

# **PATTUKKOTTAI POLYTECHNIC COLLEGE**

Pattukkottai-614601,Thanjavur

## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **VISION OF THE INSTITUTION**

To step forward towards Educational Excellence by inspiring students to be a competent Engineering profession also serve the need of the industry and the society and create them as an entrepreneur.

### **MISSION OF THE INSTITUTION**

- To impart quality education through demanding academic programs..
- To enhance career opportunities for students through exposure to industry.
- To promote excellence by encouraging creativity, critical thinking and discipline
- To inculcate sensitivity toward society and a respect for the environment

### **DEPARTMENT VISION & MISSION STATEMENT**

#### **VISION OF THE DEPARTMENT**

“To develop globally competent Mechanical Engineering professionals with creativeness, innovativeness and entrepreneurship skills to develop out-of-the-box thinking respond effectively to the needs of the industry”

#### **MISSION OF THE DEPARTMENT**

**M1:** To provide a conducive environment to the students to hone up their technical skills by imparting quality education

**M2 :** To create excellent student centric and supportive environment in the department.

**M3:** To bond strong relationship with industries to upgrade the knowledge of the students through exposure for cutting edge technologies

**M4:** To conduct skill development programmes to mold them employable and as an entrepreneur

#### **PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

**PEO1:** The graduates of Mechanical Engineering will develop an attitude of lifelong learning for sustained career advancement and adapt to the changing multidisciplinary profession.

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## DEPARTMENT OF MECHANICAL ENGINEERING

**PEO2:** The graduates of Mechanical Engineering will demonstrate managerial and leadership skills for career and starting up own firms

**PEO3:** The graduates of Mechanical Engineering will develop cost effective and eco-friendly mechanical components and systems needed for the industry and society

### PROGRAM SPECIFIC OUTCOMES [PSOS]

**PSO1:** Apply the appropriate techniques and modern engineering hardware and software tools in mechanical engineering to engage in life -long learning and successfully adapt in multidisciplinary environments.

### PROGRAM OUTCOMES (POs)

Diploma Graduates will be able to:

- 1. Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- 2. Problem analysis:** Identify and analyses well-defined engineering problems using codified standard methods.
- 3. Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- 4. Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- 5. Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
- 6. Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
- 7. Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.