GOVT. POLYTECHNIC JAJPUR

A/P-Ragadi,Block-Korei,Dist- Jajpur,Odisha-755019

LESSION PLAN

Name of the Faculty			Er. Saroj Kumar Mishra	
Discipline			Mechnical Engineering	
Semester:			1st	
Subject:			ENGINEERING DRAWING	
Commencement of Classes			25/10/2022-31/01/2023	
No. of Days/Week class alloted			3	
Lesson Plan Duration:			42 Days	
Week	Practical Day		Торіс	
Week1	D1	Unit 1:Intr	oduction to Engineering drawing	
		1.1 Definiti	on of engineering drawing, introduction to drawing	
		instruments,materials,layout and sizes of drawing sheets and boards		
		1.2Engine	ering graph book, different grades of pencils to be used	
	D2	1.3 lying of drawing sheet,margin,standard layout,title block,folding principle		
	D1	Unit2: Typ	es of Lines,Lettering & Dimensioning	
		2.1Demostrate and explain the use of various types of lines.		
		2.2 single	stroke lettering,gothic Lettering & nemerals as per BIS	
Week2	D2	Unit3: Sca	les	
		3.1 Scales-their needs and importances,types of scales,R.F, length of scales		
		3.2 Construction of plain scales		
	D3	3.3 Construction of diagonal scales		
	D1	Unit4: Cur	ves	
		4.1 Explair	n conic section and various terms	
Week3		4.2 eccent	ricity method (Ellipse)	
	D2	4.2 eccentricity method (parabola,hyperbola)		
	D3	4.3 concentric circle method and arc of circle method		
	D1	4.4 rectangle method,Tangent method		
	D2	Unit5: Ort	nographic Projections	
Week4		5.1 1st ang	gle and 3rd angle projection	
		5.2 project	ion of points	
	D3	5.3 projection of straight line		
	D1	5.3 projection of straight line		
Week5	D2	5.4 draw plane figure such as squares,rectangles		
	D3	5.4 triangles,circle		
	D1	5.4 Pentagon and Hexagon		
Week6	D2	5.5 projection of solids such as prism,cylinder		
	D3	5.5 cone,tetrahedron		
	D1	5.5 Pyrami	d	
Week7	D2	Revision a	nd test	
	D3	Unit6: Section & Develoments		

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	D1	6.1 sectional projection &development of Prism		
Week8	D2	6.1 sectional projection &development of Prism		
	D3	6.1 sectional projection &development of cylinder		
	D1	6.1 sectional projection &development of cylinder		
Week9	D2	6.1 sectional projection &development of cone		
	D3	6.1 sectional projection &development of cone		
	D1	6.1 sectional projection &development of pyramid		
Week10	D2	6.1 sectional projection &development of pyramid		
-	D3	6.2 true shape of cutting sections		
	D1	6.2 true shape of cutting sections		
Week11	D2	Unit7: Isometric Projections		
VVEEKII	DZ	7. Fundamentals of isometric projections and isometric scale		
-	D3	7. Isometric views andprojection of regular solids- cylinder,cone with axis vertical		
	D1	7. Isometric views andprojection of regular solids- cylinder,cone with axis horizontal		
Week12	D2	7. Isometric views andprojection of regular solids- prism,pyramid		
	D3	Unit 8: Building Drawing		
	D1	8.1 various components of building and their sizes		
Week13	D2	8.2 drawing plan of single room building with verendah		
	D3	8.2 drawing elevation		
	D1	Unit 9: Practices On Autocaad		
		9.1 settings,limits,units		
Week14		9.2 commands of line, circle, polygon, ellipse, rectangle, edit, dimension, modify commands		
VVEEK14	D2	9.3.1 Orthographic projections of lines using Autocaad		
	D3	9.3.1 Orthographic projections of planes using Autocaad		
		9.3.1 Orthographic projections of solid using Autocaad		
Week15	D1	9.3.2 Isometric projection cone ,cylinder,prism,pyramid.		

Saroj ku. Mishra

Signature of Faculty