

LESSON PLAN(WINTER-2023)

DISCIPLINE: – MINING ENGINEERING		SEMESTER:- 1 ST (1 ST YEAR)	FACULTY:- LOPAMUDRA NAYAK
SUBJECT:- Engineering Drawing		NO. OF CLASSES PER WEEK	SEMESTER : -FROM 16/08/2023 TO 11/12/2023
SUBJECT CODE :- Pr.3a		CLASSES ALLOTTED:- 06	NO. OF WEEKS:- 16
			TOTAL PERIOD:- 84
WEEK	DATE	NO. OF CLASSES	TOPICS TO BE COVERED
1 ST	21.08.2023	4	Briefing of Syllabus, Introduction about subject, Discussion about objectives and Importance of Engineering drawing. CHAPTER 1 :- INTRODUCTION & DEMONSTRATION 1.1 Identify various sizes of drawing boards, drawing sheets as per BIS.
	22.08.2023	2	1.2 List the types of pencils, instruments, and scales (RF). 1.3 Demonstrate lying of drawing sheet, margin, standard layout and title block as per BIS, folding principle of drawings (blue prints, print outs etc).
CHAPTER 2 :- TYPES OF LINES, LETTERING & DIMENSIONING			
2 ND	28.08.2023	4	2.1 Demonstrate and explain the use of various types of lines.
	29.08.2023	2	2.2 Demonstrate the principle of single stroke as per BIS.
3 RD	04.09.2023	4	Demonstrate the principle of gothic lettering & numerals as per BIS.
CHAPTER 3 :- SCALES			
3 RD	05.09.2023	2	3.1 Significance of scales in drawing; different scales.
4 TH	11.09.2023	4	3.2 Define and draw plain scale and diagonal scale.
	12.09.2023	2	REVISION, Checking of Sheet.
CHAPTER 4 :- CURVES			
5 TH	18.09.2023	4	4.1 Explain Conic sections with illustration, Explain terms like focus, vertex, directrix and eccentricity.
6 TH	25.09.2023	4	4.2 Draw conics sections by eccentricity method – Ellipse, Parabola and Hyperbola.
	26.09.2023	2	4.3 Draw Ellipse by concentric circle method and arc of circle method. 4.4 Draw parabola by Rectangle Method and Tangent Method.
7 TH	03.10.2023	2	REVISION, Checking of Sheet.
CHAPTER 5 :- ORTHOGRAPHIC PROJECTIONS			
8 TH	09.10.2023	4	5.1 Demonstrate the principles of 1st angle and 3rd angle projections with the help of models and draw symbols. 5.2 Draw projection of points.
	10.10.2023	2	5.3 Draw projection of straight line (parallel to both planes, parallel to one and perpendicular to other, parallel to one and inclined to other and inclined to both reference planes).
9 TH	16.10.2023	4	5.4 Draw plane figure such as squares, rectangles, triangles, circle, Pentagon and hexagon (perpendicular to one plane and inclined to other).
	17.10.2023	2	5.5 Draw projections of solids such as prism, cylinder, cone, tetrahedron and pyramid in simple position (with axis parallel to one reference plane and perpendicular to other reference plane).
CHAPTER 6 :- SECTION & DEVELOPMENTS			
10 TH	30.10.2023	4	6.1 Draw the sectional projection & development of prism, cylinder, cone and pyramid in simple position by a cutting plane perpendicular to one reference plane and inclined to other reference plane.
	31.10.2023	2	6.2 Draw true shape of the cutting sections.
CHAPTER 7 :- ISOMETRIC PROJECTIONS			
11 TH	06.11.2023	4	Draw isometric view & Isometric projection of prism, pyramid with axis horizontal and vertical with construction of isometric scales.

	07.11.2023	2	Draw isometric view & Isometric projection of cone & cylinder with axis horizontal and vertical with construction of isometric scales.
CHAPTER 8 :- BUILDING DRAWING			
12 TH	13.11.2023	4	8.1 Explain terms related to building drawing.
	14.11.2023	2	8.2 Draw plan, elevation of single room building with verandah (Flat roof according to given line plan and specification).
13 TH	20.11.2023	4	REVISION, Checking of Sheet.
CHAPTER 9 :- PRACTICES ON AUTO CAD			
13 TH	21.11.2023	2	9.1 Introduction-Settings, Limits etc.
			9.2 Auto CAD commands- Draw commands (Line, circle, arc, polygon, ellipse, rectangle). Edit command, Dimension commands and Modify Commands for two dimensional drafting only.
14 TH	28.11.2023	2	9.3 Exercise for practice using Auto CAD.
15 TH	04.12.2023	4	9.3.1 Orthographic projections of lines, planes and solids as per chapter 5.0.
	05.12.2023	2	9.3.2 Isometric projection as per Chapter 7.0.
16 TH	11.12.2023	4	Submission of Drawing sheet. Doubt clearing class.
TOTAL		84	TOTAL REVISION

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14-08-2023

FACULTY
SIGNATURE

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14.8.23

PRINCIPAL
OSME, KEONJHAR