

# MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

## DEPARTMENT OF MECHANICAL ENGINEERING

### 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:

- ❖ To assure quality education to the students and broaden their profession to make them globally competent Mechanical Engineers.
- ❖ Nurturing vital, state of art, research facility to provide students and faculty with outstanding opportunities to discover, illustrate, implement and disseminate wisdom.
- ❖ To develop alliance with world class R&D organizations and educational institutions in India and overseas for teaching, research and consultancy services.
- ❖ To provide the students with academic environment of excellence, leadership, and ethical guidelines needed for lifelong productive career.

### ABOUT THE DEPARTMENT

*Undergraduate education (UG) course B.Tech in Mechanical Engineering is a comprehensive degree program. The goal of the 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 50 students in 2012. 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's 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 completion, Seminars, Workshops, Industrial visit and Guest lecturers which would make them globally competitive as well as students become an 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 Sectors.

## STAFF PUBLICATION AND PARTICIPATION

- Dr. B. Radjaram, has published the article entitled, “Feasibility study of biohydrogen from presumed by USAB process and assessment of operating parameters”, in the Global Nest Journal, 15, No.4, pp 556-563, Greece.
- Mr. H. Vettrivel, Asst Prof., has published the paper on “Experimental study on Solar Flat Plate Collector”, in the proceedings of International Conference on Advances in Mechanical, Automobile & Aerospace Engg. (AMAAE-2013) on 21st & 22nd September, 2013 at JNU, New Delhi.
- Mr. B. Vasanth, Asst. Professor published a paper on “Experimental study on Tribological Characteristics of cylinder Liner and Piston Ring Using Response Surface Methodology” in GSJER, September 15, 2014.
- Mr. H. Vettrivel Asst. Professor has attended the International Conference on “Energy and Environment-GREENTECH” held on September 2014 conducted by NIT Trichy.

## DEPARTMENT ACTIVITIES

- The department organized an industrial visit to “Supreme Industries, Pondicherry” for the second year students on 29th August 2013 and also on 27th September 2013.
- An Industrial visit was arranged at “Pondy Die Casting Pvt ltd, Pondicherry” for the second year students on 3rd October 2013.
- **Dr. T Senthil Velan, Prof., in Mechanical Engineering from Pondicherry Engineering College** delivered a Guest Lecture on “Recent Advances in Engineering Metallurgy” on 7th September 2013.



- The Department organized a guest lecture on “Applied thermodynamics” by **Dr.L. Kumara**

**Raja, Asst. Prof, Pondicherry Engineering College** for the 2nd year Mechanical students on 14th September 2013.



- Industrial visits to “The Pondicherry co-op spinning mills ltd Pondicherry” and to “The Pondicherry co-op Sugar Mills ltd Pondicherry” were arranged for the second year students, on 21st February & 25th March 2014 respectively.
- The Department conducted a Technical Quiz Competitions for the second year students on 30th Jan 2014 and 28th March 2014. The winners were awarded with the cash prizes of Rs 500/-, Rs 300/- and Rs 200 for the 1st, 2nd and 3rd positions respectively.
- **Dr. K. Pitchandi, Prof and Head from Sri Venkateswara College of Engineering, Sriperumbudur,** delivered a **guest lecture on “Fundamentals on Heat Transfer”** on 17th March 2014.



- A guest lecture on “Kinematics of Machinery” by **Dr. B. Prabu, Asst Prof. Pondicherry Engineering College** was organized by the department on 29th March 2014.



## *IEI Chapter Inauguration*

- The Institution of Engineers India, Puducherry MIT Students' Chapter was inaugurated in the Department of Mechanical Engineering at Manakula Vinayagar Institute of Technology, Madagadipet, Puducherry on 19-02-2014.
- Sri. A. Natarajan, Ex-Chairman- confederation of Indian Industry (CII), Ex- Vice President- operations, Sundaram Fasteners Ltd & MD Unistrong Engineers Pvt Ltd, Bangaluru, was the chief guest of the program and inaugurated the students' chapter.
- Dr. Ethirajulu, Former Principal of Pondicherry Engineering College & Chairman of Puducherry State Centre (IEI), was the guest of honor



- A Value added course on C, C++ was conducted for the 2nd year Mechanical students from 2nd to 14th December 2013.

## **STUDENT ACTIVITIES**

- Mr. S. Nirmal and Mr. S. Niranjana of 2nd year Mechanical Engineering won First prize in the event

“TECH TALK” in WOOTZ 5- ANational Level Technical Symposium, jointly organized by the Indian Institute of metals and Department of Metallurgical Engineering of PSG College of Technology, Coimbatore.



- The Institution of Engineers India, Puducherry, MIT Students Chapter organized Technical Quiz Competitions in the month of July and August 2014, for the Third Year Mechanical Engineering students.
- Four days training program on “Soft Skills and Personality Development” was organized by SEED groups for the Third year Mechanical Engineering Students.
- The Department has organized an Industrial Visit for Third year Mechanical Engineering Students to M/s HMT Machine Tools Ltd, Kerala.
- An Industrial Visit has been arranged for second year mechanical engineering students to M/S Pulkit Steel Rolling Mills, Puducherry and M/s Appasamy Ocular Devices, Puducherry.
- Poster competition was conducted on the theme “Making Indian Engineering World Class” by the Institution of Engineers India, Puducherry MITs Mechanical Engineering students Chapter.
- MR. V. Sivasubramanian and A. Sriram Third year, participated in paper presentation “NEBULA 2K14” a National level Technical Symposium, conducted by IETE students forum(ISF), Rajiv Gandhi College of Engineering and Technology.



- Mr. V. Sivasubramanin and A. Sriram, Third year presented a paper titled as “Hydrogen and Alternate Fuel” in National Level Symposium iTECH FEST’ 14 held on September 2014 organised by IFET college of engineering.
- Mr. V. Sivasubramanin, A. Sriram and J.Sudharsan Third year participated in National Level Project contest “INNOVATOR’s Day 2014” organized by Srui Manakula Vinayagar Engineering College, Puducherry
- Mr. N. Radjarathname, Second year participated and won championship trophy in National level cricket event conducted by “Global cricket club” Bangalore.

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