

CO3			L									M
CO4						L		H	H			L
CO5			L						H			L
CO6			L							H		L

List of Topics Covered	
UNIT-I BASIC CURVES, PROJECTION OF POINTS AND STRAIGHT LINES	9
Conics-construction of ellipse, parabola and hyperbola by eccentricity method - construction of involutes of square and circle-Drawing of tangent and normal to the above curves-Scales-Basic drawing conventions and standards-Orthographic projection principles- Principal planes-First angle projection- Projection of points. Projection of straight lines (only first angle projections) inclined to both the principal planes- Determination of true lengths and true inclinations by rotating line method.	
UNIT-II PROJECTIONS OF PLANES AND SOLIDS	9
Projection of planes (Polygonal and circular surfaces) inclined to both the principal planes. Projection of simple solids like prisms, pyramids, cylinder, cone and truncated solids when the axis is inclined to one of the principal planes by rotating object method	
UNIT-III ORTHOGRAPHIC PROJECTIONS, ISOMETRIC PROJECTIONS & FREE HAND SKETCHING	9
Orthographic projection of Simple parts from 3D diagram-Principles of isometric projection and isometric view-isometric scale- Isometric projections of simple solids and truncated solids- Prisms, pyramids, cylinders, cones.	
UNIT-IV PROJECTION OF SECTIONED SOLIDS AND DEVELOPMENT OF SURFACES	9
Sectioning of solids in simple vertical position when the cutting plane is inclined to the one of the principal planes and perpendicular to the other-obtaining true shape of section. Development of lateral surfaces of simple and sectioned solids- Prisms, pyramids cylinders and cones.	
UNIT-V PERSPECTIVE PROJECTION, BUILDING DRAWING AND COMPUTER AIDED DRAFTING	9
Perspective projection of cubes and cylinders by visual ray method. Introduction- components of simple residential or office building-specifications-plan and elevation of different types of Residential buildings and office buildings. Introduction to drafting packages and basic commands used in AUTO CAD. Demonstration of drafting packages.	