

Devi Ahilya University, Indore, India Institute of Engineering & Technology				BE (Common to all branches/ Branch) Semester- A/B,B/A			
Subject Code & Name	Instructions Hours per Week			Credits			
	L	T	P	L	T	P	Total
MDR2C3 Engineering Drawing	2	1	4	2	1	2	5
Duration of Theory Paper: 3 Hours							

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.

Text Books

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.

References Books

1. French T E, Vierck C J, Foster R J, *Engineering. Drawing and Graphic Technology* Mc Graw-Hill International, Singapore, Low Price Edition.
2. Luzadder W J, Duff J M, *Fundamentals of Engineering Drawing*, Prentice- Hall India, New Delhi.
3. Dhananjay A Jolhe, *Engineering drawing*, Tata McGraw Hill.
4. Shah M B and Rana B C , *Engineering Drawing*, Pearson Education, New Delhi.