Veermata Jijabai Technological Institute

Mechanical Engineering Diploma (DME)

Program Educational Objectives (PEOs)

1. To utilize practical skills in addition to adequate levels of theoretical skills while interacting with mechanical systems, processes and materials used in industrial environment.
2. To develop skills for understanding latest technologies that is evolved during industrial growth process.
3. To accept challenges in technologies and strive for achieving them within set time frames.
4. To take interest in acquiring additional knowledge of higher levels, while using the strongly built foundation by this institute.
5. To acquire additional skills from other disciplines and get a status of resourceful and utility

Program Specific Outcomes (PSOs)

1. Apply concepts in science and engineering to understand the workingof mechanical systems.
2. Improvise ways and means to design new mechanical systems and maintainexisting ones as per requirements by selecting available resources like materials and procedures.
3. Innovate in the use of available mechanical knowledge while solving the needs ofthe society by way of mechanization.
4. Imagine shapes and sizes of intricate machine components, put theinformation in drawing form and use it as a language of communication while analyzingdesign and manufacturing procedures.
5. To develop an ability to work under challenging conditions in terms of time, comfort, physical and mental stresses, etc. to be able to cope with outside world.

Program Outcome (POs)

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 analyse 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.