

# PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

## Department of Mechanical Engineering

Faculty Name: - Gourve Goyal  
Year/Semester: 1<sup>st</sup> / 2<sup>nd</sup> Sem

Subject Name: - Engg. Graphics & Design  
Subject Code: - ES-109A

### LESSON PLAN

Sr. No.	Lecture No.	Description of Topic	Dilivered date	Methdology	CO
1	T1-3	<b>Unit-1:</b> Introduction about subject, Introduction,Size of drawing sheets, Board, Type of Pencil, Types of line	13/2/2024 14/2/2024 16/2/2024	Discussion with students	CO1
2	L1	Syllabus,Cos,Exam patteren	14/2/2024	Lecture on Whiteboard	
3	T4-6	Title box, Types of projection, Lettering, Drawing Instruments, Introduction Of scale and types of scale, Plain scale numerical	20,21,23/2/2024	Lecture on Whiteboard	
3	L2	Vernier scale	21/2/24	Lecture on Whiteboard	
4	T7-9	Numerical on vernier scale	27/2/2024 28/2/2024 1/3/2024	Lecture on Whiteboard	
5	L3	Conic section:- Cycloid,Epicycloid	28/2/2024	You tube vedios	
6	T10-12	Cycloid,Epicycloid and Hypocycloid numerical problems	12,13,15/3/2024	Lecture on Whiteboard	
7	L4	Parabola Hperbola	13/3/2024	Lecture on Whiteboard	
8	T13-15	Parabola,Hyperbola ellipse and involute numerical problems	19,20,22/3/2024	Flip learning	
9	L5	<b>Unit-II:</b> Projection of points	20/3/2024	Flip learning	
Sessional 1(29/3/2024)					
10	T16-18	Principles of Orthographic Projections – Conventions, Drawing sheet no 5 based on projection of points	9,10,12/4/2024	Lecture on Whiteboard	

11	L6	Projection of line first five cases	03/04/2024	Lecture on Whiteboard	
12	T19-21	Drawing sheet no 6 based on Projections of Lines parallel to both planes and perpendicular to one plane & parallel to other plane and inclined to one plane & parallel to other plane	23,24,26/4/2024	Flip learning	
13	L7	Projections of lines inclined to both the reference planes	24/4/2024	Lecture on Whiteboard	
14	T22-24	Drawing sheet no 7 based on Projections of lines inclined to both the reference planes	30/4/2024 1/5/2024 3/5/2024	Lecture on Whiteboard	
15	L8	Introduction of Projection of plane first Four cases	29/4/2024	Flip learning	
Sessional 2(6/5/2024)					
16	T25-27	Drawing sheet no 8 based on Projection of plane	14,15 & 17/5/2024	Flip learning	
17	L9	Basic introduction about projection of solid	1/5/2024	Lecture on Whiteboard	
18	T 28-30	Drawing sheet no 9 based on Solid with axis parallel to both planes, axis inclined to one plane & parallel to other plane and axis inclined to both the planes with numerical problems	3/5/2024	3D Models	
19	L10	Projection of solid inclined to one plane	15/5/2024	Lecture on Whiteboard	
Sessional Exam 1 (18,20 & 21/12/2021)					
20	T31-33	Drawing sheet no 10 based on Solid with axis parallel to both planes, axis inclined to one plane & parallel to other plane and axis inclined to both the planes with numerical problems	7/5/2024	Used 3D Models	
21	L11	<b>Unit-III</b> Sectional views of simple right regular solids	15/5/2024	Lecture on Whiteboard	CO4

		like prism, pyramid, Cylinder and Cone.			
22	T 34-36	Drawing sheet no 11 based on Development of surfaces of Right Regular Solids- Prism, Pyramid, Cylinder and Cone	15/5/2024	Flip learning	
23	L12	Basic introduction about section of solid	21/5/2024	Used 3D models	CO4
24	T 37-39	Drawing sheet no 12 based on Sectional views of simple right regular solids like prism, pyramid, Cylinder and Cone with numerical problems	21/5/2024	Lecture on Whiteboard	CO5
28	T 40-42	<b>Unit-IV</b> : Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions, Isometric Views of lines, Planes, Simple and compound Solids	22/5/2024	PPT'S	
30	T43-45	Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions, Isometric Views of lines, Planes, Simple and compound Solids	22/5/2024	PPT'S	
Sessional 2(22,24,25/01/2022)					
<b>Gap</b>	<b>Addition of different types of lines and sizes of drawing boards and drawing sheets and various types of section come under SP-46</b>			<b>Lecture</b>	
<b>Gap</b>	<b>Addition of classification of various types of projections</b>			<b>Lecture</b>	
Sessional 3(28/5/2024)					

**GOURVE GOYAL**  
(Subject Incharge)