



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

“Mechanized Design Application”
Department of Mechanical Engineering

Course Name: Geometric Dimensioning and Tolerancing Lab
Class: SE Mechanical Engineering
Course Code: 202045 (2019 Pattern)

Course Objectives:

1. To understand requirements of industrial drawings
2. To read, understand and explain basic Geometric Dimensioning & Tolerancing concepts
3. To apply various geometric and dimension tolerances based on type of fit
4. To include surface roughness symbols based on manufacturing process
5. To measure and verify position tolerances with applied material conditions
6. To understand requirements for manufacturing and assembly

Course Outcomes:

On completion of the course, learner will be able to

CO1. SELECT appropriate IS and ASME standards for drawing

CO2. READ & ANALYSE variety of industrial drawings

CO3. APPLY geometric and dimensional tolerance, surface finish symbols in drawing

CO4. EVALUATE dimensional tolerance based on type of fit, etc.

CO5. SELECT an appropriate manufacturing process using DFM, DFA, etc.