

PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Mechanical Engineering

Faculty Name: - Gourve Goyal

Subject Name: - Engg. Graphics & Design

Year/Semester: 1st / 1st

Subject Code: - ES-109A

LESSON PLAN

Sr. No.	Lecture No.	Description of Topic	Tentative date	Methodology	CO
1	L1	Syllabus, Cos, Exam pattern	13/10/2021	Discussion with students	CO1
2	L2	Unit-1: Introduction, Size of drawing sheets, Board, Type of Pencil, Types of line	14/10/2021	Lecture on Whiteboard	
3	L3	Title box, Types of projection, Lettering, Drawing Instruments	19/10/21	Lecture on Whiteboard	
4	L4	Introduction Of scale and types of scale	20/10/2021	Lecture on Whiteboard	
5	L5	Plain scales and its Numerical	21/10/2021	You tube vedios	
6	L6	Diagonal scale with numerical problems	25/10/2021	Lecture on Whiteboard	
7	L7	Vernier scale with numerical problems	26/10/2021	Lecture on Whiteboard	
8	L8	Revision of plain diagonal and Vernier scale	27/10/2021	Flip learning	
9	T1-3	Drawing sheet no 1 based on scale	8/11/2021 9/11/2021 10/11/2021	Flip learning	
10	L9	Unit-II: Principles of Orthographic Projections – Conventions, Projection of Points	11/11/2021	Lecture on Whiteboard	CO2
11	L10	Numerical practice on projection of points	15/11/2021	Lecture on Whiteboard	
12	T4-6	Drawing sheet no 2 based on Projection of points	16/11/2021 17/11/2021 18/11/2021	Flip learning	

13	L11	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	22/11/2021	Lecture on Whiteboard	
14	L12	Projections of lines inclined to both the reference planes	29/11/2021	Lecture on Whiteboard	
15	T7-9	Drawing sheet no 3 based on Projection of line based on 1 st five cases	30/11/2021 2/12/2021 1/12/2021	Flip learning	
16	T10-12	Drawing sheet no 4 based on Projections of lines inclined to both the reference planes	6,7 & 8/12/2021	Flip learning	
17	L13	Numerical practice on Projection of line	9/12/2021	Lecture on Whiteboard	
18	T 13-15	Revision Classes for sessional 1.	13,14,15/12/2021	Lecture on Whiteboard	
19	L14	Revision of projection of points, scale and line	16/12/2021	Lecture on Whiteboard	
Sessional Exam 1 (18,20 & 21/12/2021)					
20	T16-18	Projection of plane first Four cases	22/12/2021	Used Models	
21	L15	Projection Of plane parallel to HP and perpendicular to VP and vice versa	23/12/2021	Lecture on Whiteboard	
22	T 19-21	Drawing sheet no 5 based on Projection of Plane	27,28,29/12/2021	Flip learning	
23	L16	Projection of solid :-Solid with axis perpendicular to one plane & parallel to other plane with numerical problems	30/12/2021	Used 3D models	
24	T 22-24	Drawing sheet no 6 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	3,4,5/01/2022	Flip learning	

25	L17	Unit-III: Sectional views of simple right regular solids like prism, pyramid, Cylinder and Cone.	6/01/2022	Used 3D models	CO3
26	T 25-27	Drawing sheet no 7 based on Sectional views of simple right regular solids like prism, pyramid, Cylinder and Cone with numerical problems	10,11,12/01/2022	Lecture with Power point presentation on teams	
27	L18	Development of surfaces of Right Regular Solids- Prism, Pyramid, Cylinder and Cone	13/01/2022	Lecture with Power point presentation on teams	CO4
28	T 28-30	Drawing sheet no 8 based on Development of surfaces of Right Regular Solids- Prism, Pyramid, Cylinder and Cone	17,18,19/01/2022	Lecture with writing pad on teams	
29	L19	Unit-IV : Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions, Isometric Views of lines, Planes, Simple and compound Solids	20/01/2022	Lecture with Writing pad on teams	CO5
Sessional 2(22,24,25/01/2022)					
30	T31-33	Drawing sheet no 9 based on isometric to Orthographic projection	31/1/2022,01/02/2022, 02/02/2022	Flip learning	
31	L20	Conversion of Isometric Views to Orthographic Views and Vice-versa, Conventions	03/02/2022	You tube vedios	
32	T34-36	Isometric view of plane and solid	07/02,08,09	Lecture with Writing pad on teams	
32	L21	Revision of sessional paper	10/2/2022	Lecture with Writing pad	
33	T37-39	Conic section parabola, hyperbola, ellipse	14/2/2022,15,16	You tubes vedios	CO1
34	L22	Prac. On Previous year question paper	17/2/2022	Lecture with Writing pad	
34	T40-42	Drawing sheet no 10 based on Conic sections including the Rectangular Hyperbola,	21,22,23/02/2022	Lecture with Writing pad	

		Parabola, ellipse, cycloid			
35	L23	Prac. On Previous year question paper	24/02/2022	Lecture	
	Gap	Addition of different types of lines and sizes of drawing boards and drawing sheets and various types of section come under SP-46		Lecture	
	Gap	Addition of classification of various types of projections		Lecture	
Sessional 3					

GOURVE GOYAL
(Subject Incharge)