

# Excelsior

St. JOSEPH'S COLLEGE OF ENGINEERING - WEEKLY NEWSLETTER

## TOTAL PLACEMENT OFFERS 2024-25

# 742\*

as on 4-11-2024



FROM **BEST EDUCATION**  
 TO **BEST EMPLOYERS...**  
**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.



# Interaction with Freshers





## ***IEI - Student Chapter***

The Department of Mechanical Engineering inaugurated the Student Chapter of The Institution of Engineers India, under the Kancheepuram Local Centre (Chapter Code: 60119/SJCE/MC), at our campus on November 8, 2024. Chief Guest Dr. S. Karthikeyan, Ph.D., FIE, and Guest Speaker Mr. Venkatesh Babu C., Managing Director of RK Invent Weld Automation Pvt Ltd, inaugurated the Students Chapter and delivered an inaugural address, inspiring students to engage in the activities organized under the chapter. This ceremony was held in the presence of our esteemed Principal Dr. Vaddi Seshagiri Rao, M.E., Ph.D., FIE, Dr. N. Arunkumar, M.E., Ph.D., FIE (Dean of Industrial Collaborations & IQAC), and Dr. V. Vallinayagam, Ph.D. (Dean of Student Affairs). The event was led by Dr. L. Balamurugan (Head of Department, Mechanical Engineering). The IE(I) student chapter is coordinated by Dr. R. Sathish, M.E., Ph.D., and Mr. K. Pravinkumar, M.E., (Ph.D.,).





## ***National Students Data Corps (NSDC) chapter***

On November 6, 2024, Department of Artificial Intelligence and Data Science has successfully, inaugurated its National Students Data Corps (NSDC) chapter at the Library AV Hall, St. Joseph's College of Engineering (SJCE). This initiative aims to empower students with data science skills and foster collaborative learning. Key speakers included Data Scientist Subramani Arumugam and Mohammad Azarudeen Z Microsoft MVP AI.



# 5G Consultant



Mr. M. Lingeswaran, Assistant Professor, ECE served as a 5G Consultant to DADB-German Academy of Digital Education for the Andhra Pradesh State Skill Development Corporation (APSSDC) sponsored “5G Communication Technology” Frameworks for 5G Test Bed Deployment” at Andhra Pradesh (Vijayawada, Visakhapatnam, Atmakur)



# SHORT TERM TRAINING PROGRAM

The Department of Science has organized a one-week Short Term Training Programme (STTP) titled "Hands-On AI Tools for Academic Writing: Enhance Your Research and Publishing Impact," which is set to take place from October 21 to October 26, 2024.

	<b>Dr. Shilpi Saha</b> Academics & Research Coordinator, MSN Institute of Management, Mangaluru, Karnataka, India.	PhD - NITK Surathkal MBA - IIT Alibabud
Title: Introduction to AI in Research Writing Day 2 – 22.10.2024		
	<b>Dr. Yeswanth Paulri</b> Associate Professor, Department of Civil Engineering, Vishnu Institute of Technology, Bhimavaram, India.	PhD - NIT Warangal M.Tech - NIT Warangal
Title: Enhancing Writing Quality with AI & Drafting and Editing with AI Day 3 – 23.10.2024		
	<b>Dr. Sweeti Sah</b> Assistant Professor, Department of Computer Engineering, NIT Kurukshetra, Haryana, India	PhD - NIT Puducherry
Title: Integrating AI into Your Research Workflow Day 4 – 24.10.2024		
	<b>Dr. Shweta Sharma</b> Assistant Professor Department of Computer Engineering, NIT Kurukshetra, Haryana, India	PhD - NITRR Chandigarh
Title: AI for Citation and Plagiarism Management Day 5 – 25.10.2024		
	<b>Dr. Monica Bhutani</b> Associate Professor, Department of Electronics and Communication Engineering, Bharati Vidyapeeth College of Engineering, New Delhi, India	PhD - IIT Delhi

## Nasscomm Conference

Dr. Sumathi, Professor in the Department of Information Technology, participated in the Nasscom Technology Confluence 2024 at ITC Chola, Chennai. The event focused on advancements in technology and innovation, providing a platform for industry leaders and academia to discuss emerging trends. It paved way to gain insights into the latest technological developments and explored potential applications within the IT sector.



# Alumni Talk



On 07.11.2024, Ayanatreesa Raj S., a distinguished alumna from the 2019-2023 batch of Chemical Engineering, delivered an inspiring talk at St. Joseph's College of Engineering. She reflected on her college days, praising the department's supportive environment, experienced faculty, and advanced laboratories. Ayanatreesa highlighted how active participation in academics and extracurricular activities helped shape her skills and character, preparing her for the challenges of the professional world. She provided valuable insights into the diverse career opportunities

for Chemical Engineering graduates, emphasizing the importance of networking, continuous learning, and staying updated with industry trends. Her personal anecdotes and practical advice resonated with students, motivating them to pursue their dreams with determination and passion.



## Mr. M S KUMARAN

(Batch : 2017- 2021)  
ADVANCED ENERGY,  
INC HARDWARE ENGINEER II,  
COLORADO, USA



On 08/11/2024 Mr. KUMARAN interacted with the III & IV year EEE Students who have shown interest in higher Studies. He spoke about "OPPORTUNITIES THROUGH CAT".

# Staff Achievements

1

Ms. V. Sathya , Assistant Professor from the Department of Artificial Intelligence and Data Science has successfully published a paper titled "IoT enabled smart healthcare system for COVID-19 classification using optimized robust spatiotemporal graph convolutional networks" in Q1 Journal with an impact factor of 4.9.

2

The Department of ECE is happy to announce the outstanding achievements of our esteemed faculty Dr. J. Martin Leo Manickam and Mrs. S. Devipriya have demonstrated exceptional knowledge and skills in the Principles of Modern CDMA/MIMO/OFDM wireless communication course, achieving the ELITE GOLD position.

3

The Department of ECE is happy to announce the outstanding achievements of our esteemed faculty Dr. P. Ezhilarasi and Dr. S. Rajeshkannan have both excelled in the Basics of Software Defined Radios and Practical Applications course, earning the ELITE SILVER position.

4

The Department of ECE is happy to announce the outstanding achievements of our esteemed faculty Dr.P.Latha has successfully completed NPTEL Course on Digital VLSI Testing securing ELITE Position

5

The Department of ECE is happy to announce the outstanding achievements of our esteemed faculty Mrs. E. Malarvizhi has successfully completed the Microelectronics: Devices to Circuits course, securing the ELITE position.

6

The Department of ECE is happy to announce the outstanding achievements of our esteemed faculty Dr. P. Ezhilarasi Published a Patent titled " VIRTUAL REALITY TRAINING ENVIRONMENT FOR CORPORATE SKILL DEVELOPMENT AND MANAGEMENT ".

7

Mr. M. Lingeswaran, Assistant Professor, ECE has received Certificate of participation from IEEE Advancing Technology for Humanity for participating in IEEE Horizons: Exploring 5G/6G innovations.

# Staff Achievements

8

Mr. M. Lingeswaran ECE department Faculty has successfully completed the 5G Fundamentals with MATLAB course offered by MATHWORKS Training Services.

9

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>

10

Dr. P Saravanan from the Department of Chemistry has authored a research article titled "Sequential Detection of Hg<sup>2+</sup> and TNT Using a Nitrogen-Doped Polymeric Carbon Dots On-Off-On Fluorescence Sensor," which has been published in the journal Polymers for Advanced Technologies (WILEY). The article can be accessed at <https://doi.org/10.1002/pat.6608>.

11

Dr. S M Prakash, Dr. K. Jayamoorthy, Dr. G. Sasikumar from the Department of Chemistry has published a research article titled "Microwave assisted synthesis, spectral characterization of novel [N-methyl-3t-alkyl-2r,6c-diarylpiperidin-4-ylidene]-5',5' dimethylthiazolidine-4-ones for antimicrobial and antimycobacterial activities: Docking investigation." This work appears in the Journal of Molecular Structure, which is indexed in Web of Science, and can be accessed at <https://doi.org/10.1016/j.molstruc.2024.140464>.

12

Dr. K. Dhanraj from the Department of Physics has authored a research article entitled "Antibacterial and Cell-Viability of Hydroxyapatite Derived from Waste Marine Shell for Biomedical Applications." This study has been published in the Asian Journal of Chemistry, which is indexed in Scopus, and is available at <https://doi.org/10.14233/ajchem.2024.32287>.

13

Dr. V Swarnalatha of the Department of Chemistry has successfully published a research patent entitled "Functional Nanochannels Incorporating Bismuth Ferrite Nanoparticles for Improved Performance in Nanoelectronic Devices."

14

Dr. Uma Devi A from the Department of Chemistry has secured a patent for her work titled "Anti-Counterfeiting Solution for Product Authentication Using Blockchain in the Field of Computer Science,"

# Staff Achievements

**15** Ms. S Savitha from the Department of Chemistry has successfully published two patents entitled "Efficient NiO-Based Nanostructures for Solar-Driven Water Splitting and Pollutant Degradation" and "Comprehensive Evaluation and Optimization of Copper Oxide Nanoparticles for Diverse Applications."

**16** Dr. S M Prakash from the Department of Chemistry has successfully published a research patent entitled "Real-time battery discharge prediction for Electric Vehicles using Machine Learning algorithms."

**17** Dr. P. Saravanan from the Department of Chemistry has authored a book chapter entitled "Integrating Global Practitioner Research Methodologies in the NBA: Enhancing Performance and Innovations," which appears as Chapter 15 in a publication by IGI Global. The DOI for this work is 10.4018/979-8-3693-3587-1.ch015.

**18** Dr. J. Sharmila from the Department of Chemistry has authored a book chapter entitled "Adaptive Strategies in Online Marketing Using Machine Learning Techniques," which appears as Chapter 04 in a publication by IGI Global. The DOI for this work is 10.4018/979-8-3693-4466-8 ch004

**19** Dr. G. Murugan from the Department of Chemistry has authored a book chapter entitled "Emerging Startups in the Evolving Industry Landscape by Empowering Entrepreneur Growth: An Agile Marketing Practice." This chapter is featured as Chapter 17 in a publication by IGI GLOBAL, with the DOI: 10.4018/979-8-3693-4466-8/ch017.

**20** Dr. S. Kiruba from the Department of Chemistry has authored a book chapter entitled "Integrating AI and Machine Learning in Omnichannel Marketing for Superior Customer Experience." This chapter is featured in Chapter 05 and has been published by IGI Global, with the DOI: 10.4018/979-8-3693-4466-8/ch05.

**21** Dr. N R Rajagopalan from the Department of Chemistry has authored a book chapter entitled "Enhancing food quality monitoring process through innovative micro-controller based systems." This chapter is featured as Chapter 3 in a publication by IGI GLOBAL, with the DOI: 10.4018/979-8-3693-5573-2.ch003

# Staff Achievements

**22** Ms Sudha from Department of computer science and engineering has published Indian patent on 09.11.24 in the title called Application of Machine learning in smart grid

**23** Dr Hemalatha.R from Department of computer science and engineering has published Indian patent on 1/11/2024 in the title called Novel method for Identifying Hidden pattern in large datasets using deep learning algorithm.

**24** Ms Reeba Rose L from Department of computer science and engineering has published Indian Patent on 08/8/24 in the title called waterwave optimisation algorithm based deep learning model for detection and classification of skin cancer

**25** Dr E Ahila Devi from the Department of computer science and engineering has published Indian Patent on 25/10/24 in the title called ' A machine learning driven wearable sensor monitoring and classification based personalized health care system

**26** Ms Jayabharathi P from Department of computer science and engineering has published Indian patent on 1/11/24 in the title called 'Cyber Security with Cloud Based Automated Payroll With GPS Tracking System Using Image Processing Technique'

**27** R. Elanthirayan, Assistant Professor, Department of Electrical and Electronics Engineering has published Paper on the title "Economic analysis and effective energy management of fuel cell and battery integrated electric vehicle" in Journal of Energy Storage.

**28** Dr.T.Babu, Professor, Department of Electrical and Electronics Engineering has published Patent on the title "The investigation focuses on the financial applications of stochastic dynamic systems, as well as their supply chain stability".

# Staff Achievements

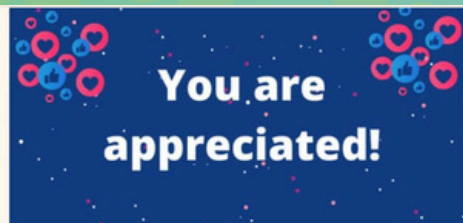
**29** Dr.C.Venkatesh kumar,Assistant Professor, Department of Electrical and Electronics Engineering has published Patent on the title "IoT-Based smart irrigation using Machine Learning for efficient water usage in agriculture".

**30** Mr.S.S.Harish, Assistant Professor, Department of Electrical and Electronics Engineering has published Patent on the title "Machine Learning-Driven Adaptive Energy Management For Solar lot Nodes Using Evolutionary Fuzzy Rules"



From the Department of computer science and engineering, "Dr.Vinu" has been addressed as "Resource Person" to "Sathyabama Institute of Science and Technology" on the Topic " XR Technologies for bowndaryless World"

From Department of computer science and engineering, proudly present, Dr Chandrasekar.A , Professor and Dean Research of st.josephs group of institution, has been selected as one among five research heros. Five research heroes will be selected by our judging panel based on the information provided in the nomination form. Each one will receive a cash prize of USD 2,000 and be recognized in our Wiley Wall of Research Heroes.



Chandrasekar,

You've been nominated for a [research hero prize!](#)

These prizes recognize people who are making research more inclusive and innovative.

What you do has meant so much to colleagues they've taken the time to tell us how wonderful you are and how much they value you.

Our judges are busy reviewing all the nominations and the winners will be contacted in November.

# Student Achievements



Mr.Dinesh Aravind and Mr.Sanjay of IV year Chemical has published a research paper, "Recent progress in ceramic membrane technology for the removal of emerging contaminants from wastewater: a critical review," has been published in Chemical Engineering Communications a Q2 Journal with 1.9 Impact Factor



The Chemical Engineering Department at St. Joseph's College of Engineering is proud to announce the outstanding results of its students in the recent NPTEL exams. A total of 17 students successfully cleared the course, with five of them achieving the prestigious Elite grade. This remarkable achievement is a testament to the students' dedication, hard work, and the department's commitment to academic excellence. The faculty and staff extend their heartfelt congratulations to all the students for their exemplary performance and wish them continued success in their future endeavors.

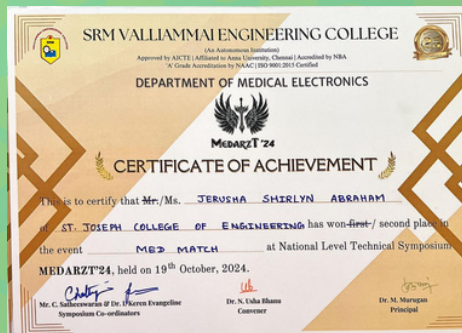
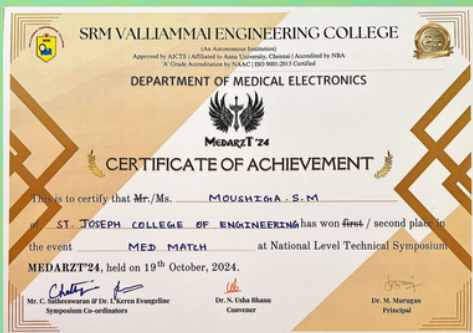


# Student Achievements



III year Biotechnology students Subashini S and Srimathi P has participated and won first prize in the 2nd international Conference on sustainable technologies in health and environment conducted by Udaya school of Engineering.

II year biotechnology students Kavindra L, Moushiga S M and Jerusha shirlyn abraham has participated and won second price in the National level technical symposium organized by SRM valliammai engineering college.



B Rajapriyadharshini , V Renisha , S Shivani S Bharath Kumar of 3rd year ECE Students have received Best ISVE Hacathon Award Certificate for the paper “ Analog/Full Custom IC Design of wilson Current mirror” in the 1st ISVE Hackathon(IH-2024) Organised by ISCE at Advance Regional Telecom Training Centre, BSNL, Ranchi, Jharkhand

"From Best Education to Best Employers"

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DEPT OF MECH



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DEPT OF EEE

PLACEMENTS

PLACEMENTS

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"Setting the stage for corporate success"

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# zepto



**Mr. GOKUL R**



**Mr. GOKUL RAJ B**



**Mr. DHANANANTH R**



**Mr. NAVEEN IYAPPAN**



**Mr. SARAVANAN R**

**DEPARTMENT OF MBA**

CTC  
**Rs.4.5** LAKH  
PER ANNUM

"Setting the stage for corporate success"

# PLACEMENTS

BATCH **2021-25**

# zepto



**HARIHARAN B**  
DEPT OF MECH



**SANJAI SRIRAM K**  
DEPT OF MECH

"Turning potentials into professions"

# PLACEMENTS

**2024-25**

# BRUHAT



**Mr. MATHAVAN P**  
(INTEGRATED)



**Ms. MALLIKA S**

**DEPARTMENT OF MBA**

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PLACEMENTS

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infoTrends

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**AMRITHA K G**  
DEPT OF CSE



**RICHARD ANDREW V**  
DEPT OF CSE



**RISHIKA J**  
DEPT OF CSE



**ATCHAYA S**  
DEPT OF ADS



**KASEY ANN**  
DEPT OF ADS



**NIVETHITHA**  
DEPT OF ADS



**ATHIRA A**  
DEPT OF IT



**ANU VARSHINI S**  
DEPT OF CSE



**KIRTHIDEVI S**  
DEPT OF CSE



**NANDHANA V**  
DEPT OF CSE



**ZAIBA T**  
DEPT OF CSE



**JENITHA JESHRUN D**  
DEPT OF IT



**NALLAGUNDLA S**  
DEPT OF IT



**NISHANTHINI A**  
DEPT OF IT



**PRANAVI K**  
DEPT OF IT



**SANJITH K**  
DEPT OF ADS

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DEPT OF EEE



**AMIRDHAVARSHINI U**  
DEPT OF MECH



**HARINI JV**  
DEPT OF MECH



**SOWMIYA V**  
DEPT OF MECH



**SANJAY R**  
DEPT OF MECH

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SPORTS

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of success

9<sup>th</sup>  
NOVEMBER  
2024



PEARL JUBILEE

30<sup>th</sup>  
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