

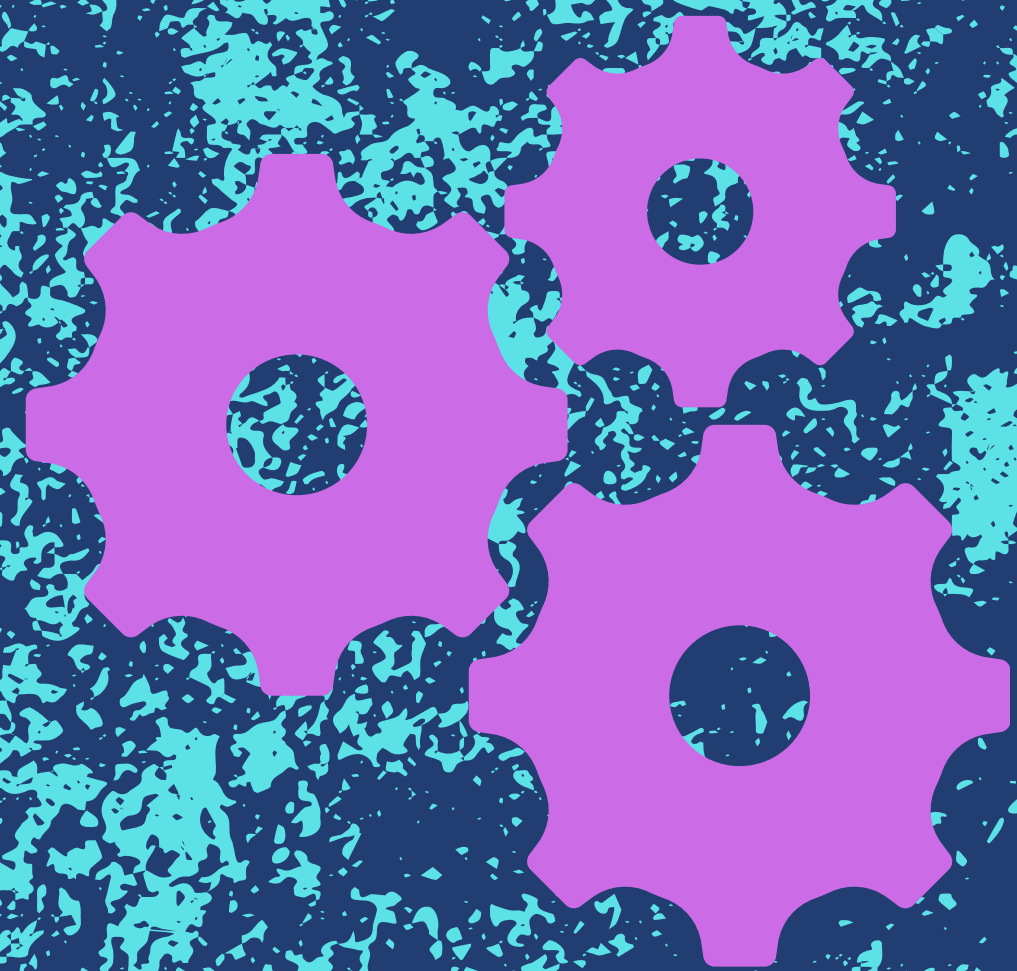


We Make You Shine
St. JOSEPH'S INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)

St. JOSEPH'S GROUP OF INSTITUTIONS
OMR, CHENNAI - 119



DEPARTMENT OF MECHANICAL ENGINEERING



JANUARY & FEBRUARY 25

Editorial Board

Dr.D.Elil Raja, Prof & Head-Mech

Dr.D.Arthur Jebastine Sunderraj, AP, Mech



MESSAGES

Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.,
Chairman



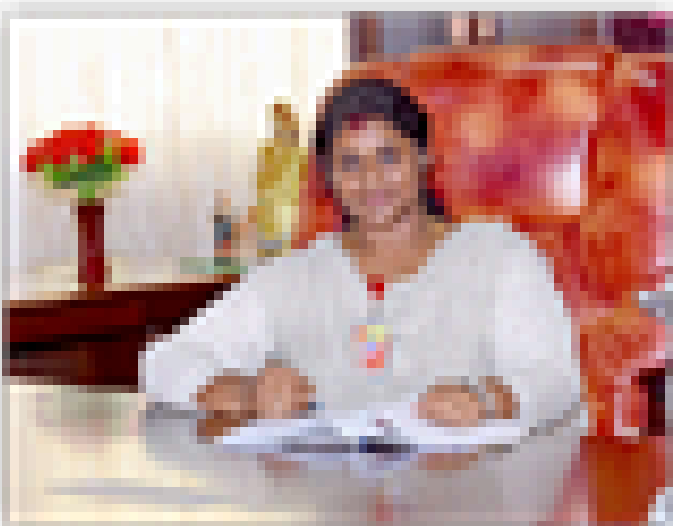
It gives me a great pride in giving credits to the staff and the students of the Department of Mechanical Engineering, St. Joseph's Institute of Technology for the excellent package "**BEACON**". This Newsletter speaks about the active merits and milestones accomplished by the college. I sincerely hope that the efforts help in unleashing their hidden potentials and thereby paying rich dividends for their future endeavors.

Mr. B. Shashi Sekar M.Sc.,
Managing Director



I am very happy that our institution shows a marvelous presentation of the activities through "**BEACON**". I am sure that the Newsletter would further enhance the academic activities. I congratulate the staff and students of the Department of Mechanical Engineering, St. Joseph's Institute of Technology for their excellent effort. I hope the Newsletter will be a great success.

Mrs. S. Jessie Priya M.Com.,
Executive Director



"**BEACON**" true to its name is bold in its contents. It gives me immense delight to see the exceptional forte of the students of the Department of Mechanical Engineering, St. Joseph's Institute of Technology. I congratulate the staff and the students for bringing out their Newsletter "**BEACON**" a road to success.

Dr. S Arivazhagan, M.E., Ph.D.,
Principal



I take this opportunity to laud the efforts of all those who were involve in the making of this Newsletter "**BEACON**" from the Department of Mechanical Engineering, St. Joseph's Institute of Technology. I am overwhelmed by the tenacity of the team in crafting their innovative and informative ideas into the Newsletter. I wholeheartedly believe that this constant effort will earn them more laurels.

Dr. G. Sreekumar M.Sc., M.Tech., Ph.D
Dean & Academic Coordinator



The "**BEACON**" Newsletter, a shining exemplar of excellence from St. Joseph's Institute of Technology's Department of Mechanical Engineering, is a tribute to the unwavering commitment and imaginative prowess of its creators. I commend each team member for their role in crafting this informative and engaging publication, which undoubtedly will garner widespread acclaim.

VISION

To provide knowledge centered education and prepare students for meeting global mechanical engineering challenges thereby enabling them to contribute for the prosperity of the society.

MISSION

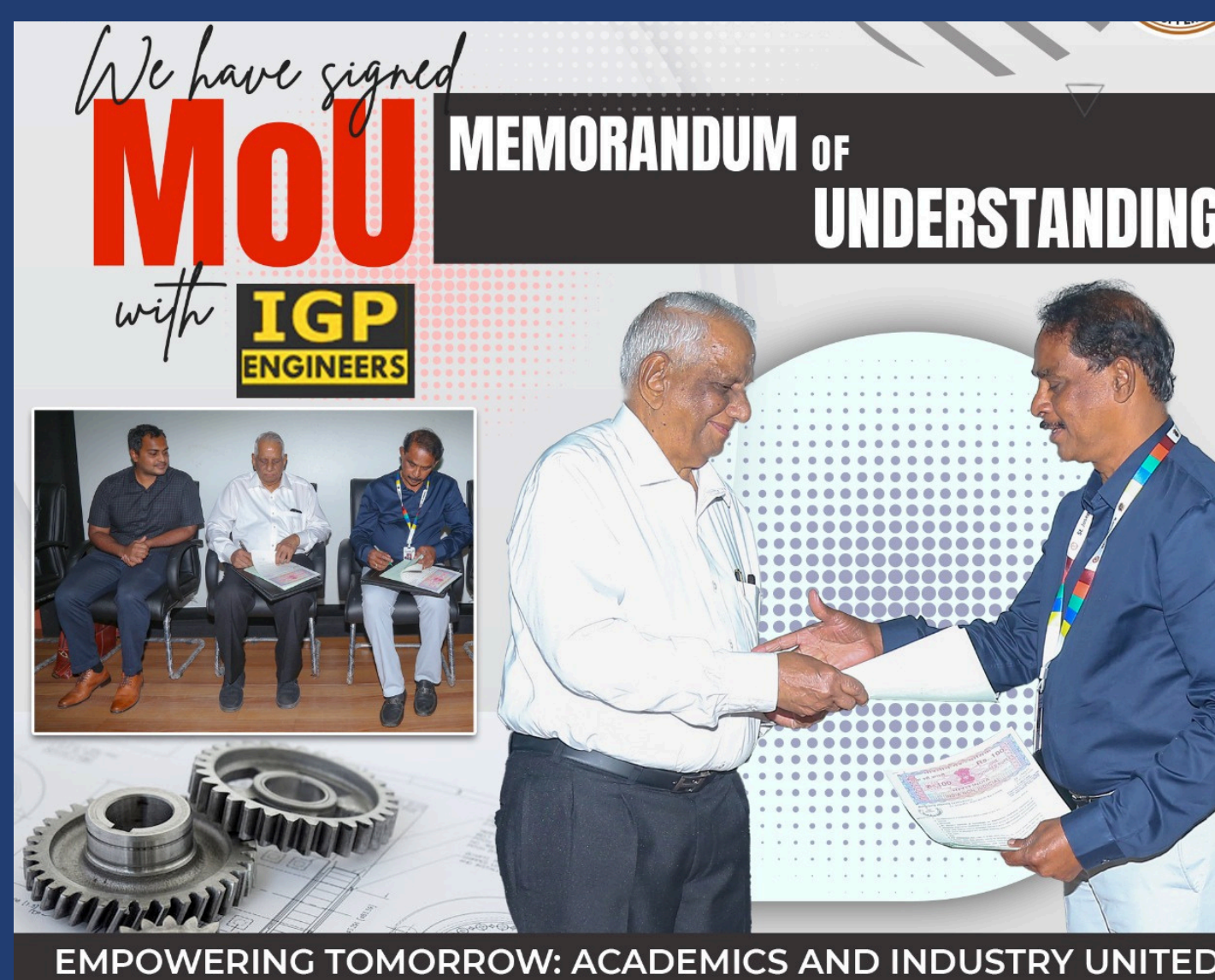
- To impart quality education in the field of mechanical engineering through teaching and learning process.**
- To promote students awareness about the importance of professional ethical practices.**
- To enrich the knowledge in mechanical engineering through research and innovation.**
- To inculcate the spirit of entrepreneurship among students.**

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MoU's

St. Joseph's Group of Institutions has signed a Memorandum of Understanding (MOU) with Rishaba Industries LTD, Chennai on 05th February 2025 and IGP Engineers, Chennai on 04th February 2025. This partnership aims to combine "Academic Excellence" with "Industrial Expertise." The MoU for Mechanical Department of both St. Joseph's College of Engineering and St. Joseph's Institute of Technology, both are autonomous institutions affiliated with Anna University.



Guest Lecture

Our Department in association with The Institution of Engineers (India), Kanchepuram Local Centre, has conducted a guest lecture on "Maintenance, Reliability and Condition Monitoring of Rotating Equipment in Industry." Mr. Raju Syam Kumar Reddy, a Technical Specialist at FLSmidth Pvt Ltd, Chennai, gave the lecture. It took place on February 12, 2025, at the Audio Visual Hall 1.



Guest Lecture

Our Department in association with The Institution of Engineers (India), Kancheepuram Local Centre, hosted an enlightening seminar on February 27, 2025. The event, titled "Exploring the Future of Automotive Engineering," featured Mr. Bharani Kumar Pichai, a Senior Functional Consultant at Renault Nissan Technology & Business Centre India, Chennai, as the expert speaker.

Held at AV Hall 1 from 11:00 AM to 12:00 PM, the seminar provided students with valuable insights into the latest advancements and future trends in automotive engineering. Mr. Pichai's expertise and experience offered a unique perspective on the evolving landscape of the automotive industry, inspiring students to think innovatively about their future careers.



Industrial Visit

Our Department organized an industrial visit for the Second year students to Ramco Cements Pvt Ltd's grinding unit in Chengalpattu on February 25, 2025. This visit provided students with an excellent opportunity to gain in-depth knowledge about close-circuit mills equipped with high-efficiency separators.

During the visit, students observed the operational processes, particularly how bag filters are used to dedust fine materials, thereby reducing particle release into the air and contributing to maintaining air quality. The experience was highly beneficial and specific to the department, enhancing the students' understanding of industrial practices and environmental considerations in mechanical engineering.

This visit underscores St. Joseph's commitment to providing practical, real-world learning experiences that complement academic knowledge, ensuring students are well-prepared for their future careers.



NGO Visit

Our Department organized an NGO visit for its third-year students on January 4th, 2025, at the Love Foundation in Minjur, promoting a culture of charity and social responsibility among the students



Our Department an NGO visit for its second-year students on January 4th, 2025, at the Marias Home for the aged, Butt Road, St. Thomas Mount. promoting a culture of charity and social responsibility among its students.



Staff Achievements

Our Department Staff, Mr. S.A. Muhammed Abraar has successfully completed an AICTE QIP program on the Internet of Things (IoT) at IIT Jammu. For attending this program our Institution gives a sponsorship to the faculty



Dr. N. Thangapandian, faculty of our Department has successfully completed a 6-month AICTE-QIP-PG certification program on 3D Printing at IIT Palakkad, demonstrating the institution's commitment to faculty development and cutting-edge technology. Faculty has been supported financially for attending this program by our Institution.



Professional Society Activity

Our Department in association with the Institution of Engineers (India), Kancheepuram Local Centre, is organized a motivational talk on "The Ultimate Guide to Starting Your Own Business." The event will held on January 27th, 2024, at 10:00 am in the Mechanical Cad lab. The speakers are Mr. M. Daniel, Founder & CEO, and Mr. M. Danny Andrews, Assistant Managing Director, both from DS Solution Tech Pvt Ltd. The staff coordinators are Dr. D. Elil Raja and Dr. D. Arthur Jebastine Sunderraj. The program aims to inspire and guide aspiring entrepreneurs by providing insights into the process of starting a business.



Staff Certification



Mr. Narayanamoorthy K. and Mr. Murali.D, Assistant Professor of our Department, have successfully completed an AICTE Training and Learning (ATAL) Academy Faculty Development Program on Green Material and Methodology for Sustainable Development at Mohamed Sathar A.J College of Engineering, from 09/12/2024 to 14/12/2024. showcasing the institution's commitment to environmental sustainability and professional development.



Dr. D. Arthur Jebastine Sunderraj, Assistant Professor of the our Department, successfully completed the Three Craft Course on Education for Sustainable Development from July to December 2024. Arthur achieved an impressive consolidated score of 82% in the proctored examination held on 07-12-2024. This prestigious certification was offered by Dr. Akila S. Indurti and coordinated by NITTR, Chennai. Arthur's dedication to learning and commitment to sustainable development is truly commendable. Congratulations on this remarkable achievement!



Mr. T. Prabhuram Assistant Professor has published the Book Called Renewable Energy: The Path to Sustainability with Rest Publishers along with Dr. S. A. Mohan Krishna, Dr. S. John leon, and NMG Kumar. ISBN 978-81-984621-9-0.



Mr. T. Prabhuram has participated in a Five-Day Faculty Development Program on “Advanced Materials and Manufacturing” from February 17 to 21, 2025. The program was conducted by Sri Sivasubramaniya Nadar (SSN) College of Engineering in association with ASM International Chennai Chapter the program aimed to enhance the knowledge and skills of faculty members in the latest advancements in materials and manufacturing technologies.

Staff Publication



Mr. D. Murali Assistant Professor, of our Department, has published the research work along with Shikalgar Niyaj Dilavar, Ashwin Sailesh, Manas Ranjan Sahoo, DVSSSV Prasad, K. Suresh Kumar, M Vamsi Krishna, R. Anandkumar, Murali. D, G. Nalinashini. Enhancing Mechanical Properties by Parameter Optimization in Fiber and Particle Reinforced Composites. Journal of Polymer and Composites. 2025; 13(02):75-85.



C. Udaya kumar Raju, Dr. Deepmala Biradar, Anu Mehra, Ramesh Krishnan, Prasanthi Valluri, Dr Kiran Kumar Reddy Penubaka, "Research on AI and IOT environment for financial stability and human resource management in industry", Cuestiones de fisioterapia, Vol. 54, Issue 5, 2025.



Y. Balagoni, S. S. Pitta, P. K. K. Reddy, S. Vallem, C. K. Rekha and Muhammed Abraar S A, "Hybrid Ensemble Machine Learning Combined with Grey Wolf Optimization for Superior Breast Cancer Prediction," 2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI), Goathgaun, Nepal, 2025, pp. 936-941.

Placements

Our Department is proud to announce the successful placement of Mr. S. Ponraj Jeyavarman from their 2021-2025 batch. Mr. Ponraj Jeyavarman has secured promising positions as a Business Development Executive. He will be contributing his skills to Morrisons, with a package of 2.7 LPA. This placement is a testament to Mr. Ponraj Jeyavarman's hard work and the quality of education provided by our St. Joseph's. This achievement reflects the institution's commitment to nurturing and shaping future professionals.



Our Department of Mechanical Engineering Specifically congratulates Mr. Ponraj Jeyavarman S and Mr. Ilamaran KN for securing jobs at Renault Nissan with a salary package of 4 LPA (Lakhs Per Annum).



Alumni Talk

Our Department hosted a pre-placement talk by Mr. Naveen S P from Thermax Ltd. for Mechanical Engineering students (2nd and 3rd year, and shortlisted students for Thermax). The talk was held on January 31, 2025, from 6:00 PM to 7:00 PM. our Department Alumni Association organizes the event.



An alumni talk titled "An Introduction to Startups". This event was organized by the Department of Mechanical Engineering in association with the Entrepreneurship Development Cell and the Institution's Innovation Council, under the Ministry of Education. The talk was delivered by Mr. Anirudh Gurumurthi, Project Associate at Startup TN and an alumnus of the 2017-2021 batch of the Mechanical Department. The target audience was second-year Mechanical Engineering students. The event took place on February 7th, 2025, from 11:00 am to 12:00 pm in Av Hall 1. Students gained valuable insights into the startup ecosystem and entrepreneurial opportunities. The event fostered networking between students and an accomplished alumnus, potentially inspiring future entrepreneurial endeavors.



Alumni Talk

Our Department and our Alumni association organized a motivational talk titled "Igniting a Passion for Academic Excellence." The event was held on February 18, 2025, from 7 pm to 8 pm. The speaker was Mr. Anil Thapa, an Associate Project Engineer at Grundfos and an alumnus of St. Joseph's Institute of Technology (2018-2022 batch). The talk was exclusively for second and third-year Mechanical Engineering students.



Institute Industry Interaction

Our Department is enhancing its connections with Industries to benefit its students. Dr. S. Prathap Singh, Assistant Professor, recently visited three companies: TAFE Access Limited (Hydraulic Pump Division), Super Auto Forge Private Limited (Plant 3), and Polyhose India Pvt Ltd (Unit 1). These visits resulted in company commitments to provide industrial visits, internships, and job opportunities for St. Joseph's students.

