

# Excelsior

St. JOSEPH'S COLLEGE OF ENGINEERING - WEEKLY NEWSLETTER

EMPOWERING  
EDUCATION

PAVING PATHS TO  
PROFESSIONAL GREATNESS



**accenture**

# 170 STUDENTS

## 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**.





# Ayudha Pooja

## CELEBRATIONS

on 10<sup>th</sup> October 2024, Thursday



# Navarathiri Gollu CELEBRATIONS



## 5G Technology - Technical Session



Technical Session was hosted by ECE department to 5G students session handled by Mr.Veera and Poonam from Nokia. The workshop provided an overview of 5G and Multi-access Edge Computing (MEC) technologies. It discussed the shift from monolithic implementations to virtualized systems, highlighting the role of hypervisors and virtualization in optimizing resource utilization. The workshop also explored the benefits of MEC in reducing latency for real-time applications.



# STUDENT CHAPTER ACTIVITIES



Department of EEE in association with the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) successfully hosted the Cover to Cover (IEEE Spectrum Reading) event on 12th October 2024 On IEEE Day 2024. The event featured an engaging talk by Arjun P, a second-year EEE student, on the topic "The Incredible Story Behind the First Transistor Radio."

Arjun delved into the fascinating history of how the first transistor radio revolutionized the electronics industry. He explained the pivotal role that this invention played in shaping modern communication, highlighting key breakthroughs and the contributions of notable engineers.



Department of EEE in association with the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) successfully hosted the Cover to Cover (IEEE Spectrum Reading) event on 05th October 2024 On IEEE Day 2024. The event featured a detailed discussion on the topic "India Backs Small Nuclear Reactors to Power Heavy Industry," presented by Ashwini D, a second-year EEE student.

The session explored the growing potential of small nuclear reactors in India's energy landscape, with a focus on their application in powering heavy industry. Ashwini provided in-depth insights into how this technology can promote energy efficiency and sustainability, sparking engaging discussions among attendees about the future of nuclear energy in industrial applications.



On 12th October 2024, Department of EEE in association with IEEE SJCE SB successfully conducted the Third session of the EXPERT TALKS ("Recreating Renaissance") series. The session featured Mr. Kathiravan M, AI/ML Lead at Zeb, Immediate Past Chairperson of IEEE SJCE PES, IEEE PES DAY Ambassador, IEEE YESIST12 Publicity Volunteer, provided valuable perspectives on Electrical and Electronics Engineering and the broader IEEE society. The event facilitated meaningful interactions between the speaker and the participants, allowing for an exchange of knowledge and ideas.



# DRONE WORKSHOP



Department of Mechanical Engineering, Organized a Workshop on 09/10/2024 in the topic Drone Design, Development and Assembly in partnering with Deca Drives Pvt Ltd. This comprehensive program aimed to bridge the gap between theoretical knowledge and practical application, providing students with hands-on experience in drone technology. 50 Students from Second, third and Final year students got benefited using this program.



# TECH X SJCE'24

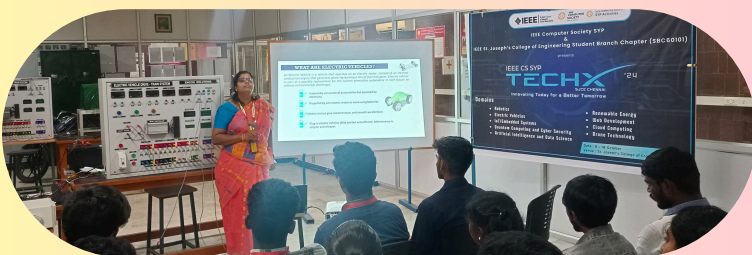


The program featured numerous expert-led seminars on practical tasks, lectures, professional networking opportunities, and mentorship sessions covering a variety of contemporary fields. During the three intense days, the participants received a comprehensive set of tools and fresh knowledge about emerging technologies, positioning them to be the forefront of technology for their future endeavors.

Robotics, Electric vehicles, IoT/Embedded Systems, quantum computing, cyber security, artificial intelligence

and many more advanced fields were among the themes covered in the sessions, which were organized into themed categories like Tech, Train, Lead, Engage, Unique, and Industry Elements.

Tech X SJCE'24 offered a transformative learning experience, equipping participants with cutting-edge skills and knowledge to stay at the forefront of technological innovations. The event combined theoretical insights, hands-on workshops, mentoring sessions, and networking opportunities, fostering a community of future tech leaders.



# Empowering Students



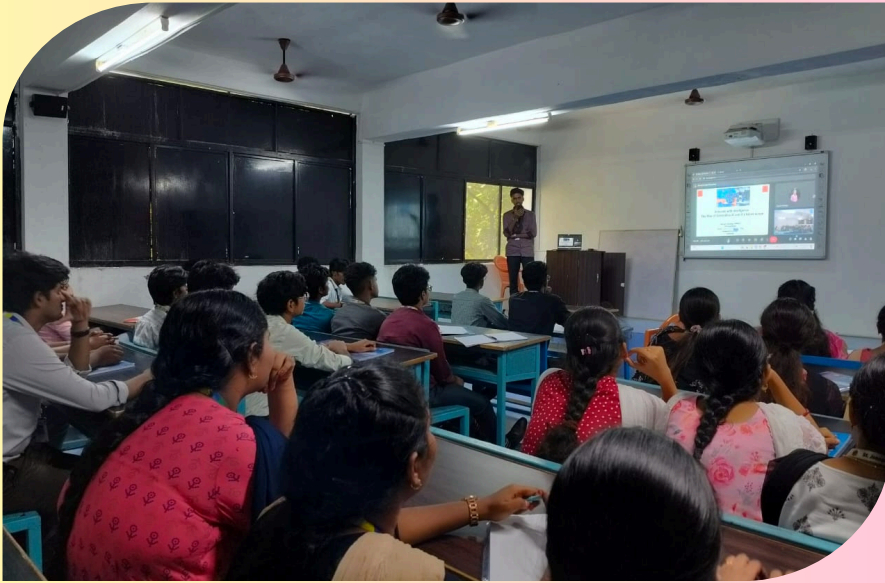
The "Azure Certified Students - Empowering Certified Students for Tomorrow's Careers" event celebrates the achievements of over 100 students from St. Joseph's Group of Institutions who have successfully earned Microsoft Azure certifications. The event aims to recognize their hard work, inspire more students to pursue cloud technologies, and emphasize the industry readiness these certifications bring. With insights from guest speakers Mr. Balaji Varadarajan and Mr. Mohamed Azarudeen Z, the event also acknowledges the crucial support from the Cloud Placement Empowerment Center, Microsoft Learn Student Community, and PEP 21 Domain in fostering students' growth and success in cloud computing and related fields.

# PLACEMENT TALK



**A Placement talk on “Continuous Learning Skill Development and Networking” was organised as a Placement Empowerment Program initiative on 5th October 2024. It was a privilege to have Mr. David Netto, Senior Talent Acquisition Business Partner at ADP as the Guest Speaker. He delivered a thought provoking session delving into the current trends and areas of popularity in Networking domain. Our students were immensely benefitted from the session.**

# Seminar



The seminar "Innovate with Intelligence: The Rise of Generative AI and its Future Scope" was hosted by the Department of Electronics & Communication Engineering, featured Samuel Tensinigh from the University of Sydney, who discussed the potential of generative AI, particularly in the context of VLSI and semiconductors.

# Workshop



A two-day workshop was conducted by ECE department on October 9th and 10th, 2024, to equip third and final-year students with essential career skills. Day one focused on resume building, where students learned how to craft professional resumes that stand out to potential employers.

Expert guidance from Mrs. Nithya Priya and Mr. Gokula Krishnan helped students understand key components of effective resumes, including structure, content, and formatting. On day two, a mock interview session provided students with a realistic experience of job interviews. Industry professionals conducted one-on-one interviews, offering valuable feedback on communication, problem-solving, and overall performance.

# ALUMNI TALK



Department of Computer Science and Engineering, has organised "Alumini Talk" which was handled by "Mr.Hemachandran S.N" from batch 2010-2014 , Founder and CEO of Aptitude Guru on topic "Seize the opportunity" for batch students (2023-2027). Students were actively participated and interacted with the founder to enrich their knowledge.

# MOU



On October 7, 2024, Mr. Vijay, Managing Director of Saroj Tiny Tech Pvt Ltd, Gujarat, visited the Department of Chemical Engineering at St. Joseph's College of Engineering to sign a Memorandum of Understanding (MOU). During his visit, he reviewed hackathon projects presented by students and was highly impressed by their innovative ideas. Mr. Vijay also delivered a motivational talk, highlighting industry opportunities for chemical engineers and conducted interviews for internship placements. His visit concluded with a commitment to promote the students' ideas and provide internship and placement opportunities, fostering industry-academia collaboration.

# Staff Achievements

1

**\*Ms M.R.Archana Jenis\*** from Department of computer science and engineering has published a paper titled **\*Optimizing Steganography Security through Artificial Intelligence and GANs,\*** has been officially published in the **\*\*International Journal of Science and Innovative Engineering & Technology (IJSIET)\*\***, September 2024 Issue (Volume 1, ISBN 978-81-965908-5-7).

2

**"A Nithya"** from Department of computer science and engineering has published a book chapter in the title **"Optimization for marketing success with AI - Driven theft prevention: The future of A/B testing"**

3

**Ms. M.R. Archana Jenis**, from the Department of Computer Science and Engineering, St. Joseph's College of Engineering, participated in the **\*one-week International Faculty Development Programme\*** on **"Cutting-Edge Technologies in Computer Science"** from **\*September 23, 2024, to September 29, 2024\***. The event was organized by the Department of Computer Science and Engineering at **\*\*Easwari Engineering College, Chennai**

4

**Mrs Kumari Deepika P**, Assistant Professor from the Department of Artificial Intelligence and Data Science has attended the **Six Days Faculty Development Program** on **"Next-Gen Educators: Harnessing the Power of Machine Learning"**, organized by the Department of Information Technology, Jeppiaar Institute of Technology, from **25/09/24 to 1/10/24**.

5

**Mrs. G. Anitha and Mrs. M. Angelin Ponrani** have achieved an **ELITE** position in the **NPTEL Python for Data Science** course

6

**Elaveni Palanivel, Shirley Selvan,"** **Unsupervised Multispectral Gaussian Mixture Model-Based Framework for Road Extraction"** **J Indian Soc Remote**

7

**S.Aghalya,"** **Cloud based prediction of epileptic seizures using real-time electroencephalograms analysis"** **International Journal of Electrical and Computer Engineering**, vol 14, no.5, pp. 6047-6056



# Staff Achievements

8

Dr. A. Jamna,P, Assistant Professor & Dr. Velmurugan, Associate Professor, Department of EEE have successfully published paper on the title "Optimal powerquality enhancementofphotovoltaic andplug-in electric vehicle for smart grid using HBA-GJO technique" in Springer -Electrical Engineering

9

R. Elanthirayan, Assistant Professor, Department of EEE have successfully published paper on the title " Economic analysis and effective energy management of fuel cell and battery integrated electric vehicle" in Journal of Energy Storage

10

Dr. Venmathi Mahendran Associate Professor, Department of EEE have successfully published paper on the title"Analysis of Torque Ripple Investigation on Three-Phase SR Motor Drive for EV Applications " in International Journal of Circuit Theory and Applications

11

S.P. Vedavalli and S. Gomathi, Assistant Professor, Department of EEE have successfully presented paper on the title"Design of High Efficiency Power Electric Converters for Fuel Cell System Applications" at International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering (ICSSECC)

12

S. Gomathi, Assistant Professor, Department of EEE have successfully presented paper on the title"Design of High Efficiency Power Electric Converters for Fuel Cell System Applications" at 7th International Conference on Circuit Power and Computing Technologies (ICCPCT)

6

Mr. G. Ashwin Prabhu & Mr. K. Gnanasekaran, Assistant Professor of Mechanical Department has completed one week Industrial Training on "Advancement on Electric Vehicle Technology" with Certification at TEEV Pvt Ltd.


7

Dr. G. Venkat Narayanan, Associate Professor, Department of Mathematics & English has published two research articles titled, "Fixed Point Results Under Hausdorff Distance in the Fractal Spaces" and "Numerous Determinants Identities Involving Jacobsthal and Jacobsthal Lucas Numbers" in Communications on Applied Nonlinear Analysis with Vol. 31 No. 1 (2024) and Vol. 31 No. 5s (2024).


# Staff Achievements

- Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Published an article titled "Advanced Robotics in Manufacturing: Engineering Innovations and Management Implications" in Scopus Indexed Journal "Nanotechnology Perceptions" Vol.20, S11 (2024) 633-646 (ISSN 1660-6795) on September 14, 2024.
- Mr. K. Muninathan, Assistant Professor from Department of Mechanical Engineering published an article Titled "Experimental and numerical analysis to enhance the thermodynamic properties and biofuel stability: Sapindus mukorossi. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects", 46(1), 13654-13666. <https://doi.org/10.1080/15567036.2024.2412196>
- Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Published a Text Book titled "Strength of Materials" in Alpha International Publication, ISBN 978-93-5762-775-7.


**Author's Profile**




Dr.K.R.Padmavathi serves as a Professor in the Mechanical Engineering Department at Penimalar Engineering College, Chennai. She completed her undergraduate studies in Mechanical Engineering at P.S.N.A. College of Engineering and Technology and further pursued an M.E. in Computer Integrated Manufacturing at the College of Engineering, Guindy, Anna University, where she graduated with both Distinction and a Gold Medal. Her Ph.D. in Metal Matrix Composites was awarded by Sathyabama Institute of Science and Technology. With a rich teaching background of 24 years, Dr. Padmavathi has authored 28 research papers and holds a patent. Her research interests encompass the fabrication, mechanical characterization and tribological studies of composite materials, modern manufacturing systems and finite element analysis.



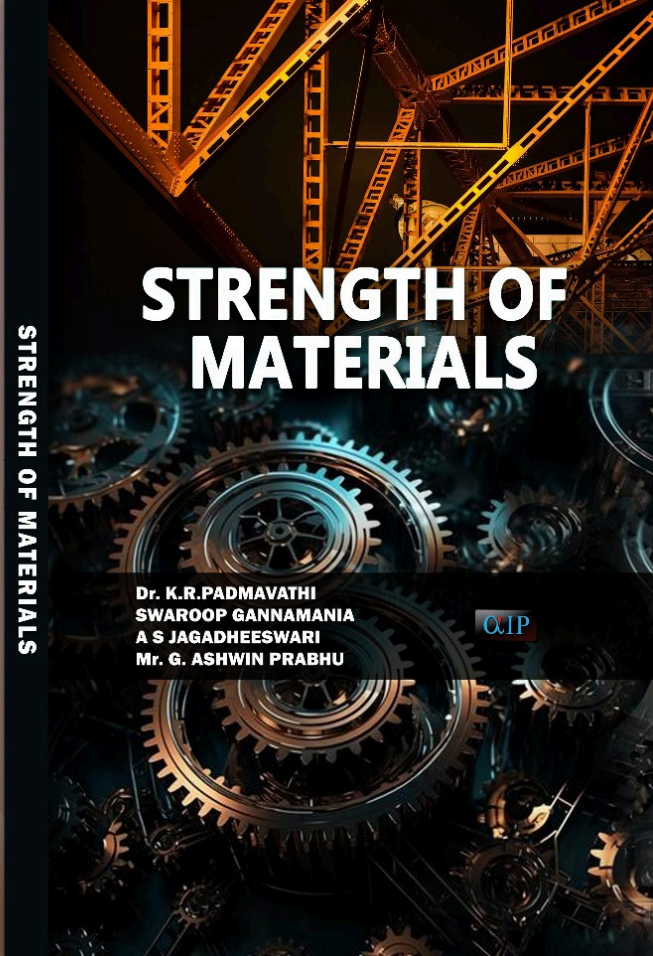
Mr. Swaroop Gannamani working as an Assistant Professor at Mangalore Institute of Technology & Engineering college in the Department of Mechanical Engineering. He has about 10 years of Professional experience. He received his B.E degree in Mechanical Engineering with distinction and M.E. degree in Engineering design with distinction from VTU,Belagavi, Karnataka. His major contributions are towards advanced product development in the area of Automobile domain. His areas of research include ADAS, Low weight polymer composite materials, additive manufacturing and surface engineering.



Mrs. A. S. Jagadheeswari is currently working as an Assistant Professor at Akshaya College of Engineering and Technology in the Department of Civil Engineering. She has about 6 years of teaching experience and 2.5 years in Industry. She received her B.E degree in Civil Engineering with distinction from Kongu Engineering College, Perundurai, Erode and M.Tech degree in Structural Engineering with First class from Karunya University, Coimbatore, Tamil Nadu. She had published Basics of Civil Engineering book. She has presented and published many National, International Papers, Journals and IEEE Papers. She has attended many National and State level Seminar,Workshop, Short-term course, Webinar associate with ISTE, Hands on Training and many FDP Programs. She is a life time member of ISTE. she has filed three patent and published. Her area of interest includes Polymer Composite Materials, Self-Healing Concrete, Geotechnical Engineering and Tall Buildings.



Mr. G. Ashwin Prabhu working as an Assistant Professor at St. Joseph's College of Engineering in the Department of Mechanical Engineering. He has about 10 years of teaching experience. He received his B.E degree in Mechanical Engineering with distinction and M.E. degree in Engineering design with distinction from Anna University Regional Campus, Madurai, Tamil Nadu. He has published 20 Indian Utility Patents & 15 research papers in Reputed Journals. His areas of research include Polymer Composite Materials, Machining Process, Friction Welding, Additive Manufacturing and Surface Engineering. He is currently pursuing Part-time Ph.D in Anna University, Chennai.



**STRENGTH OF MATERIALS**

Dr. K.R.PADMAVATHI  
SWAROOP GANNAMANIA  
A S JAGADHEESWARI  
Mr. G. ASHWIN PRABHU

Alpha International Publication

ISBN 978-93-5762-775-7

# Staff Achievements



Department of Computer Science and Engineering, proudly present "Dr. Chandrasekar A" , Dean Research at St. Josephs Group of Institution, has made milestone on Guiding his "39th Research Scholar " . Under his guidance, "Mr Muthazhagan" successfully completed his Ph.D. viva on 07.10.2024 , on thesis of "**Prediction of Lung Tumors from Lung CT Images Using Combination of an Enhanced Image Processing and Data Mining Techniques**"

# Staff Achievements



Dr. Lilly Raamesh  
Professor / AML

We are proud to announce that the Department of Electrical and Electronics Engineering (EEE) and Artificial Intelligence and Machine Learning (AML) has secured a grant of ₹20,000 for organizing a Two-Day Workshop on the Popularization of Science and Technology in Recent Trends and Application. This workshop is sponsored by the Tamil Nadu State Council for Science and Technology under the Popularization of Science Activities Scheme (2023-2024).



On October 14, 2024, a comprehensive study was conducted for Tamilnadu government project by MBA faculty and students - to evaluate the Special Incentive Scheme aimed at promoting literacy among Scheduled Caste girls in Standards III to V and VI to VIII. The project covered several blocks in Thanjavur, including Thanjavur Rural, Orthanadu, Papanasam, Thiruvaiyar, Ammapettai, and Vallam.

The data collection was carried out by a dedicated team composed of faculty members Dr. Menaga, Dr. Subalays, Dr. Balamurgan, and Dr. Rajesh, along with students Keerthana, Mathumitha, Pranthi, Attchaya, Thulasimani, Vardharaj, and Vasudevan from the 3rd and 4th Integrated MBA. Their collaborative efforts contributed to gaining valuable insights into the scheme's effectiveness in improving educational outcomes.



# Student Achievements

## NPTEL Certification

Mr. M. Ravikrishnan , III Year Mechanical Student Secured Elite Gold Certification and he is also recognized as Top 2% in Product Design and Development in NPTEL Sep 2024 Session.



Mr. A. Asher Fabio , III Year Mechanical Student Secured Elite Silver Certification in NPTEL Sep 2024 Session.

Mr. K. Kavikumar, IV Year Mechanical Student Secured Elite Silver Certification in NPTEL Sep 2024 Session.



MS. P. Prakriti Harith, IV Year Mechanical Student Secured Elite Silver Certification in NPTEL Sep 2024 Session.

Mr. S. Karthik Kumar, IV Year Mechanical Student Secured Elite Silver Certification in NPTEL Sep 2024 Session.



Mr. P.C. Jones Rojar, IV Year Mechanical Student Secured Elite Silver Certification in NPTEL Sep 2024 Session. U

Mr. K. Naveen, IV Year Mechanical Student Secured Elite Silver Certification in NPTEL Sep 2024 Session.





# Student Achievements

## NPTEL Certification

In September 2024 Session of NPTEL Swayam Examination, Third Year Mechanical students Secured 1 Elite Gold, 1 Elite Silver & Eight Elite Certification.

In September 2024 Session of NPTEL Swayam Examination, Final Year Mechanical Students Secured 5 Elite Silver & 15 Elite Certification.

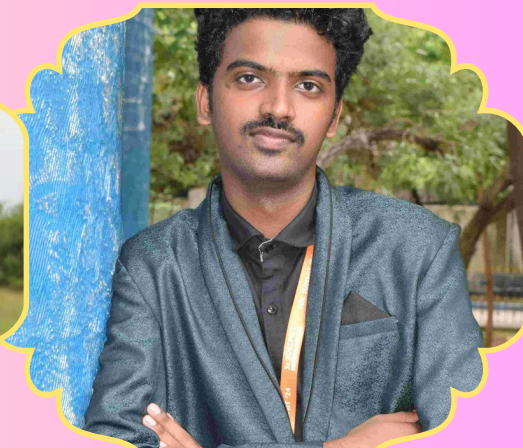
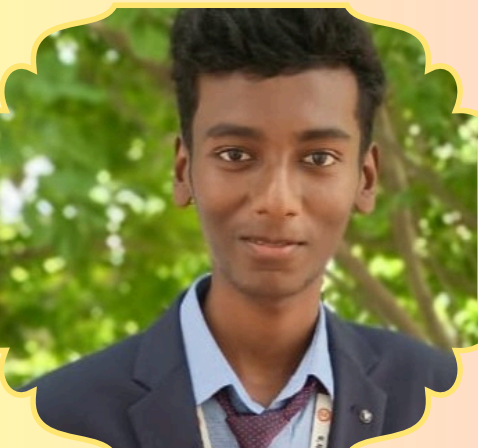
## Internship

Arther Bhion C, a third-year mechanical engineering student, has secured a 4-week full-stack development internship.



## Student Achievement

Arther Bhion C, Logaraj A, Manoj Kanna V, a third-year Mechanical engineering students, has been Selected as Campus Ambassadors for MyGov Program for our Campus.





## Student Achievements

From the Department of computer science and engineering, students "Balamurugan, Vidura Varshan" from batch (2023-2027) has won "second place" in "AI ZYPHER" competition which was held in "SRM University, Ramapuram, chennai.



We are proud to announce that Antro Sharon C. and Vijay Anand S. from Madras Christian College secured 3rd place in the Servitium 2024 competition, hosted as part of the prestigious event. Their remarkable performance in the Business Quiz is a testament to their knowledge, quick thinking, and dedication.

**PLACEMENT**

**NEWS**



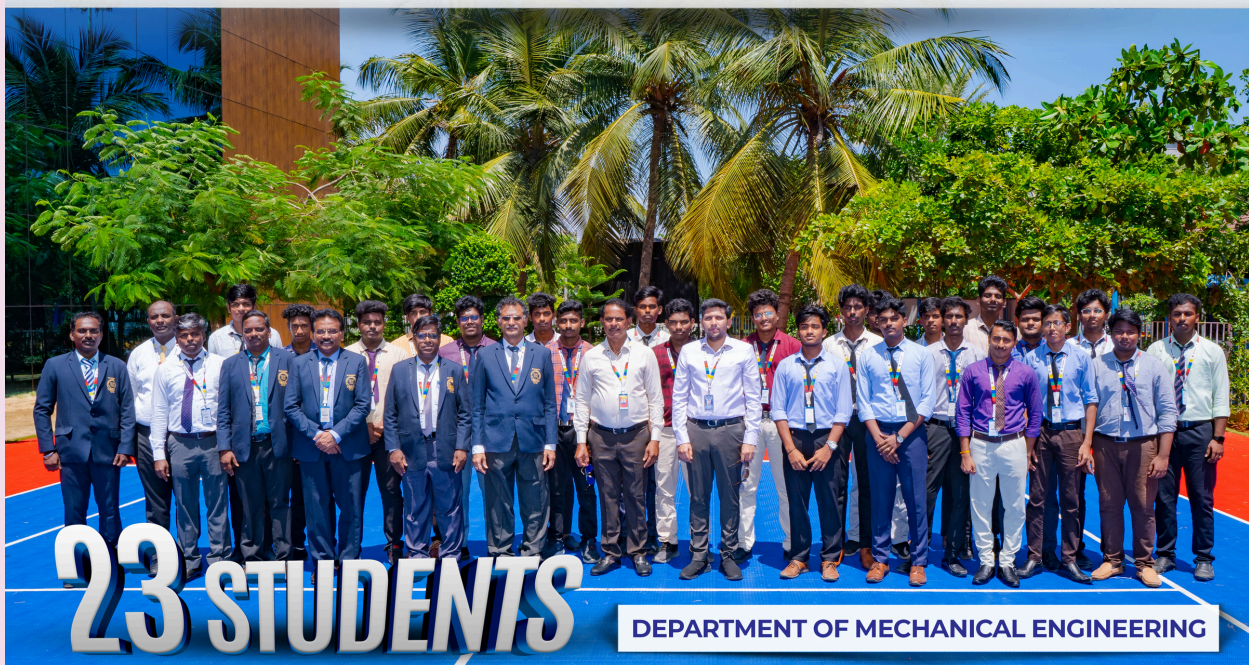
"Pioneering paths to Professional Excellence"

# PLACEMENTS

BATCH **2021-25**

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LAKH

PER ANNUM  
(AFTER TRAINING PERIOD)  
Rs. 1.91 LAKH ANNUAL REMUNERATION  
DURING TRAINING PERIOD



**23 STUDENTS**

DEPARTMENT OF MECHANICAL ENGINEERING

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**Michael Arul Abel J**

**Batch 2021-25**

Department of Electronics and  
Communication Engineering



# PLACEMENT NEWS

"LAUNCHING LEADERS FOR TOMORROW"

**PLACEMENTS**  
BATCH **2023-25**  
DEPARTMENT OF MBA



**Ms. BAVANEESWARI M**



**Ms. CHRIS SHERIN D**



**Mr. MAGELESH G**



**Mr. MOHAMED ISSATH S**



**Ms. SANGEETHA C**