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.	Lecture	Description of	Tentative date	Methodology	СО
No.	No.	Topic	Tentadive date		
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 Numerical on cycloid, epicycloids and hypocycloid Involute, parabola and hyperbola epicycloids, and hypocycloid Lecture 31/3/2023 Whitele	board
Numerical on cycloid, epicycloids and hypocycloid Involute, parabola and hyperbola Numerical on cycloid 31/3/2023 Whitelest State of the cycloid and hypocycloid Univolute, parabola and hyperbola	board
11 T16-18 cycloid, epicycloids and hypocycloid 12 L6 parabola and hyperbola Cycloid, epicycloids and hypocycloid Involute, parabola and hyperbola Mhiteleman Street St	board
epicycloids and hypocycloid Involute, parabola and hyperbola S1/3/2023 Lecture 6/4/2023 Whitel	
hypocycloid Involute, parabola and hyperbola hypocycloid Lectur 6/4/2023 Whitel	re on
Involute, parabola and hyperbola Lecture Whitel	re on
12 L6 parabola and 6/4/2023 Whitel	re on
hyperbola	ic on
7.2	board
Numerical on You	tube
13 T19-21 Involute, 5,6 &7/2023 vide	eos
parabola, Ellipse	
and hyperbola	
Unit-II: Lectur	re on CO2
Principles of Whitel	board
Orthographic	Joura
14 L7 Projections – 13/4/2023	
Conventions,	
Projection of	
Points	
Numerical Lectur	re on
nractice on William	
15 T22-24 practice on 12,13&14/4/2023 Whitel	board
points	
Projections of Flip lea	arning
Lines parallel to	
both planes and	
perpendicular to	
one plane &	
16 L8 parallel to other 20/4/2023	
plane and	
inclined to one	
plane & parallel	
to other plane Projections of Lecture	re on
Lines parallel to White	board
both planes and	
perpendicular to	
17 T25-27 one plane & 19,20&21/4/2023	
parallel to other	
plane and	
inclined to one	
plane & parallel	
to other plane	

		Projections of		Lecture on
18	L9	lines inclined to	27/4/2023	Whiteboard
		both the	21/4/2023	
		reference planes		
19		Numerical on		Flip learning
	T28-30	Projections of		
		lines inclined to	26,27 &28/4/2023	
		both the		
		reference planes		
		1		
		Introduction of		Flip learning
		plane Projection		
		Of plane parallel		
20	L10	to HP and	4/5/2023	
		perpendicular to		
		VP and vice		
		versa		
		Numerical		Used 2D
21	T31-33	practice on	4,5/5/2023	models
21	131-33	Projection of	4,3/3/2023	
		plane		
		Projection of		Lecture on
		solid :-Solid with		Whiteboard
		axis		
		perpendicular to		
22	L11	one plane &	11/5/2023	
		parallel to other		
		plane with		
		numerical		
		problems		
		Projection of		Lecture on
		solid :-Solid with		Whiteboard
		axis		
		perpendicular to		
23	T34-36	one plane &	10,11&12/5/2023	
		parallel to other		
		plane with		
		numerical		
		problems		
	L12	Drawing sheet		Used Models
		based on Solid		
24		with axis parallel	18/5/2023	
		to both planes,		
		axis inclined to		
	<u> </u>	1 .55		

		one plane 0-			
		one plane &			
		parallel to other			
		plane and axis			
		inclined to both			
		the planes with			
		numerical			
		problems			
		UNIT-III			
		Sectional views			CO3
		of simple right		Lecture on	CO3
25	TP27, 20	regular solids	17.100.10/5/2022	Lecture on	
25	T37-39	like prism,	17,18&19/5/2023	Whiteboard	
		pyramid,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Cylinder and			
		Cone.			
				Elia la	CC 4
		Development of		Flip learning	CO4
26	L13	surfaces of Right Regular Solids-	25/5/2023		
20	11.5	Prism, Pyramid,	25/3/2023		
		Cylinder and Cone			
		Drawing sheet on		Used 3D	
		Development of			
		surfaces of Right		models	
27	T40-42	Regular Solids-	24,25&26/5/2023		
		Prism, Pyramid,			
		Cylinder and Cone			
		Unit-IV :		Flip learning	CO5
		Principles of		The remaining	
		Isometric			
		projection –			
28	L14	Isometric Scale,	1/6/2023		
20	T14	Isometric Views,	1/0/2023		
		Conventions,			
		Isometric Views			
		of lines, Planes,			
		Simple and			
		compound Solids			
		Drawing sheet		Used 3D	
2.0	m 42 47	based on isometric	4.0.5 10.5 15.5	models	
29	T43-45	to Orthographic	1&2/06/2023		
		projection vice-			
		versa			
		Duration		Lecture with	
30	L15	Practice On	8/06/2023	Power point	
30	113	Previous year	0,00,2023	presentation on	
		question paper		teams	
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	Addition of different types of lines and Lectu		
<i>C</i>	sizes of drawing boards and drawing	7,8 9/6/2023	
Gap	sheets and various types of section come		
	under SP-46		
Com	Addition of classification of various types		
Gap	of projections		

GOURVE GOYAL (Subject Incharge)