

MEP-102-A	Engineering Drawing	L	T	P	Cr
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SECTION: A

UNIT-I

Introduction to engineering drawing

Definition of engineering drawing, Brief description of drawing sheets, title block, scales, line types & their uses, Drawing standards used for dimensioning, arrowheads. Letters & numerals writing. Various types of projections, first and third angle systems of orthographic projections, standard symbol used for first & third angle projection

UNIT-II

Projections of a point & a straight line

Projections of a point in all quadrants, projections of a straight line for parallel, perpendicular & inclined to horizontal and vertical reference planes.

UNIT-III

Projections of planes

Projection of various type of planes like circular, triangular, square, pentagonal & hexagonal shape with surface parallel, perpendicular & inclined to the horizontal & vertical plane

SECTION: B

UNIT-IV

Projections of solids

Projection of various type of solids like Cylinder, Cone, Prisms & Pyramid with axis parallel, perpendicular & inclined to both horizontal & vertical reference planes.

UNIT-V

Sections of Solids & Surface development

Section planes, Sectional views, True shape of Sections for Prism, Cylinder, Pyramid, Cone & cube with surface development.

UNIT-VI

Orthographic Projections

Simple objects and simple machine components like Bolts and Screw etc.

Text Book

1. Engineering Drawing Plane and Solid Geometry : N.D. Bhatt and V.M. Panchal, Forty-Fourth Edition 2002, Charotar Publishing House
2. Engineering Drawing : Laxmi Narayan and Vaishwanar, Charotar Publishing House
3. Engineering Graphics and Drafting : P.S. Gill, Milenium Edition, S.K. Kataria and Sons.

Reference Books :

1. A Text Book of Engineering Drawing : S.B. Mathur, Second Revised and Enlarged Edition 2000, Vikas Pu