

PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Mechanical Engineering

Subject Name: - Engg. Graphics & Design

Year/Semester: 1st / 1st

Subject Code: - ME-104

LESSON PLAN (2024-2025)

Sr. No.	Unit No	Lecture No.	Topics To Be Covered	Tentative Date	Covered on
1.	I	1,2	Introduction, COs, Exam Pattern, Drawing instruments and their use, drawing conventions, dimensioning, types of lines,	16/10/2024 23/10/2024	16/10/2024 23/10/2024
2.	I	3-4	Plain Scales –with problems	04/11/2024	04/11/2024
3.	I	5	Diagonal and vernier scales with problems	06/11/2024	06/11/2024
4.	II	6-7	Principles of Orthographic Projections – Conventions, Projections of Points	11/11/2024	11/11/2024
5.	II	8	Projections of Lines parallel to both planes, perpendicular to one plane & parallel to other plane and inclined to one plane & parallel to other plane	14/11/2024	14/11/2024
6.	II	9-11	Projections of Lines parallel to both planes, perpendicular to one plane & parallel to other plane and inclined to one plane & parallel to other plane problems	18/11/2024	18/11/2024
7.	II	12	Projections of lines inclined to both the reference planes	21/11/2024	21/11/2024
8.	II	13	Projections of lines inclined to both the reference planes problems	29/11/2024	29/11/2024
9.	II	14-15	Projections of planes perpendicular to both plane and projections of planes inclined to one plane & parallel to other plane with problems	02/12/2024	02/12/2024
10.	II	16-17	Introduction of solids, terms associated with solids, classification of solids and position of axis of a solid with numerical problems	09/12/2024	09/12/2024
11.	II	18	Solid with axis inclined to both the planes with numerical problems	11/12/2024	11/12/2024
12.	-	19	Sectional views of simple right regular solids like prism, pyramid, Cylinder and Cone.	11/12/2024	11/12/2024
13.	-	20-22	Sectional views of simple right regular solids like prism, pyramid, Cylinder and Cone with numerical problems	12/12/2024	12/12/2024
14.	II	23	Development of surfaces of Right Regular Solids- Prism, Pyramid, Cylinder and Cone	13/12/2024	13/12/2024

15.	II	24-26	Development of surfaces of Right Regular Solids- Prism, Pyramid, Cylinder and Cone	13/12/2024	13/12/2024
16.	III	27-28	Conversion of Isometric Views to Orthographic Views and Vice-versa, Conventions	16/12/2024	16/12/2024
17.	III	29	Conversion of Isometric Views to Orthographic Views and Vice-versa, Conventions - problems	18/12/2024	18/12/2024
18.	III	30	Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions	19/12/2024	19/12/2024
19.	III	31	Isometric Views of lines, Planes, Simple and compound Solids, Conic sections including the Rectangular Hyperbola, Conic sections including the Rectangular Hyperbola	20/12/2024	20/12/2024

Topics covered beyond syllabus

Sr. No.	Topics Beyond Syllabus	Action Taken
1	Addition of different types of lines and sizes of drawing boards and drawing sheets and various types of section come under SP-46	Discussion
2	Addition of classification of various types of projections	Discussion
3	Orthographic projection of nut and bolt	YouTube video