



**Sri Venkateswara University,
Andhra Pradesh B.E./B.Tech
MECH Sem 1 syllabus**

Engineering Graphics

UNIT-I

Scales, plane scale, diagonal scale Practices
Conics- construction of Ellipse, parabola and Hyperbola by eccentricity method
Ellipse- Concentric circles and Oblong methods, Rectangular hyperbola

UNIT-II

Construction of cycloidal curves- epi cycloid and hypocycloid,
Involute- Circle, Polygon

UNIT-III

Projection of points-Principles of Projections, First and Third angle projections, projections of points
Projection of Lines- Projection of straight Lines, lines inclined to one plane and parallel to the other, Lines inclined to both planes, True length and true inclinations, Location of traces

UNIT-IV

Projection of Plane surfaces and solids-Projection of Polygonal surfaces and circular lamina inclined to both planes. Projection of right regular solids- Projection of simple solids such as Prisms, Pyramids, Cylinders and Cones with their axes perpendicular to anyone of the Principal planes and inclined to the other.

UNIT-V

Section of Solids- Sections of above solids in simple vertical position

resting on their base, by cutting planes inclined to one reference plane and perpendicular to the other-True shape of the sections.

Orthographic Projections- Conversion of Pictorial views into orthographic views of simple objects.

Text Books:

1. Bhatt N.D. and V.M. Panchal, Engineering Drawing Revised Edition, Charotar Publications, 2001.
2. Dhananjaya A Jolhe, Engineering Drawing with an introduction to Auto CAD, Tata McGrawhill - 2009
3. K.L.Narayana and P. Kannaih, A text Book of Engineering Drawing, Scitech Publications - 1999.
4. Venugopal,K., Engineering Drawing and Graphics, New Age International Publishers