

Devi Ahilya University, Indore, India Institute of Engineering & Technology				BE I Year (Common to all branches) (Part-Time)				
Subject Code & Name		Instructions Hours per Week		Credits				
MEP2C3: Engineering Drawing		L	T	P	L	T	P	Total
Duration of Theory Paper: 3 Hours		2	1	1	2	1	1	4

Course Objectives: *To understand the concepts of imagining, envisioning and visualizing the objects & machine parts and drawing them with the instruments & tools.*

COURSE CONTENTS

Unit-I

Introduction, need & Classification of Engineering Drawings, Drawing Instruments and their uses, Indian Standards for Drawing, Drawing Sheet Layout, Various conventions used in drawing, Technical Lettering, Dimensioning, Basic Geometrical Constructions. Engineering Scales & Engineering Curves

Unit - II

Orthographic Projections, Isometric Projections, Oblique Projections, Perspective Projections & Missing Views.

Unit - III

Projection of Points, Straight Lines and Plane Surfaces.

Unit - IV

Projection of Solids, Section of Solids & Development of Surfaces.

Unit - V

Interpenetration of Solids / Intersection of Surfaces, Introduction to Computer Aided Drawings, Drawing of Machine elements like Riveted Joints, Screw fasteners and Welded Joints.

BOOKS RECOMMENDED:

- [1] Bhatt N D, *Engineering Drawing*, Charoter Publishing House, Anand, Gujrat
- [2] Agrawal B, and Agrawal C M, *Engineering Drawing*, Tata McGraw-Hill Publishing Company Limited.
- [3] French T E, Vierck C J, Foster R J, *Engineering. Drawing and Graphic Technology* Mc Graw-Hill International, Singapore, Low Price Edition
- [4] Luzadder W J, Duff J M, *Fundamentals of Engineering Drawing*, Prentice- Hall India, New Delhi.
- [5] Dhananjay A Jolhe, *Engineering drawing*, Tata McGraw Hill.
- [6] Shah M B and Rana B C , *Engineering Drawing*, Pearson Education, New Delhi.