



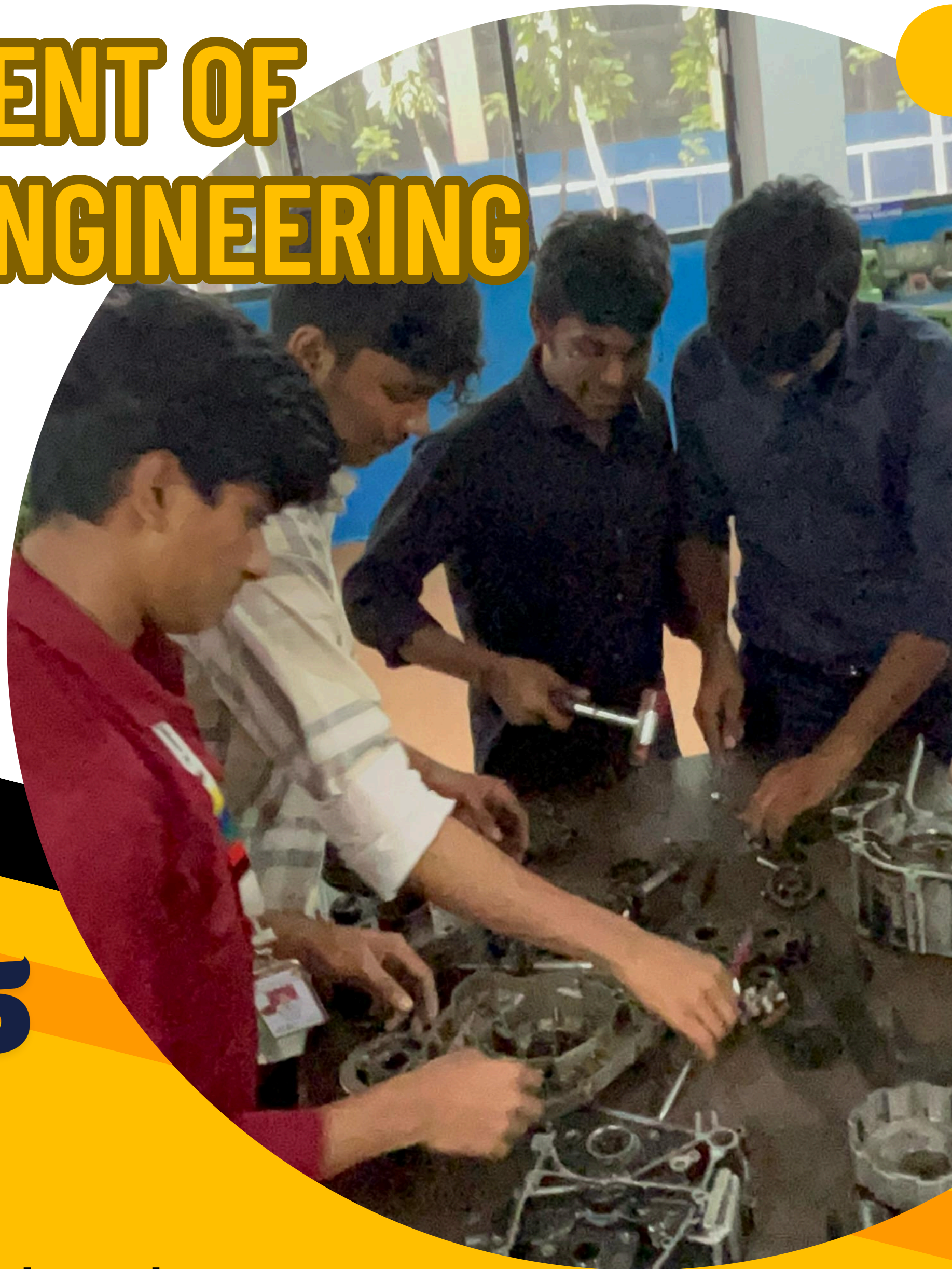
St. JOSEPH'S
INSTITUTE OF TECHNOLOGY
An Autonomous Institution, Affiliated to Anna University



DEPARTMENT OF MECHANICAL ENGINEERING

BEACON

March-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



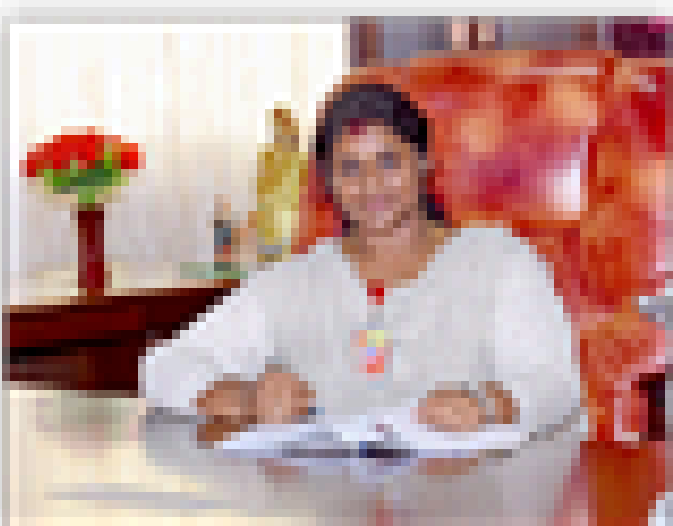
It gives me a great pride in giving credits to the staff and the students of the Department of Mechanical Engineering, St. Joseph's Institute of Technology for the excellent package "**BEACON**". This Newsletter speaks about the active merits and milestones accomplished by the college. I sincerely hope 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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PAID INTERNSHIP

Our Department is proud to announce a one-month Paid internship program at Rane in Pondicherry for its students.

The selected interns from the 2022-26 batch are:

1. Ajmal Ahmed Athik A
2. Finito Deagesh D
3. Hari Haran P
4. Porszhiyan A S
5. Pragadeep S

Each intern has received a stipend of Rs. 7,000/-, along with free accommodations, providing them with valuable industry exposure and hands-on experience. This initiative reflects the institution's commitment to expanding horizons and nurturing disciplined, top-performing students.



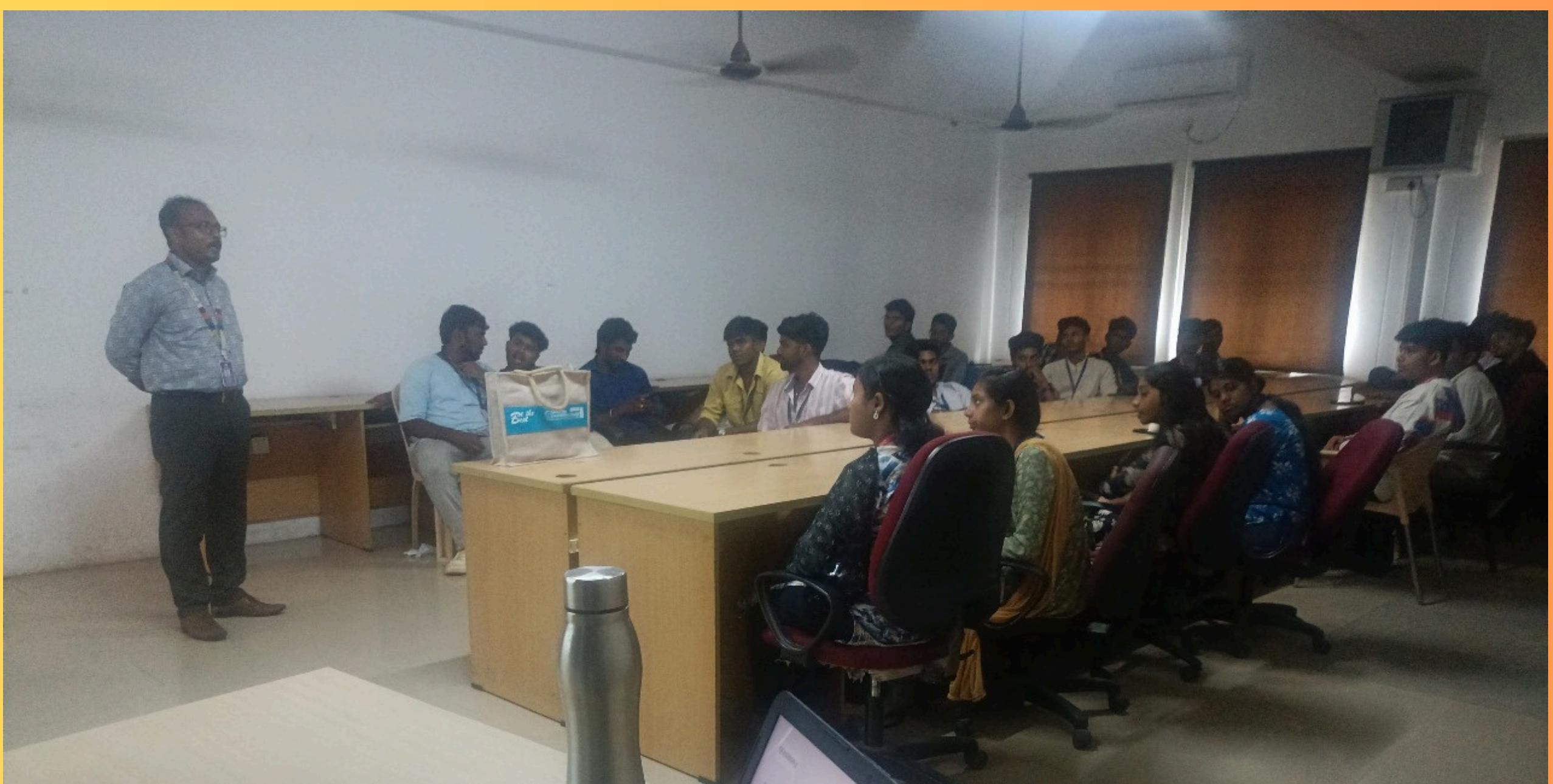
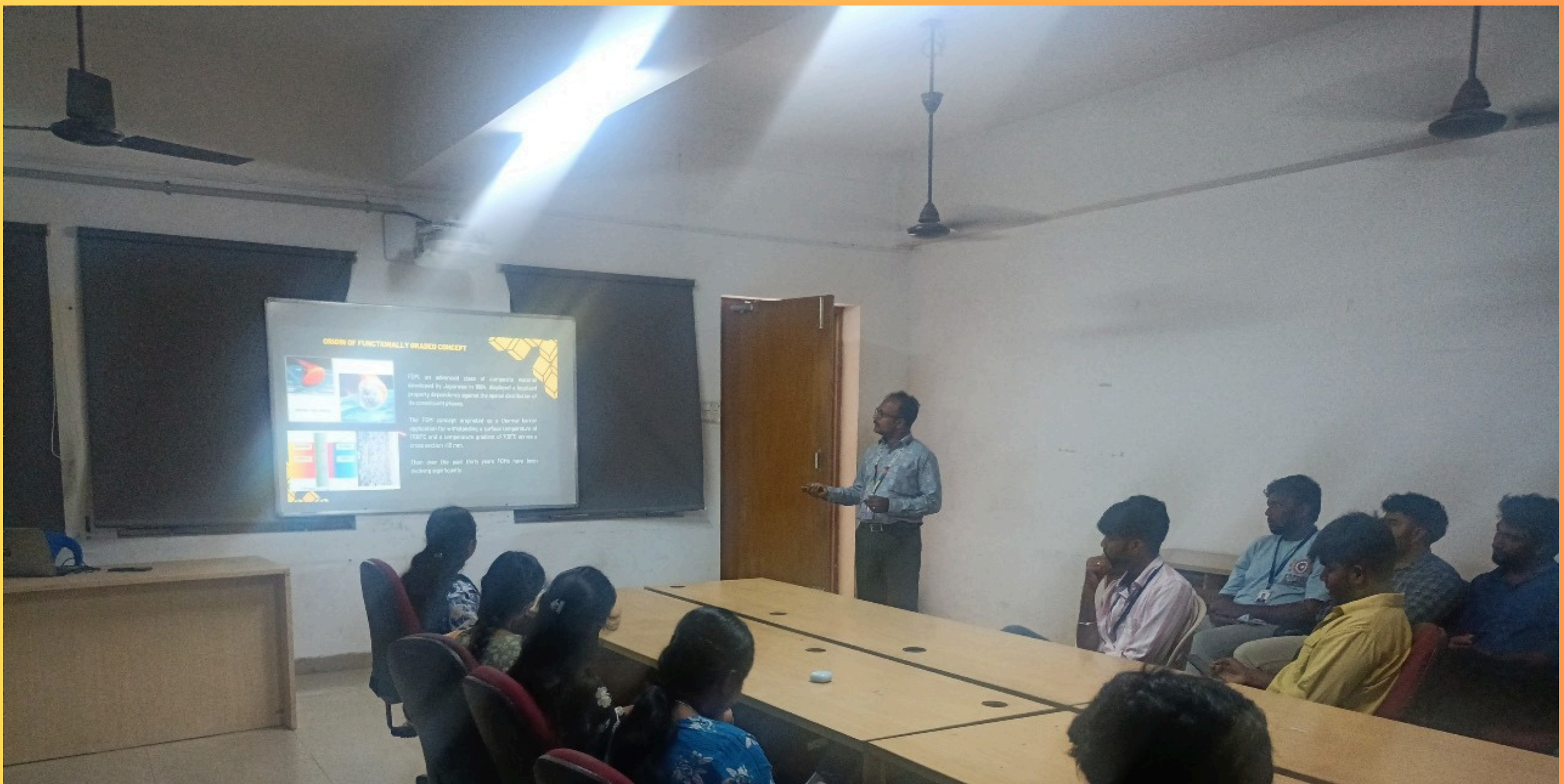
STAFF WORKSHOP ATTENDED

Mr. Muhammed Abraar S.A, Assistant Professor Department of Mechanical Engineering and two students, Guru Prasath Y and Mohamed Imran J, from II Year Mechanical, participated in the AICTE Idea Lab TechFest to showcase our innovations at AICTE Headquarters, New Delhi, on March 7, 2025.



RESOURCE PERSON

Dr. S. Prathap Singh, an Assistant Professor from the Department of Mechanical Engineering act as the resource person. For a seminar topic “Functionally Graded Materials - Case Studies and Future Scope.” The event is organized by the Department of Computer Science and Engineering of Saveetha Engineering College, on March 1, 2025



PATENT



Dr. D. Arthur Jebastine Sunderraj, Assistant professor of the Mechanical Engineering department from St. Joseph's Institute of Technology, and his team, has published a patent. In the title of "A New Era of Soldering: Praseodymium's Breakthrough" as a utility Indian patent numbered 202541016637 A published on 7th March 2025.

SEMINAR

Our Department Organized a technical seminar on "Product Design and Development for EV Vehicles." The event, held on March 19, 2025, was conducted by the seminar took place in the Library Conference Hall from 11:00 a.m. to 12:20 p.m. and was aimed at Third and second-year students. The session featured Mr. Subbu Raj, Branch Manager at CADDAM Technologies, as the keynote speaker. His expertise provided valuable insights into the evolving field of electric vehicle (EV) design and development, highlighting the latest trends and technologies in the industry.



GUEST LECTURE

Our Department, hosted an insightful guest lecture titled "Technology as a Co-Pilot for Mechanical Engineers." The event took place on March 13, 2025, at the Library Conference Hall, from 10:00 AM to 11:00 AM.

The lecture featured Mr. Vennimaal Murugan, a Presales Analyst at Tata Consultancy Services (TCS), Chennai, as the expert speaker. Mr. Murugan shared his expertise on how technology is transforming the field of mechanical engineering, acting as a "co-pilot" to enhance innovation, efficiency, and problem-solving in the industry.



GUEST LECTURE

Our Department hosted an insightful Guest Lecture on "Smart Mobility" on 28th March 2025 at Audio Visual Hall 2. The event featured Dr. A. Ragothaman, Project Lead - Vehicle Architecture at Volvo Group Trucks Technology, R&D, Bangalore, as the expert speaker. Attendees gained valuable perspectives on cutting-edge advancements in automotive technology, aligning with the institute's mission to bridge academia and industry.



INDUSTRIAL VISIT

On March 14, 2025, the Department of Mechanical Engineering has organized an industrial visit for its third-year students to TAFE Access Ltd, specifically to their Hydraulic Cylinder Unit located in Pudhupakkam. This visit provided students with a unique opportunity to gain practical insights into the manufacturing and testing of hydraulic cylinders.

During the visit, students observed the use of high-efficiency CNC machines in the production process, which highlighted the integration of advanced technology in manufacturing. They also witnessed the quality testing procedures for hydraulic cylinders, gaining a deeper understanding of the practical applications of their theoretical knowledge.

The visit was highly beneficial and department-specific, offering students a chance to bridge the gap between classroom learning and real-world industrial practices. It emphasized the importance of precision, efficiency, and quality control in the manufacturing sector.



STUDENT WORKSHOP

Our Department recently hosted a two-day workshop on Automotive Engine Assembly. The event, held from March 17th to 18th, 2025, was specifically designed for second-year students of the 2023-2027 batch.

The workshop aimed to provide students with hands-on experience and in-depth knowledge of automotive engine assembly, a critical aspect of mechanical engineering. The event was conducted in collaboration with Goodwin Motors, a renowned name in the automotive industry, ensuring that the students received expert guidance and practical insights.



Our Department organized a two-day Student Workshop on Non-Destructive Testing (NDT) from 27th to 28th March 2025. The event, attended by 3rd-year students (Batch 2022-2026), was conducted by Sai NDT, emphasizing practical learning and skill enhancement in NDT techniques.



Interview Cracking Session by Mechanical Engineering Alumni

Our Department and the Alumni Association organized an exclusive Interview Cracking Session for II and III-year students to equip them with industry insights and placement strategies. The event featured an expert alumni panel, including:

- Roshan Akthar (2016–2020) – Logistics Coordinator & Operations**
- Swaminathan K (2016–2020) – CAE/CAD Engineer & Asst. Manager, Optimuz Tech Service**
- Santhosh SP (2016–2020) – Project Engineer, ITP-Madras**

The session provided practical tips, mock interview scenarios, and career guidance, reinforcing the institute's commitment to student success.



COLLEGE DAY FEST 2024-2025

College Day Celebration – III Year (08-03-2025)

St. Joseph's Institute of Technology

The College Day Celebration for III-year students was successfully conducted on 8th March 2025, marking a day filled with vibrant performances and cultural enthusiasm. Students from various departments showcased their talents through a variety of dance performances, making the event a grand success.

Highlights of Mechanical Engineering Students' Performances

The Mechanical Engineering (MECH) students captivated the audience with two spectacular dance performances. Among them, the energetic and culturally rich performance titled "Tamil Pasanga" stood out and won a cash award of ₹3,000, recognizing their outstanding effort and creativity.

S.

No Dept Team Name Name of the Students Prize Amount

1. MECH Tamil Pasanga Pragadeep S, Kishore Kumar S, Finito Deagesh D, Yugandar K, Hariharan P Rs.3000/-

We congratulate all the participants for their enthusiasm and dedication in making this event memorable. Their hard work and passion for cultural activities truly added to the grandeur of the celebration.

College Day Celebration – II Year (15-03-2025)

St. Joseph's Institute of Technology

The College Day Celebration for II-year students was successfully held on 15th March 2025, showcasing an array of mesmerizing performances by talented students from various departments. The event was a vibrant display of cultural diversity, enthusiasm, and artistic excellence.

Highlights of Mechanical Engineering Students' Performances

The Mechanical Engineering (MECH) students put up two electrifying dance performances, captivating the audience with their energy and creativity. Among them, the standout performance titled "Habibi Boys"—a dynamic portrayal of life in Dubai—won a cash award of ₹3,000, recognizing their exceptional choreography and execution.

S.

No Dept Team Name Name of the Students Prize Amount

1. MECH HABIBI BOYS ABITH JOIEN .M, DEEPAK NOEL .M, SAM ROOSE .M, SABARISH .M, CHIDAMBARAM .M, JAYAKUMAR .E Rs.3000/-

We extend our heartfelt congratulations to all the performers for their dedication and passion, making the event a grand success. Their outstanding performances truly reflected the spirit of celebration and cultural excellence.

CULTURAL FEST 2024-2025

Cultural Fest 2025 – III Year Prize Winners

The Cultural Fest 2025 was a grand celebration of talent, creativity, and artistic expression, bringing together students from various branches. The competitions were held across multiple categories, showcasing the diverse skills of the participants.

The students of Mechanical Engineering (MECH) displayed exceptional talent, securing prizes in the following events:

 **Creative Writing (Tamil) – III Prize**

Porsezhiyan A.S (MECH)

 **Clay Craft – III Prize**

Pragadeep S (MECH)

 **Oratorical (Tamil) – III Prize**

Rishi M.S (MECH)

We extend our heartfelt congratulations to all the winners and participants for their dedication and enthusiasm. Their remarkable performances have truly made the event a memorable one, fostering creativity and cultural appreciation.

Cultural Fest 2025 – II Year Prize Winners

The Cultural Fest 2025 for II-year students was a vibrant and engaging event, bringing out the artistic and creative talents of students across various domains. The competitions showcased a wide range of skills, from music and literature to art and public speaking.

Outstanding Achievements of MECH Branch

The students of Mechanical Engineering (MECH) displayed remarkable talent, securing prizes in the following event:

 **Composing (Song & Music) – III Prize**

Jhon Marcus (MECH)

We congratulate all the winners and participants for their dedication and enthusiasm. Their incredible performances have made the event a grand success, fostering creativity and cultural excellence.

INTRAMURAL SPORTS 2024-2025

The Department of Physical Education successfully conducted the III-Year Intramural Sports on 4th March 2025, fostering competitive spirit and teamwork among students. Various sports events were held, and students showcased their talent with remarkable performances.

Outstanding Achievements of MECH & EEE Branch

The MECH & EEE students demonstrated exceptional performance across multiple events:

Ball Badminton (Men) – Runners-Up

Volleyball (Men) – Winners

We congratulate all the winners and participants for their dedication and sportsmanship. The event was a great success, reinforcing the spirit of competition and teamwork among our students.

The II-Year Intramural Sports was successfully conducted on 11th March 2025, bringing together students in a display of sportsmanship and competitive spirit. The event featured various sports, allowing students to showcase their talent and teamwork.

Outstanding Achievements of MECH & EEE Branch

The MECH & EEE students displayed remarkable performances in the following events:

Volleyball (Men) – Runners-Up

Kabaddi (Men) – Runners-Up

We extend our heartfelt congratulations to all the winners and participants for their dedication and enthusiasm. The event was a grand success, promoting a strong spirit of unity and competition among students.