

# Excelsior

St. JOSEPH'S COLLEGE OF ENGINEERING - WEEKLY NEWSLETTER



FROM  
**DESKS**  
TO  
**DREAMS**

DESIGNING SPACES  
**IGNITING MINDS**

# 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**.



# INDUSTRY INTERACTION

On July 31, 2024 Faculties from Electronics and Communication Engineering Department visited IITM Pravartak Technologies Foundation, Detailed discussions with Mr. R Vijayaraja, Project Scientist, have laid the groundwork for potential partnerships and

revealed promising collaboration opportunities in areas such as MoUs, sponsored events, joint projects, industry visits, internships, centers of excellence, and startup guidance with IITM Pravartak.



On July 31, 2024, Faculties of Electronics and communication Engineering department have visited Siliconz Embedded in Chennai, a company specializing in industrial and medical product design, hardware, and PCB

layout for automotive and IoT systems. Discussions with Mr. Balamurugan S and Mr. Kannan S centered on potential collaborations including an incubation center, MoU, paid internships, and core placement assistance. Siliconz expressed interest in an industry-need training program for our third-year students, followed by paid internships and potential job placements.



# OPTICA STUDENT CHAPTER

The OPTICA Student Chapter of Department of ECE successfully conducted an outreach program on July 31st, showcasing 18 engineering projects to over 400 students at Sri Ramakrishna Matriculation Higher Secondary School. The hands-on demonstrations sparked student interest in engineering and garnered positive feedback. The chapter expresses gratitude to the school and its members for the event's success.

# EEE MOU'S

Signed MOU between Bluebinaries and St. Joseph's College of Engineering on 02/08/2024



4. 50 Year 7/8th  
5. Branch Types  
6. Kase Haina  
7. Computer Cables  
8. Monitor for All Halls  
9. Faculty Home back hall



**Two Days National Level Faculty Workshop organised by  
Department of Electrical and Electronics Engineering  
on  
Artificial Intelligence Based Design and Testing of Electric  
Vehicle  
Dates: August 2nd & 3rd, 202**





**Engineering Excellence**  
**EXPERTISE**  
**SHARING**  
FOR THE  
**STUDENTS** OF  
**XI & XII**





# EEE MOCK INTERVIEW

for  
pre-final  
year students



on  
**03/08/2024**





Department of Computer Science and Engineering organized Mock Interview for the students from batch 2020-2024 on 2nd August from 8.00 am to 3.00 pm. This program enrich the students to crack in their upcoming Placement, where students participated with all enthusiasm and cherished their experience.



## GUEST LECTURE

AML Department has hosted an enlightening "GUEST LECTURE" on JULY 31, 2024, featuring Mr. ENEEYAN, a Senior Data Analyst at Freshworks. The aptitude training conducted by Mr. Eneeyan has been truly transformative, providing students with essential skills and insights that will greatly enhance their ability to succeed in placement opportunities.



# GUEST LECTURE



The Department of MBA hosted a guest lecture on July 29th featuring Professor Narenn Uppala, Founder of Power My English Global, CEO of Narenn Edutech Consulting, and Director of Skillcity College. The integrated MBA students from the third, fourth, and fifth years actively participated in the session.

Professor Uppala imparted valuable knowledge on the intricacies of professional communication and etiquette. Through engaging discussions and interactive exercises, students gained a comprehensive understanding of the subject. This enriching experience equipped students with essential skills for their future professional endeavors. We express our sincere gratitude to Professor Uppala for sharing his expertise with our students.



Academic  
PartnershipAcademic  
Leadership  
Partnership

29 July 2024



# MASTER TRAINING PROGRAM

MongoDB, in collaboration with ICT Academy, honored St. Joseph's College of Engineering as a valued partner in their Academia Program following up the Master Training Program on MongoDB Developer Associate .

Over 240 IT students have completed the training, with others nearing completion. This recognition underscores the dedication to fostering advanced tech skills among its students.





Department of EEE and IEEE St. Joseph's College of Engineering Student Branch Chapter( IEEE SB 60101)hostedDr. Jeevan Perara, a NASA aerospace engineer. Dr. Perara provided an in-depth overview of the Space Shuttle Columbia accident, discussing the critical moments and the impact on space exploration protocols..



Department of EEE and IEEE Spectrum of St. Joseph's College of Engineering, conducted a Spectrum session. Mr. S. Senthamizhselvan spoke on "How Good is ChatGPT at Coding " on 31st July , 2024.

# STUDENT CHAPTER ACTIVITIES

The Department of ECE successfully conducted the elections for the office bearers of the IETE Students Forum on July 31, 2024, from 10:30 AM to 12 PM.

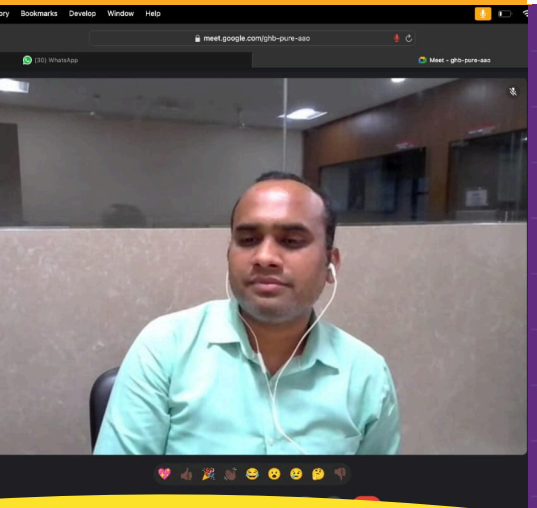
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
in association with



conducts  
**ELECTION OF OFFICE BEARERS FOR IETE STUDENTS FORUM**

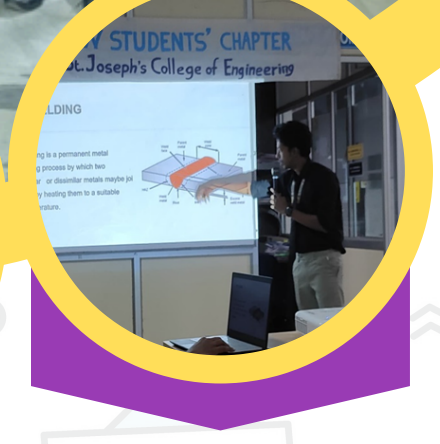
- CHAIRMAN
- VICE CHAIRMAN
- SECRETARY
- TREASURER

31.07.2024 10:30 AM TO 12:00 PM



On July 31, 2024, an enlightening online seminar titled "Recent Trends in Cyber Security" was conducted by Electronics and Communication department from 6:30 PM to 7:30 PM. The session was led by Mr. Sandeep Ushkeshwar, the Branch Counselor for IEEE at the SVKM's Institute of Technology in Dhule, Maharashtra.

On August 2, 2024, Department of Electronics and Communication Engineering, in collaboration with IEEE Communications Society and PEP Data Science & Analytics, organized an expert talk on "Future-Proofing Industry 4.0: ." Renowned expert Dr. Neena Susan Shaji, Professor at BITS Pilani, Dubai, delivered the talk on Industry 4.0 and shared her experiences.



Department of Mechanical Engineering, The Indian Institute of Welding (IIW) students chapter of st. Joseph's college of engineering organized an event "FUSION FEST" - a technical seminar presentation on [30.07.2024] under the guidance of Mr. P. Premkumar and Mr. A. Ruskin Bruce with the support of the IIW members and organizers. Teams have presented and shared their insights & knowledge in the selected topics. Members showed enthusiasm towards the presenters and ended up as an interacting session. Finally prizes were given to the top three performed teams by our mentors Mr. P. Premkumar and Mr. A. Ruskin Bruce in order to motivate them to achieve more, followed by a conclusion speech which concluded by appreciating the winners, encouraging the participants and explained the importance of IIW and discussed to conduct more events in the upcoming months.

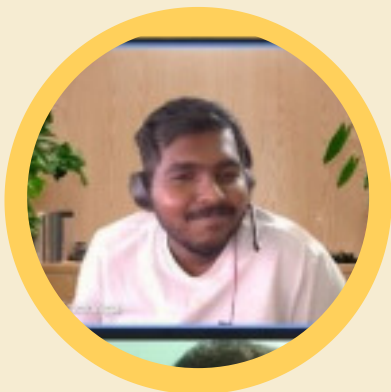
# Alumni Talk



On 2nd August 2024, Electronics and Communication Engineering Department esteemed alumnus Mr. Tharun Prasath J who was the recipient of our department Best Outgoing student Award for the batch 2019 - 2023 provided an insightful talk for our III-year students regarding project competitions and encouraged them to start building projects on their own for participating in various national and international level competitions.



on 03/08/2024, Department of Mechanical Engineering, Organized a online mock interview for Current third year students with guidance of our proud alumnus Mr. Thirumaniraj, Senior Software Engineer and trimble inc. The student had a clear vision on how to prepare resume and how studnets need to prepare themself for different domains.



On 01/08/2024, Department of Mechanical engineering, organized An online mock interview session for our third-year more than 8.5 CGPA students. The session was conducted by Mr. S. Joses Samuel Sasthrial, a Design Specialist at Boeing India in Chennai and a distinguished alumnus from the 2015-2019 batch. Currently earning an impressive salary package of 11 LPA, Mr. Sasthrial provided invaluable insights and guidance. This session greatly benefited our high CGPA students, equipping them to secure high-paying positions in core technical companies.\*

Department of Computer Science and Engineering organized Alumni Talk on 2nd August 2024 for the batch 2020- 2024 . The Alumni interaction is made by "SIVERAAM T K" software engineering at JMAN .He shared his experience and guided the students to enhance their skills in upcoming technology and trends.





# Alumni Talk



In an insightful session aimed at preparing students for the crucial transition from pre-final year to their final year and beyond, M. Trisha from the 2020-2024 batch delivered an engaging alumni talk to the pre-final year students on July 30, 2024. M. Trisha, who has recently completed her degree in Chemical Engineering Department, shared her experiences and offered valuable advice on making the most of the pre-final year. Her talk emphasized the importance of strategic planning, skill development, and proactive engagement in academic and extracurricular activities.

AML Department has hosted an enlightening "ALUMNI" talk on AUGUST 4, 2024, featuring Ms. Mr. Kevin Harris, a Microsoft 365 Developer at Avasoft.



AML Department has hosted an enlightening "ALUMNI" talk on AUGUST 4, 2024, featuring Ms. U. Janani a Data Analyst at Latentview Analytics.



Department of Electronics & Instrumentation Engineering arranged Alumni Talk on Professional Branding by Ms. NIVEDITA DEVRAJ, Technical Leader, Cognizant, batch of 2009-2013. The topic of the talk is "Professional Branding" on 1st August, 2024. Professional branding refers to the unique image, reputation, and values that you establish and maintain as a professional were discussed.



Chemical Engineering students from IV Year had visit to Mahimai Illam in Chengalpattu on August 2, 2024. This visit was part of their ongoing commitment to community service and social impact. Many expressed their appreciation for the opportunity to contribute to Mahimai Illam's mission and highlighted how the experience had broadened their perspective on social issues.

# Staff Achievements

## PUBLICATION:

2

A.M. Balamurugan" Machine learning-Based Energy Efficient and Enhancing Communication Reliability for MANETs of Balanced Less Loss Routing Protocol", Journal of Electrical systems, 20-2s(2024):777-783

2

Dr. M SHUNMUGASUNDARAM has published a paper on "A study on impact of Green human resource management practice on its sector - Chennai", in ALP conference proceeding 2965, 060010-1-060010-6; <https://doi.org/10.1063/5.0212056>

3

Dr.S Vinayagapriya has published a Patent titled "Vehicle Safety System using Ultrasonic Sensor".

4

Dr. B Victoria Jancee has published a Patent titled "Internet of things based Smart Traffic signal monitoring and controlling system for city".

5

Dr. P. Saravanan from the Department of Chemistry has recently published an article on 'Synthesis, Studies of Inorganic Class of Mohrite (MOH) Crystals for Electrical, Electronic, Photonic, Phase Matching, and Sensor Utilities by Theory and Practice'. ECS Journal of Solid State Science and Technology. Published 29 July 2024.

6

Dr. K Jayamoorthy from the Department of Chemistry has recently published an article on "Green Synthesis of Copper Nanoparticles Using Flower Extracts: A Promising Route for Enhanced Microelectronics Packaging." Journal of Molecular and Engineering Materials (2024).

7

Dr. N. R. Rajagopalan from the Department of Chemistry has recently published an article on "Evaluation of the optical, photoluminescence, and thermal characteristics of Barium Thiourea Chloride (BTCL), a metal-organic crystal for photonic applications." Journal of Nonlinear Optical Physics & Materials (2024).

# Staff Achievements

## PUBLICATION:

8

Dr. V. SWARNALATHA from the Department of Chemistry has published a paper on "Growth, investigation of calcium D-gluconate monohydrate-CDG crystals with shocked impact for electronic usage and the pure crystal for sensor application." *Journal of Materials Science: Materials in Electronics* 35, no. 12 (2024): page 1-16.

9

Dr. N. R. Rajagopalan from the Department of Chemistry has recently published an article on "Evaluation of the optical, photoluminescence, and thermal characteristics of Barium Thiourea Chloride (BTCL), a metal-organic crystal for photonic applications." *Journal of Nonlinear Optical Physics & Materials* (2024).



We proudly present "Dr.A.Chandrasekar" Dean Research of st.josephs group of institution, Professor at Department of computer science and engineering, under his immense guidance and support, "36th scholar" Ms.Anitha.S has successfully completed her PhD viva voice on 15.07.2024 at Anna University, Chennai.

## PATENT:

1

Dr. S. Justin Packia Jacob from Department of Biotechnology has granted a patent for an invention entitled "Composition containing an extract of clitoria ternatea L. for the improvement of behaviour and cognitive disabilities of autism spectrum disorders".

2

Dr. N. R. Rajagopalan from the Department of Chemistry has recently published two patents on 1."Advanced electrodeposition method for the controlled growth of ZnO nanorods and ZnO/CuO hybrid nanostructures. 2. Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>-pma-cu nanoparticles: a green catalyst for triazole synthesis

# Staff Achievements

## PATENT:

3

Dr. George Sahaya Nixon, Associate Professor, Department of Mechanical Engineering published a patent titled " An experimental investigation on influence of filler material on damping properties of hybrid composites" Application no: 202441055601.

4

Dr. Ramachandra Reddy has published a Patent titled "CHRONO-SEMANTIC WEAVING A SYSTEM FOR DYNAMIC NARRATIVE GENERATION WITH SELF-ADJUSTING TIMELINES".

5

Dr.S Vinayagapriya has published a Patent titled "Vehicle Safety System using Ultrasonic Sensor".

6

Dr. B Victoria Jancee has published a Patent titled "Internet of things based Smart Traffic signal monitoring and controlling system for city".

7

Mr. J. Vijayanand, Assistant Professor, Department of Mechanical Engineering published a patent titled "Experimental and Analytical Investigation on Friction welding dissimilar joints for aerospace application" Application no: 202441056437

8

Mrs.R.Ruthra published a patent titled as "Advanced synthesis and applications of Silver Enhanced Bismuth Ferrite ( BIFE03) Nano particles " on 02.08.2024.

9

Mrs . S.Banupriya published a patent titled as " Machine Learning - Based Prediction of Student Satisfaction with ICT in Educational Institutions

10

Mr. Sathishkumar R, Assistant Professor from the Department of Artificial Intelligence and Data Science has successfully published an Pattern "MACHINE LEARNING-DRIVEN KIDNEY STONE DETECTION AND PREDICTION USING ULTRASONOGRAPHIC IMAGE PROCESSING" .Publication Date: 02/08/2024.

# Staff Achievements

## FDP and Other Achievements:

**1** Dr. J. MARTIN LEO MANICKAM has attended Faculty Development Programme titled " Effective AI tools for Enhancing Teaching, Learning and Research ", July 2024.

**2** Mrs.R.MADHUMITHA has attended Faculty Development Programme titled " Effective AI tools for Enhancing Teaching, Learning and Research ", July 2024.

**3** Mrs.M.Angelin Ponrani has attended Faculty Development Programme titled "OpenCV for Image and Video Processing Applications ", July 2024 .

**4** Mr. R. Elakkiyadasan, Assistant Professor, Department of Mechanical Engineering, Completed a Massive Open Online Course (MOOC) from ASPIRE-UNICEF on Leadership for planning and decision making with adolescents its a Course to strengthen leadership for adolescents participation in institution.



## Student Achievement



**Ms Snekha S, Final Year Student from the Department of Artificial Intelligence and Data Science, has been selected for an internship at TCARE (P) LTD, following her outstanding performance in the Technical written assessment and HR discussion conducted during the internship drive at St. Joseph's College of Engineering- OMR, Chennai.**

**Ms Jeevitha M, Final Year Student from the Department of Artificial Intelligence and Data Science, have successfully completed her certification in " Business Intelligence Using Power BI eLearning"**



**Mr Guruprasath M , Final Year Student from the Department of Artificial Intelligence and Data Science, has successfully completed all requirements and Criteria for "Certified Ethical Hacker", an certification through examination administered by EC-Council, valid through 24 July 2027.**