



Techno-Social Excellence
Marathwada Mitra Mandal's
INSTITUTE OF TECHNOLOGY (MMIT)
Lohgaon, Pune-411047.

“Mechanized Design Application”
Department of Mechanical Engineering

Course Name: Project Based Learning - II
Class: SE Mechanical Engineering
Course Code: 202052 (2019 Pattern)

Course Objectives:

1. To emphasize project based learning activities that are long-term, interdisciplinary and student-centric.
2. To inculcate independent and group learning by solving real world problems with the help of available resources.
3. To be able to develop applications based on the fundamentals of mechanical engineering by possibly applying previously acquired knowledge.
4. To get practical experience in all steps in the life cycle of the development of mechanical systems: specification, design, implementation, and testing.
5. To be able to select and utilize appropriate concepts of mechanical engineering to design and analyze selected mechanical system.

Course Outcomes:

- CO1. PERFORM welding using TIG/ MIG/ Resistance/Gas welding technique
- CO2. MAKE Fibre-reinforced Composites by hand lay-up process or spray lay-up techniques
- CO3. PERFORM cylindrical/surface grinding operation and CALCULATE its machining time
- CO4. DETERMINE number of indexing movements required and acquire skills to PRODUCE a spur gear on a horizontal milling machine
- CO5. PREPARE industry visit report
- CO6. UNDERSTAND procedure of plastic processing