

**DEPARTMENT OF MECHANICAL ENGINEERING**

**VIBRANT**

**AN ANNUAL MAGAZINE OF MECHONS**

**VOLUME**



**2023-2024**

**MANAKULA VINAYAGAR INSTITUTE OF  
TECHNOLOGY**

**Kalitheerthalkuppam, Puducherry – 605 107**

### **VISION:**

*“ The Mechanical Engineering Department aspires to be acclaimed globally for renowned education and research to accelerate well qualified engineers who are creative ,entrepreneurial and flourishing in advanced fields of engineering and research “.*

### **MISSION:**

**Higher order Thinking:** *To assure Quality Education to the students and broaden their profession to make them globally competent Mechanical Engineers.*

**Continuous learning:** *Nurturing vital state of art, Research facility to provide students and faculty with outstanding opportunities to discover, illustrate , implement and disseminate wisdom .*

**Competency:** *To develop alliance with world class R & D Organizations and Educational Institutions in India and overseas for teaching, research and consultancy services.*

**Entrepreneurship:** *To provide the students with academic environment of excellence, leadership and ethical guidelines needed for lifelong prospective career.*

### **ABOUT THE DEPARTMENT:**

*Under graduation Education (UG) Course B.Tech in Mechanical Engineering is a Comprehensive degree program. The goal of Mechanical Engineering Curriculum is to create a flexible undergraduate educational experience in Design, Mathematics, Modeling, Computation, Quality Management, Engineering Science & Humanities.*

*The Department of Mechanical Engineering has been continuously striving to make progress in Teaching and Research. The Department was started with an intake (UG) OF 60 students in 2012 and 120 students in 2015. The Mechanical Department is well equipped with excellent laboratories to make the students to easily understand and study the latest research areas such as Computational Fluid dynamics, Mechanics of Robot, Aerospace and Defense field, etc and also has separate Department library houses, best books in the technical field this vast reservoir of knowledge is a source of constant value addition to the students and faculty members the library is rich in manufacturing , Design , Metallurgy , Drawing and Materials science . To enhance the Technical skills of the students , the department also organizes various program such value added course ,Quiz Competition ,seminars , workshops , Industrial Visits and Guest Lectures which would make them globally competitive as well as students to become as indispensable Engineer and earn the income they deserve .*

## GOALS AND STRATEGIES

- a. Ensuring the preeminence of learning.
- b. Providing high quality programs that meet the evolving needs of our students, community and sector.
- c. Ensuring scholarly and creative activity.
- d. Making collaboration integral to our core sectors.
- e. Creating an environment where all students have the opportunity to succeed.
- f. Expanding connections and partnerships with our peers.

## ALL INDIA SEMINAR



Two days All India seminar on “Advances in Nanotechnology for Sustainable Development” Under the aegis of Engineering Division Board, IEI, In Association with Department of Mechanical Engineering was organized from 4<sup>th</sup> to 5<sup>th</sup> September 2023.



Two Days All India Seminar On “Advanced Materials: Synthesis, Characterization and Applications” Under the aegis of Metallurgical & Materials Engineering Division Board, IE(I) was organized from 6<sup>th</sup> to 7<sup>th</sup> October 2023.

### WORLD ENGINEERS DAY



A Guest lecture for World Engineer’s day was conducted by the Department of Mechanical Engineering in association with Institution of Engineers India (IEI) Mechanical Engineering Students Chapter, Puducherry state

centre on 15<sup>th</sup> september 2023 by Er.K.RAJAKUMARAN , B.Tech, Business development manager from Chennai on the theme of “Engineering a resilient future : Building Stronger,Smarter,Safer” Innovation for a more resilient World.

### WORLD ENVIRONMENT DAY



On account of world Environment day – Department of Mechanical Engineering has organized Drawing competition on 16<sup>th</sup>September 2023for Puducherry school students in association with IEI Puducherry state centre and50 students were participated in this event.

### WORLD STANDARDS DAY



A guest lecture was conducted on account of **WORLD STANDARDS DAY** in association with Institution of Engineers India (IEI) Mechanical Engineering Students Chapter, Puducherry on **26<sup>th</sup> October 2023**. Dr. B Radjaram, Head of the Department (Mechanical Engineering) & Chairman of the Institutions of Engineers (India)- Puducherry state centre honoured & Introduced the chief guest. **Er.B.CHAYESH** QualityExecutive, TVS-Sundram Fasteners Limited, Mandagapattu from Villupuram Dt was the Chief guest and addressed the students on the theme “ Shared Vision for a better world with sustainable development goals” to spread awareness about the significance of standardization in the global economy among regulators, consumers, and industries to achieving the sustainable development goals.

### WORLD HABITAT DAY



A guest lecture was conducted on account of **WORLD HABITAT DAY** in association with Institution of Engineers India (IEI) Mechanical Engineering Students Chapter, Puducherry on **27<sup>th</sup> October 2023**. Dr. B Radjaram, Head of the department (Mechanical Engineering) & Chairman of the Institutions of Engineers (India)- Puducherry state centre honoured & Introduced the Chief guest. **Er. R.GNANASEGARAN**, Mentor-Startups- Atal Incubation Centre-PTU, Founder & CEO- Pudhuvai Green Gas Chemicals & Fertilisers Pvt Ltd, Puducherry was the Chief guest and addressed the students on the theme “Resilient urban economies. Cities as drivers of growth and recovery”.



### SPECIAL LECTURE



A Special lecture was organized by the Department of Mechanical Engineering on 8<sup>th</sup> February 2024. Dr. B Radjaram, Head of the Department (Mechanical Engineering) delivered a special lecture about Industry 5.0 COBOT Technology to Mechanical Students of Sri Manakula Vinayagar Polytechnic College, Kalitheerthal Kuppam, Puducherry.

### GUEST LECTURE



Guest Lecture Programme was conducted by Manakula Vinayagar Institute of Technology organized by the Department of Mechanical Engineering and National Institution for Quality and Reliability (NIQR) Puducherry MIT Students Chapter Mechanical to address the SDG 9 & 11.

Dr. B Radjaram, Controller of Examiner and Head of the department (Mechanical Engineering) honoured & introduced the chief guest, Dr. V Swaminathan, Sr. National Vice President NIQR. Dr. P. Natarajan,

Assistant professor, welcomed all. The chief guest addressed the students in the title of Work Ethics and Total Quality Management to educate students about the importance of ethical conduct in the workplace.

Mrs. G. Deeba, Assistant professor gave vote of thanks. The college and National Institution of Quality and Reliability, Puducherry MIT Students Chapter Mechanical are conducting such guest lecture programme as part of Institution's social responsibility.

### GUEST LECTURE



A Guest Lecture was organized by Department of Mechanical Engineering in association with NIQR puducherry on 8th april 2024 to address the SDG 8 & 11. Dr. B Radjaram, Head of the department (Mechanical Engineering) introduced the Chief guest. Mrs. Mahalakshmi Sankar, Entrepreneur, Jagadguru rubber engineering industries, LLP and Executive Council Member, puducherry was the Chief guest and addressed the students on the theme “Problem solving Techniques in an industrial Approach”.





A Guest Lecture on “Occupational Health and Safety for Engineers” was organized by Department of Mechanical Engineering in association with energy club on 5th April 2024 to addresss the SDG 3 & 8. Mr. K.Vengatesan HSE specialist / advisor, global safety consulting services, puducherry was the Chief guest and addressed the students about inspecting and evaluating workplaces for fire and safety concerns, as well as recommending and implementing safe workplace processes and fire prevention and control measures.

### WORKSHOP COURSE



**Mrs.G.Deeba**,has organised4 days workshop on“**ADVANCED TRAINING ON INDUSTRIAL PNEUMATICS**”,SMC,COPORATION,CHENNAI from 25.08.23 to 29.8.23



Er.J.JAGAN Chairman Vector Solutions Puducherry, one day workshop on “Laser Engraving & 3D Printing was conducted on 12.03.2024 for 3rd year Mechanical students.

#### INDUSTRIAL VISIT



Final year students of Mechanical Engg has visited SEA BLUE ship yard, Cochin on **12<sup>th</sup> October** to enrich their knowledge in order to give wide exposure on the Industrial Environment.



Third year students of Mechanical Engg visited Poelain Hydraulics Private Limited, Puducherry on 22nd March 2024 to understand the organizational structure and key stakeholders of a manufacturing company .



Second & Third year students of Mechanical Engg visited Suja Shoei Industries Private Limited, Tindivanam on 26th March 2024 to learn about the strategic decisions involved in operating a private limited company, including market positioning, product diversification, and competitive analysis.



IIInd,IIIrd & IV year students of Mechanical Engg visited Rajshree Sugars And Chemicals Limited, Villupuram on 27th March 2024 to explore about the industrial processes, machinery operations, and maintenance practices within a real-world manufacturing environment.



III<sup>rd</sup> & IV year students of Mechanical Engg visited Neyveli Lignite Corporation India Limited, Neyveli on 10<sup>th</sup> April 2024 to gain insight into the lignite mining industry, including the significance of lignite as a fuel source, mining operations, reserves estimation, and the role of NLC as India's largest lignite mining company.

#### **BEST STUDENT CHAPTER AWARD (IEI)**



#### **Best Student Chapter Award**

56<sup>th</sup> Engineers Day was celebrated in Puducherry by the IEI Puducherry State Centre on the occasion of the birth anniversary of Bharat Ratna Dr. M. Visvesvaraya. Dr. B. Radjaram, President of the IEI Puducherry State Centre, greeted all members of the IEI Puducherry State Centre. Mr. G.C. Chokkanathan, Plant Manager, FOSECO India Ltd. Mettupalayam, Pondicherry, was invited as the event's chief guest.

On behalf of the IEI Puducherry State Centre, Lifetime Achievement Award, Best Woman Engineer Awards and Best Student Chapter Awards were presented at the ceremony.

Mr. Abdul Hadi and Mr. Sai Vaidyanathan received the Lifetime Achievement Award for their outstanding contributions to the engineering industry. Dr. Himavati, Professor, Department of Electronics & Communication Engineering, Puducherry Technological University, as well as Engineer Jenny Sara Jacob, received the Best Woman Engineer Award. Department of Mechanical Engineering, Manakula Vinayagar Institute of Technology was selected as the best student Chapter (IEI Best Student Chapter Award) for the year 2022-23 and announced at the ceremony. The Principal of the college Dr. S.



Malarkkan received the award on behalf of the college and address the gathering. He was accompanied by the Head of Department of Mechanical Engineering, Assistant professors and students who received the award.

Dr. S. Thirougnaname, Honorary Secretary,IEI Puducherry State Center, gave a vote of thanks to all. The arrangements for the function were done by the Committee members of IEI Puducherry State Center

#### MITILENCE-24



MITILENCE – A National Level Technical Symposium was conducted on 16-17th February 2024. Every Year, our college is organizing the Two days National Level Technical Symposium MITILENCE on 2nd week of February at our MIT campus as apart of students development activities. The main objective of this technical symposium is to kindle the talents of the Engineering students and to provide opportunities for them to know the technological developments in their field of specialization and share it with others. Various technical and non-technical events like, Paper Presentation, Technical Quiz, Sherlock Holmes and Bottle rocketix were conducted. The winners of the various events are awarded with cash prizes and merit certificates.

#### STUDENTS ACTIVITIES

M.Kamalesh , R.Maheswaran , Muralidharan.M & A.Eswar of final year Mechanical Engineering has won cash prize of Rs.3000/- in Quiz competition contest organized by ISHARE sub chapter puducherry state, on 20.09.23



PRODIGIOUS TALENT



KIRUBAKARAN . R THIRD YEAR/ MECHANICAL



THRISHA ANGEL.S THIRD YEAR/ MECHANICAL

### **ABOUT VIBRANT**

Vibrant is a yearly Magazine compiled and published among students by the students community in Manakula Vinayagar Institute of Technology from the Department of Mechanical Engineering. Students from all years can indulge in Innovative and interested topic related either engineering related trends or in Non Technical related topics.

Students can express their own confession or any other ideas they can give for the development of Mechanical Engineering Department and the Institution.

Students Extracurricular and all other stuffs that they were really interested and want to develop can indulge in this magazine and show case their talent.

### **Chief Editors**

**Mr. A.Mohamed Imthiyas/Second year/Mechanical Engineering**

Mr.M. Abdue Fahad /Second Year/Mechanical Engineering

### **Associate Editor**

Mr.B.Praveen Kumar/ Second Year/Mechanical Engineering

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