



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

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Accredited by NBA & NAAC 'A' Grade

Kalitheerthalkuppam, Puducherry - 605107



DEPARTMENT OF MECHANICAL ENGINEERING

NEWSLETTER 2024-25 (ODD SEM)

57th ENGINEERS DAY



A Guest lecture for Engineer's day was conducted by the Department of Mechanical Engineering in association with the Institution of Engineers India IE(I) Mechanical Engineering Students Chapter, Puducherry state centre on 23rd August 2024.

Dr. B. Radjaram, IP Chairman of IE(I), Member of ISHRAE, NIQR, and Head MECH, warmly welcomed the students and highlighted the significance of engineers in various fields..**Mr. Venkataboopathy, Associate Consultant, Capgemini, Chennai**, was the Chief guest and address the gathering on the theme of "Driving Sustainability with Engineering Solutions

Embracing the latest AI driven Technologies. The session aimed to inspire students by highlighting real-world applications and career prospects in the field of Artificial Intelligence. Mr. S. Ganeshkumar, AP/MECH, delivered the vote of thanks.

WORLD ENVIRONMENT DAY



In commemoration of World Environment Day, the Department of Mechanical Engineering, in association with ISHARE Puducherry Sub-Chapter, organized a **drawing competition** for school students on 31st May 2024.

Dr. B. Radjaram, IP Chairman of IE(I), Member of ISHRAE, NIQR, and Head MECH, extended a warm welcome to the attendees. The event was coordinated by Mr. A. Thiagarajan, AP/MECH, and a member of ISHRAE. This

initiative sought to inspire young minds to artistically convey the critical importance of environmental preservation, fostering awareness and creativity in sustainability.

Guest Lecture



A Guest Lecture On "*Basics of Psychrometry*", conducted in association with Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) Mechanical Engineering Students Chapter, Puducherry on 27th July 2024.

Dr. B Radjaram, IP Chairman, IE(I), Member ISHRAE, NIQR & HOD / MECH, introduced the chief guest. Mr.V.Alisodai, Proprietor,Vayhu Consultant Chennai was the Chief guest and addressed the students with fundamental knowledge and practical insights into psychrometric applications in HVAC systems.



A Guest Lecture on "*Offshore, Oil & Gas Industries*" conducted in association with Indian Plumbing Association (IPA) Mechanical Engineering Students Chapter, Puducherry on 21st August 2024.

Dr. B. Radjaram, IP Chairman of IE(I), Member of ISHRAE, NIQR & HOD / MECH, introduced the chief guests. Mr. Jayabaskaran (Digital Marketing Manager), Mr. Samchay Jain (Marketing Executive), and Mr. Shakthivel (Trainer) from Pondicherry International Safety Training Academy (PISTA) served as the chief guests and delivered insightful addresses. They provided students with valuable knowledge on the fundamentals, operations, and career opportunities in the offshore oil and gas sector.



A Guest Lecture On "**Quality Control In Manufacturing: Tools, Techniques, and Best Practices**", was organized in association with National Institution for Quality & Reliability(NIQR) Mechanical Engineering Students Chapter, Puducherry on 30th September 2024.

Dr. B Radjaram, IP Chairman, IE(I), Member ISHRAE & HOD / MECH, introduced the chief guest. Mr. Venkatesh Tekkalki, DGM, Plant Quality Head, Poclain Hydraulics Pvt.Ltd, Puducherry was the Chief guest and addressed the students with basic quality control concepts, tools, techniques, and best practices used in manufacturing.

INDUSTRIAL VISIT



Students of II ,III & IV Year Mechanical Engg visited **Suja Shoe**, Tindivanam on 12th August 2024 is to explore the mechanical engineering aspects of shoe manufacturing, focusing on machinery, automation, and production efficiency.



Students of II ,III & IV Year Mechanical Engg visited **Pista International Safety Training Academy And Accommodation** , Puducherry on 27th August 2024 to deepen their practical knowledge in industrial safety practices, enhancing expertise in hazard management and risk assessment. It offers hands-on training and exposure to best safety practices.

WORKSHOP COURSES



One day workshop on "**Welding Inspection Techniques**" was conducted by Mr. R.Pradeepkumar, General Managar, Shri Sai NDT, Puducherry on 1st August 2024 for II, III

& IV year Mechanical students. This workshop aims to bridge theoretical knowledge with practical skills for industry-ready competence.



One day workshop on **“Digital Fabrication & Planning and Designing of Industrial Sheet Metal Parts”** was conducted by Mr.J.Jagan, Chairman, Vector Solution, Puducherry on 27th September 2024 for II, III & IV year Mechanical students. This workshop aims to equip mechanical engineering students with the skills to design and fabricate industrial sheet metal parts using digital tools and techniques. It also bridges academic learning with practical industry applications in precision manufacturing and design.

IPR AWARENESS PROGRAM



Awareness session on **“How to file IPR”** on 06th September 2024 was conducted by

Dr.P.Natarajan, AP / Mech, for II, III & IV year. The session aims to empower students to safeguard their inventions and ideas effectively.

STAFF ACTIVITIES

JOURNAL PUBLICATIONS

Dr. P. Natarajan and Dr. B. Radjaram have published a journal article titled "Enhanced TiO₂ Coating via Sol-Gel Al₂O₃ Doping for Improved Characteristics" in Surface Engineering, by SAGE Publications with impact factor of 2.8.

BOOK PUBLISHED

Mr.A.Thiagarajan has published the book titled **“Manufacturing Processes”** Brown page, publication. Faridabad, Haryana, Date of Publication 22nd August, 2024 ISSN/ASIN no.B0DF2YPDT2

CONFERENCE ATTENDED

Mr. R. Ilandjezian has attended 4th **International Conference on Waste, Energy & Environment** (ICWEE- 2024) during 03rd to 05th July 2024.

Mr. R. Ilandjezian has attended 9th **International Conference on Human Values in Higher Education** (ICHVHE 2024) during 22nd to 24th November 2024.

Dr. A. Mathiarasu has attended 9th **“International Conference on Human Values in Higher Education”** (ICHVHE 2024) during 22nd to 24th November 2024.

Mr.A.Thiagarajan has attended 3rd International Conference on **“Advancements in Sustainable**

Energy, Materials, and Manufacturing Technology” (ICASMMT 2024) during 17th to 20th December 2024.

WORKSHOPS ATTENDED



Dr. B. Radjaram, Dr. P. Natarajan, Mr. A. Thiagarajan, and Mr. R. Ilandjezian participated in the One-Day National Workshop on "Green Hydrogen: Technology to Application," organized by the Department of Green Energy Technology, Pondicherry University.

FDP ATTENDED

Mr. R. Ilandjezian, AP / Mech, and Dr. A. Mathiarasu, AP / Mech have successfully participated in a five-day online Faculty Development Program (online) on **“Innovations and Frontiers in Metallurgical Engineering”** from 13th to 17th January 2025.

Mr. R. Ilandjezian, AP / Mech, has successfully completed **“Legal Compliance Auditor” (ESG & EHS)** training at SSN college of Engineering, Chennai, from 27th to 31st January 2025.

A team of faculty members from the Mechanical Engineering department, including Mr. K. Selvam, Mr. A. Thiagarajan, Mr. B.

Vasanth, Mr. S. Ganeshkumar, Mr. R. Ilandjezian, Dr. A. Mathiarasu, Dr. P. Natarajan, Dr. S. Krishnakumar, and Mrs. G. Deebea, actively participated in the 2nd International Five-Day Faculty Development Program on **"Sustainability and Research in Modern Mechanical Engineering"** The program was held from 23rd to 27th September 2024, and was organized by the Department of Mechanical Engineering at Madanapalle Institute of Technology & Science, Andhra Pradesh, India.

Mr. K. Selvam, AP / Mech, attended a three-day Faculty Development Program on **“Setting Goals and Managing Time”** organized by ICT Academy from 26th to 28th December 2024, at Manakula Vinayagar Institute of Technology, Puducherry.

Mrs. G. Deebea, AP/ Mech has actively participated in the National Level One Week STTP on **"Generative AI Tools Across Disciplines: Transforming Research and Innovation"** Organized by the Department of Mechanical Engineering, Ramachandra College of Engineering (A), Eluru, West Godavari (Dt.), Andhra Pradesh in collaboration with PencilBitz from 09th to 14th January 2025.

STUDENTS ACTIVITIES



Mr. Mohamed Noor, a final-year Mechanical Engineering student, was honored with a **Certificate of Appreciation** by the Honorable Lieutenant Governor of Puducherry for his outstanding performance in an essay competition held as part of the Mission Zero Fatality Awareness Campaign, organized by the Puducherry Traffic Police on 10th January 2025.



Final-year students Mr. B. Sakthi Saravanan and Mr. S. Akash Kumaran took part in the ISHRAE **A-QUEST 25** contest and qualified for the Semi-Finals held at Maharaja Institute of Technology, Mysore, with sponsorship from the ISHRAE Puducherry Sub-Chapter.

EXTERNAL INTERACTIONS

Dr. B. Radjaram, IP Chairman of IE(I), Member of ISHRAE, NIQR and HOD / MECH, visited the state-of-the-art laboratory facilities in the Department of Green Energy Technology at the Madanjeet School of Green Energy Technologies, Pondicherry University, on 10th December 2024.



Dr.B.Radjaram, IP Chairman, IE(I), Member ISHRAE & HOD / MECH was a member of **Natioanl Advisory committee** for South Asia foundation sponsored Two days National Conference on “**Green Energy Technologies for Sustainability**” UNESCO Chair activity on 20th & 21st March 2024 organising by Department of Green Energy Technology, Madanjeet school of Green Energy

Technologies, Pondicherry University.

Dr. P. Natarajan, AP/ MECH actively participated in the CII Puducherry **MSME Business Conclave – 2024**, held on 20th December 2024.



Mr. A. Thiagarajan, AP/ MECH, Member ISHARE, Mr. R. Ilandjezian, AP/ MECH have participated in state level training program on **Energy Efficient Retrofits** organized by The Bureau of Energy Efficiency (BEE) to promote energy efficiency and retrofitting in India.



Mr. R. Ilandjezian, AP/MECH, and Dr. S. Krishnakumar visited **Touch Solar Technologies**, a leading lithium battery manufacturer in Ariyankuppam, Puducherry. During their visit, they engaged in in-depth discussions and gained valuable insights into the

company's advanced manufacturing processes and technological innovations.



Mr. R. Ilandjezian, AP/MECH, and Mr. S. Ganeshkumar, AP/MECH, visited **Eaton Power Quality Pvt. Ltd.**, a manufacturing company in Sedarapet, Puducherry, and engaged in discussions and interactions.

