CHARITABLE TRUST, PATTABIRAM ON 23/01/2025

DEPARTMENT OF MECHANICAL ENGINEERING

ST. JOSEPH'S HOME FOR CHILDREN, KOOTHAVAKKAM ON 23/01/2025



II-C

NGO ACTIVITIES



II-B

OXFORD HOME, AADHANUR, URAPPAKAM ON 23/01/2025



GINDY OLD AGE HOME

DEPARTMENT OF MBA

ALUMINI TALK



Department of Mechanical Engineering, Organized a Alumni Talk on title Innovation Research Directions in Mechanical Engineering for Future Oil and Gas Technologies on 22/01/2025. Mr.J. Navin Sales Michael, Proud Alumini of batch 2019-2023, working in Saipem India PProjects Private limited as Piping Design Engineer.

MOCK INTERVIEW BY ALUMNI



Department of EEE has organised Mock Interview by Our Alumni on 25.01.2025. Around 30 Alumni analysed the performance of our second year students and motivated them. Alumni interacted with the students and shared their personal experiences. The session truly gave a great experience for second year students to plan for future placement requirements.



INSEGNANTE 2

Department of EEE in association with IEEE St. Joseph's College of Engineering Student Branch (SBC60101) has successfully organized a webinar Sessions of the Insegnante 2 series



Insegnante 2 series on 10.01.2025 was led by Ms. Veddavalli S P , Assistant Professor of the Department of Electrical and Electronics Engineering. The speaker provided a comprehensive overview of convolutional neural networks, including fundamental principles, real-world applications, and their significance in Vehicle-to-Grid (V2G) systems.



Insegnante 2 series on 21.01.2025 was led by Ms. C Ramadevi, Assistant Professor of the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering. The speaker provided a comprehensive overview of Medical Image Processing, covering fundamental principles, real-world applications, and its role in modern healthcare advancements. The session also showcased relevant websites and tools used in the field, offering students additional resources for further exploration.



Insegnante 2 series on 23.01.2025 was led by Dr. Venmathi M, Associate Professor of the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering. The speaker provided a comprehensive overview of multiport converters for photovoltaic (PV) applications, delving into their design principles, operational advantages, and real-world applications in renewable energy systems.

Staff Achievements



Mrs. P. Thenmozhi
ASSOCIATE PROFESSOR

Mrs. P. Thenmozhi, Assistant Professor, Department of ECE has published a book titled "Biomedical instrumentation". ISBN number: 978-81-981910-7-6



Dr. P. Saravanan
ASSOCIATE PROFESSOR

Dr. P. Saravanan, Associate Professor in the Department of Science, authored three research articles published in January 2025:

1. "Emerging Trends in Food Process Engineering: Integrating Sensing Technologies for Health, Sustainability, and Consumer Preferences" Published in Journal of Food Process Engineering (Impact Factor: 3.0). DOI: 10.1111/jfpe.70035.
2. "Polysaccharides and Proteins-Based Edible Coatings for Food Protection: Classification, Properties, & Public Demands (2020-2024)" Published in Journal of Food Measurement and Characterization (Impact Factor: 2.9). DOI: 10.1007/s11694-024-03090-9.
3. "Catalytic Hydroprocessing of Mixed Plastic Waste Using Ni-Ce/ZSM-5: Performance and Emission Analysis of Diesel Blends Across Blending Ratios" Published in Energy Reports (Impact Factor: 4.94). DOI: 10.1016/j.egy.2025.01.016.



Mr. K. Pravinkumar
ASSISTANT PROFESSOR

Mr. K. Pravinkumar Assistant Professor, Mechanical Engineering, St. Joseph's College of Engineering, has Authored and Published a Book titled, "Emerging Trends in Multidisciplinary Engineering: A Comprehensive Overview", Volume III" (ISBN: 978-81-984006-6-6)



Dr. G. Baskar
PROFESSOR

Dr. G. Baskar from Department of Biotechnology has Published a research Paper "Process Optimization and Kinetics of Biodiesel Production from microalgal oil using potassium doped biochar heterogenous catalyst, Energy and Environment.

Staff Achievements

- 1** **Mr.K.Swaminathan** - Assistant Professor, **Department of Computer Science and Engineering** Successfully Participated and Completed the AICTE Sponsored **ATAL FDP** on "**Industry 4.0 - Smart Manufacturing and Sustainable Development**" Organized by **SATHIYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY** from January 06th 2025 to 11th 2025.
- 2** **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.
- 3** **Dr. K. Jayamoorthy**, Associate Professor in the Department of Science, participated in the National Pitching round of **UDYAMOTSAV 2025**, which is part of the **MoE-AICTE Investor Network initiative celebrating National Startup Day**.
- 4** **Mr. K. Muninathan**, Assistant Professor in the Department of Mechanical Engineering, participated in the National Pitching round of **UDYAMOTSAV 2025**, which is part of the **MoE-AICTE Investor Network initiative celebrating National Startup Day**.
- 5** **Dr. P. Krishnan**, Associate Professor in the Department of Chemistry, served as the Chief Guest at the 2025 Naahar TechFest organized by Naahar Public School Senior Secondary (CBSE) on 25th January 2025
- 6** **Ms.P.Umamaheswari** - Assistant Professor, Department of Computer Science and Engineering Successfully Participated and Completed the AICTE Sponsored ATAL FDP on "**Industry 4.0 - Smart Manufacturing and Sustainable Development**" Organized by **SATHIYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY** from January 06th 2025 to 11th 2025.

Staff Achievements

- 7 **Ms. saranya.D** - Assistant Professor, Department of Computer Science and Engineering Successfully Participated and Completed the AICTE Sponsored ATAL FDP on "**Industry 4.0 - Smart Manufacturing and Sustainable Development**" Organized by SATHIYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY from January 06th 2025 to 11th 2025.
- 8 **Mr. B. Blessed Sam**- Assistant Professor, Department of Computer Science and Engineering Successfully Participated and Completed the AICTE Sponsored ATAL FDP on "**Industry 4.0 - Smart Manufacturing and Sustainable Development**" Organized by SATHIYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY from January 06th 2025 to 11th 2025.
- 9 **Ms. M.R. Archana Jenis**, from Department of computer science and engineering has presented a research paper titled "**Enhancing Public Safety: Real-Time Crowd and Violence Detection Using YOLOv8 with Automated Alerts and Notifications**" at the 3rd International Conference on Innovative Materials and Smart Solutions for Sustainability (ICIMSSS-24). The event was hosted by the Department of Civil Engineering, K.S.R. College of Engineering, Namakkal, Tamil Nadu, on 27th and 28th December 2024, in association with NTL Technology.
- 10 **Mr. B. Blessed Sam**, Assistant professor of computer science and engineering Department has published Indian Patent on 20/12/2024 in the title called "**An autonomous System for Predicting DDoS Attacks on Local Area Networks and the Internet**".
- 11 **Ms.P.Uma maheswari**, assistant professor of computer science and engineering department has Published Indian Patent on 06/12/2024 in the title called "**Proposal for Mobile Payments Using NFC Technology Applicable in Rural Areas**"

Staff Achievements

- 12 **Mr.K.Swaminathan**, Assistant Professor, Department of Computer Science and Engineering Published an Indian Patent on 24/01/2024 in the title called "**MACHINE LEARNING-POWERED PREDICTIVE ANALYTICS SYSTEM FOR EARLY DETECTION OF PARKINSON'S DISEASE USING VOICE ANALYSIS AND IOT SENSORS**"
- 13 **Mr. DURAIRAJI V**, Assistant Professor, from the Department of Artificial Intelligence and Data Science, St. Joseph's College of Engineering has successfully completed **workshop on UNLEASHING INNOVATION: THE GENERATIVE AI REVOLUTION**.
- 14 **Ms. Siva Shankari B**, Assistant Professor, from the Department of Artificial Intelligence and Data Science, St.Joseph's College of Engineering has successfully participated and completed the Five day **Faculty Development Program** on "**AI - Powered Cybersecurity**" jointly organized by Department of Computer Science and Engineering & Department of Information Science and Technology, Anna University, Chennai.
- 15 **Dr. Ramya R, Associate Professor, Mr. DURAIRAJI V, Assistant Professor, Mr. Senthil Kumar D, Assistant Professor, Mr. Sathishkumar R, Assistant Professor, Ms Deepa D, Assistant Professor, Ms Jayasri R, Assistant Professor** from the Department of Artificial Intelligence and Data Science, St.Joseph's College of Engineering have successfully participated & completed AICTE Training And Learning (ATAL) Academy **Faculty Development Program on Industry 4.0 - Smart Manufacturing and Sustainable Development** at SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY.

Staff Achievements

16 **Dr. L. Balamurugan**, Head of the Department, Department of Mechanical Engineering, has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on **Industry 4.0 -Smart Manufacturing and Sustainable Development** at SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY from 06/01/2025 to 11/01/2025.

17 **Dr. K. Arun**, Associate Professor, Department of Mechanical Engineering, Published a Patent Titled "**Heated Chamber System for Charge Values in Internal Combustion (IC) Engines and Performance Analysis**" Application No.: 202441101697 A

14 **Ms. Siva Shankari B**, Assistant Professor, from the Department of Artificial Intelligence and Data Science, St. Joseph's College of Engineering has successfully participated and completed the Five day **Faculty Development Program** on "**AI - Powered Cybersecurity**" jointly organized by Department of Computer Science and Engineering & Department of Information Science and Technology, Anna University, Chennai.



Dr.G.Baskar from Department of Biotechnology has Invited as resource person in BRSI- Karpaga vinayaga Unit Inaguration ceremony in Karpaga Vinayaga College of Engineering and Technology, Madhuranthagam On 25/01/2025.



Dr. Lekshmi R. S. has successfully produced her first **Ph.D.** scholar, **Dr. Madhumita Theagarajan**, on 20th January 2025. **Dr. K. S. Chandrasekar**, Vice Chancellor of Cluster University, Jammu, and **Dr. R. Arasu**, Professor at the University of Madras, are the examiners for the viva voce. After the viva, they visited the Department of Management Studies at St. Joseph's College of Engineering and shared their valuable insights and academic expertise. of Engineering and Technology, Madhuranthagam On 25/01/2025.

STUDENT ACHIEVEMENTS

ENTREPRENEURSHIP DEVELOPMENT CELL, IIT DELHI



IIT Campus, Hauz Khas New Delhi, Delhi 110016
E-mail: cap.iitd@gmail.com

Campus Ambassador Program Offer Letter 2024-25

Dear Akshitha Gandhi Sankaranarayanan,
On behalf of the Entrepreneurship Development Cell(eDC), IIT Delhi, we are pleased to offer you the position of Campus Ambassador and extend a cordial welcome to you as a team member. CA Program is an indispensable part of the organization and is accountable for the club's outreach. eDC, as an organization, will invest time and effort into ensuring that we can add value to you and your profile by providing you with an environment in which you can learn, progress up the organizational chain, be a part of a team and most importantly, have fun.

We are certain that your impressive set of academic and extracurricular credentials will add great value to the organization. eDC IIT Delhi looks forward to welcoming you to a warm and friendly environment. Please find relevant details below.

1. **Date of commencement:** 1st Jan 2025
2. **Duration:** 1 Months
3. **Stipend:** N/A
4. **Benefits:** LOR, Certificate, Internship Opportunities, Passes to various events
5. **NoC:** Not Required

Please note that the position is work-from-home. Official eDC IIT Delhi Campus Ambassador Certificate will be provided to the CAs based on your performance. Welcome to eDC! The team looks forward to working with you.
Thanks and Regards,

Om Patil, Overall Coordinator
Entrepreneurship Development Cell (eDC)
IIT Delhi



Akshitha Gandhi Sankaranarayanan, student from batch (2023-2027) , Department of computer science and engineering, Selected as Campus Ambassador at the Entrepreneurship Development Cell(eDC), IIT Delhi