

ME151 ENGINEERING GRAPHICS

CREDITS = 6 (L=2, T =0, P=4)

Sr no	Topic	No of lectures
1.	Types of lines, lettering and dimensioning; Geometrical constructions	***
2.	Orthographic Projection : Introduction, First angle & third angle projection concept	2
3.	Scales : Plain scale and diagonal scale	***
4.	Engineering Curves : Conic sections, Cycloidal curves, Involutés & Archimedean spiral	***
5.	Projections of Points	1
6.	Projections of Straight Lines	5
7.	Projections of Planes	3
8.	Projections of Solids : Right & regular Prisms, Pyramids, Cones, Cylinders, Tetrahedrons & Cubes	5
9.	Section of Solids	3
10.	Development of Surfaces	2
11.	Conversion of Pictorial views into orthographic views	***
12.	Introduction to Computer Graphics	***

*** Topics would be covered in the Laboratory classes by the concerned Lab. Teachers.

PRACTICAL PLAN :

It consists of 9 drawing sheets as under :

Sr..	Topic	No. of Lectures
1.	Practice Sheet No. 1 (Containing lines, letters & dimensioning)	Home Work
2.	Practice Sheet No. 2 (Containing geometrical constructions)	Home Work
3.	Scales & Curves	4
4.	Engineering Curves	4
5.	Orthographic views	4
6.	Projections of Lines	4
7.	Projections of Planes	4
8.	Projections of Solids	4
9.	Section of Solids & Development of Surfaces	4

- Teaching pertaining to sheet no. 1 to 5 would be done by the Lab teacher during first 5 turns (10 Hours).
- In addition to the above one turn of 2 hours would be dedicated to Introduction of Computer Graphics.