

Engineering Graphics

1.1 Course Number: ME121

1.2 Contact Hours: 0-0-3 Credits: 03

1.3 Semester -offered: 1st Year- even

2. List of Experiments:

1. Introduction to the AutoCAD GUI: Drawing Environment Setup
2. 2D Geometric Construction-Solid objects (Draw tools)
3. 2D Geometric Construction-Dimensioning (Modify tools)
4. 2D Geometric Construction-Hidden lines
5. Projection of Points, Lines, and Planes
6. Orthographic Projection of Solid Objects
7. Isometric Projection of Objects
8. Conversion of Isometric Projections to Orthographic Projection and Vice-Versa
9. 3D Object Construction

3. Readings

3.1 Text Books:

1. Fundamentals of Engineering Drawing: Warren J Luzjader
2. Elementary Engineering: Bhatt ND
3. Elements of Solid Geometry: Guna MK

3.2 Reference Books:

1. 1st Year Engineering Drawing: Parkinson AC
2. Auto CAD, Release Version.30 for Practical Purposes
3. Engineering Graphics – S C Sharma & Naveen Kumar
4. Engineering Drawing – P S Gill
5. Engineering Drawing with Auto-CAD – Parvez, Khan & Khaliq