PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Mechanical Engineering

SESSION 2022-2023(EVEN SEMESTER)

Faculty Name: - Gourve Goyal **Subject Name: - Engineering Graphics & Design**
Year/Semester: 1st / 2nd **Subject Code: - ES-109A**

LESSON PLAN(G section)

Sr. No.	Lecture No.	Description of Topic	Tentative date	Methodology	CO
1	L1	Syllabus, Cos, Exam pattern	16/2/2023	Discussion with students	CO1
2	T1-3	Introduction, RF, plain scale	16 & 17/2/2023	Lecture on Whiteboard	
3	L2	**Unit-1:** Introduction, Size of drawing sheets, Board, Type of Pencil, Types of line, Title box, Types of projection, Lettering, Drawing Instruments	2/3/2023	Lecture on Whiteboard	
4	T4-6	Introduction Of scale and types of scale, Plain scales and its Numerical	1,2 &3/3/23	Lecture on Whiteboard	
5	L3	Introduction of diagonal scale and Vernier scale	9/3/2023	Lecture on Whiteboard	
6	T7-9	Diagonal and Vernier scale and its Numerical	9&10/3/2023	You tube Videos	
7	L4	Revision of plain, diagonal and Vernier scale	16/3/2023	Lecture on Whiteboard	
8	T10-12	Numerical on scales	15,16 &17/3/2023	Lecture on Whiteboard	
9	L5	Conic section(cycloid and epicycloids)	23/3/2023	Lecture on Whiteboard	
10	T13-15	Cycloid,	22,23&24/3/2023	Flip learning	

		epicycloids, hypocycloid			
11	T16-18	Numerical on cycloid, epicycloids and hypocycloid	31/3/2023	Lecture on Whiteboard	
12	L6	Involute, parabola and hyperbola	6/4/2023	Lecture on Whiteboard	
13	T19-21	Numerical on Involute, parabola, Ellipse and hyperbola	5,6 &7/2023	You tube videos	
14	L7	**Unit-II**: Principles of Orthographic Projections – Conventions, Projection of Points	13/4/2023	Lecture on Whiteboard	CO2
15	T22-24	Numerical practice on projection of points	12,13&14/4/2023	Lecture on Whiteboard	
16	L8	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	20/4/2023	Flip learning	
17	T25-27	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	19,20&21/4/2023	Lecture on Whiteboard	

18	L9	Projections of lines inclined to both the reference planes	27/4/2023	Lecture on Whiteboard	
19	T28-30	Numerical on Projections of lines inclined to both the reference planes	26,27 &28/4/2023	Flip learning	
20	L10	Introduction of plane Projection Of plane parallel to HP and perpendicular to VP and vice versa	4/5/2023	Flip learning	
21	T31-33	Numerical practice on Projection of plane	4,5/5/2023	Used 2D models	
22	L11	Projection of solid :-Solid with axis perpendicular to one plane & parallel to other plane with numerical problems	11/5/2023	Lecture on Whiteboard	
23	T34-36	Projection of solid :-Solid with axis perpendicular to one plane & parallel to other plane with numerical problems	10,11&12/5/2023	Lecture on Whiteboard	
24	L12	Drawing sheet based on Solid with axis parallel to both planes, axis inclined to	18/5/2023	Used Models	

		one plane & parallel to other plane and axis inclined to both the planes with numerical problems			
25	T37-39	**UNIT-III** Sectional views of simple right regular solids like prism, pyramid, Cylinder and Cone.	17,18&19/5/2023	Lecture on Whiteboard	CO3
26	L13	Development of surfaces of Right Regular Solids-Prism, Pyramid, Cylinder and Cone	25/5/2023	Flip learning	CO4
27	T40-42	Drawing sheet on Development of surfaces of Right Regular Solids-Prism, Pyramid, Cylinder and Cone	24,25&26/5/2023	Used 3D models	
28	L14	**Unit-IV :** Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions, Isometric Views of lines, Planes, Simple and compound Solids	1/6/2023	Flip learning	CO5
29	T43-45	Drawing sheet based on isometric to Orthographic projection vice-versa	1&2/06/2023	Used 3D models	
30	L15	Practice On Previous year question paper	8/06/2023	Lecture with Power point presentation on teams	

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 on 7,8 9/6/2023**	
Gap	**Addition of classification of various types of projections**		

GOURVE GOYAL
(Subject Incharge)