

ENGINEERING DRAWING AND GRAPHICS (ME-111)

Pre-requisite: None

Credit Hours: 02

Contact Hours: 32

RECOMMENDED BOOK(S)

Engineering Drawing by N. D. Bhatt.

Practical Geometry & Engineering Graphics by Abbot.

REFERENCE BOOK(S)

Technical Graphics Communication by BertolineWiebe, Miller.Mohler, Irwin McGraw-Hill.

COURSE OBJECTIVES

To inculcate in students the ability to comprehend the science of Engineering Drawing so that they are able to convey their creative ideas effectively.To provide the link from conventional 2D drawings.

S. No.	CLO/PLOS MAPPING	DOMAIN	PLO
1	Define the fundamentals of engineering drawing and graphics.	C1	01
2	Describe the concepts of projection of points, lines, planes and solids.	C2	01
3	Explain orthographic projections, isometric views, and sectional views of different mechanical parts, and development of surfaces.	C2	01

COURSE CONTENTS

Introduction / Role of graphics in engineering

Projections Theory

Orthographic Projections

Orthographic Reading

Dimensioning

Projection of Points

Projection of Lines

Projection of Planes

Projection of Solids

Section Views

Dimensioning and tolerance

Threaded Fasteners (Threads)

Threaded Fasteners (Nut, Bolts and Washers)

Working drawings

Isometric Projections

Development of surfaces