



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

“Mechanized Design Application”
Department of Mechanical Engineering

Course Name: Machine Shop
Class: SE Mechanical Engineering
Course Code: 202051 (2019 Pattern)

Course Objectives:

1. To understand the basic procedures, types of equipment, tooling used for sand casting and metal forming processes through demonstrations and/(or) Industry visits..
2. To understand TIG/ MIG/ Resistance/Gas welding welding techniques.
3. To acquire skills to handle grinding and milling machine and to produce gear by milling.
4. To acquire skills to produce a composite part by manual process.

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