

## DIPLOMA IN MECHANICAL ENGINEERING

### Department Vision:

"To prepare students for rapidly changing needs of mechanical engineering field by implementing excellent technical education practices."

### Department Mission:

- To accomplish rapidly changing technical diversity of mechanical engineering through excellent teaching learning process.
- To cater excellent skills in students for sustainable empowerment.
- To develop human, socio-ethical values and entrepreneurship skills among Mechanical engineering students.

### Programme Educational Objectives (PEOs)

(What s/he will continue to do even after 3-5years of working in the industry)

**PEO1.:** Provide socially responsible, environment friendly solutions to Mechanical engineering related broad-based problems adapting professional ethics.

**PEO2.:** Adapt state-of-the-art Mechanical engineering broad-based technologies to work in multi-disciplinary work environments.

**PEO3.:** Solve broad-based problems individually and as a team member communicating effectively in the world of work.

### Program Outcomes (POs)

(What s/he will be to do at the entry point of industry soon after the diploma programme)

**P01.:** Basic knowledge: Apply knowledge of basic mathematics, sciences and basic engineering to solve the broad-based Mechanical engineering problems.

**P02.:** **Discipline knowledge:** Apply Mechanical engineering knowledge to solve broad-based mechanical engineering related problems.

**P03.:** **Experiments and practice:** Plan to perform experiments and practices to use the results to solve broad-based Mechanical engineering problems.

**P04.:** **Engineering tools:** Apply relevant Mechanical technologies and tools with an understanding of the limitations.

**P05.:** **The engineer and society:** Assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to practice in field of Mechanical engineering.

**P06.:** **Environment and sustainability:** Apply Mechanical engineering solutions also for sustainable development practices in societal and environmental contexts.

**P07.:** **Ethics:** Apply ethical principles for commitment to professional ethics, responsibilities and norms of the practice also in the field of Mechanical engineering.

**P08.: Individual and team work:** Function effectively as a leader and team member in diverse/ multi disciplinary teams.

**P09.: Communication:** Communicate effectively in oral and written form.

**P010.: Life-long learning:** Engage in independent and life-long learning activities in the context of technological changes also in the Mechanical engineering and allied industry.

**Program Specific Outcomes (PSOs)**

(What s/he will be to do in the Mechanical engineering specific industry soon after the diploma programme)

**PSO1.: Modern Software Usage:** Use latest Mechanical engineering related software for simple design, drafting, manufacturing, maintenance and documentation of mechanical engineering components and processes.

**PSO2.: Equipment and Instruments:** Maintain equipment and instruments related to Mechanical Engineering.

**PSO3.: Mechanical Engineering Processes:** Manage Mechanical engineering processes by selecting and scheduling relevant equipment, substrates, quality control techniques, and operational parameters.