



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
DEPARTMENT OF CIVIL ENGINEERING

Dicipline: All Branch	1st Year	Name of the teaching faculty :- Miss Kuhudi Biswal		
Subject:- Engineering Graphics Lab	No. of Days/week class Allotted :-2	No. of Weeks :-33 SESSION- 2026-2027 STARTING DATE: 17.08.2026 ENDING DATE:		
No. of week	No. of class	Topic to be Taught	Date of Delivery	
			G-1	G-2
1 st	1 st	Introduction to the lab.		
2 nd	2 nd	Identify various sizes of drawing boards, drawing sheets as pr BIS. List the types of pencils, instruments, and scales (RF). Demonstrate lying of drawing sheet, margin, standard layout and title block as per BIS, folding principle of drawings (blue prints, print outs etc).		
3 rd	3 rd	Identify various sizes of drawing boards, drawing sheets as pr BIS. List the types of pencils, instruments, and scales (RF). Demonstrate lying of drawing sheet, margin, standard layout and title block as per BIS, folding principle of drawings (blue prints, print outs etc).		
4 th	4 th	Demonstrate and explain the use of various types of lines. Demonstrate the principle of single stroke, gothic lettering & numerals as per BIS		
5 th	5 th	Demonstrate and explain the use of various types of lines. Demonstrate the principle of single stroke, gothic lettering & numerals as per BIS		
6 th	6 th	Introduction to Dimensioning, Unit of Dimensioning, General Rules for Dimensioning.		
7 th	7 th	Introduction to Dimensioning, Unit of Dimensioning, General Rules for Dimensioning.		
8 th	8 th	Significance of scales in drawing; different scales		
9 th	9 th	Significance of scales in drawing; different scales		
10 th	10 th	Define and draw plain sale and diagonal sale.		
11 th	11 th	Define and draw plain sale and diagonal sale.		
12 th	12 th	Introduction of projections-orthographic, perspective, isometric and oblique: concept and applications		
13 th	13 th	Introduction of projections-orthographic, perspective, isometric and oblique: concept and applications		
14 th	14 th	Introduction to orthographic projection, First angle and Third angle method, their symbols.		
15 th	15 th	Introduction to orthographic projection, First angle and Third angle method, their symbols.		
16 th	16 th	Introduction to orthographic projection, First angle and Third angle method, their symbols.		
17 th	17 th	Introduction to orthographic projection, First angle and Third angle method, their symbols.		
18 th	18 th	Conversion of pictorial view into Orthographic Views – object containing plain surfaces, slanting surfaces, slots, ribs, cylindrical surfaces.		
19 th	19 th	Conversion of pictorial view into Orthographic Views – object containing plain surfaces, slanting		

Kuhudi Biswal
31/8/26

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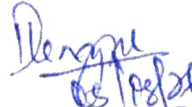
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		surfaces, slots, ribs, cylindrical surfaces.		
20 th	20 th	Conversion of pictorial view into Orthographic Views – object containing plain surfaces, slanting surfaces, slots, ribs, cylindrical surfaces.		
21 st	21 st	Draw isometric view & Isometric projection of prism, pyramid, cone & cylinder with axis horizontal and vertical with construction of isometric scales.		
22 nd	22 nd	Draw isometric view & Isometric projection of prism, pyramid, cone & cylinder with axis horizontal and vertical with construction of isometric scales.		
23 rd	23 rd	Draw isometric view & Isometric projection of prism, pyramid, cone & cylinder with axis horizontal and vertical with construction of isometric scales.		
24 th	24 th	Introduction- Components of AutoCAD software window: Title bar, standard tool bar, menu bar, object properties tool bar, draw tool bar, modify tool bar, cursor cross hair. Command window, status bar, drawing area, UCS icon		
25 th	25 th	Introduction- Components of AutoCAD software window: Title bar, standard tool bar, menu bar, object properties tool bar, draw tool bar, modify tool bar, cursor cross hair. Command window, status bar, drawing area, UCS icon		
26 th	26 th	File features: New file, Saving the file, Opening an existing drawing file, Creating templates, Quit.		
27 th	27 th	File features: New file, Saving the file, Opening an existing drawing file, Creating templates, Quit.		
28 th	28 th	Setting up new drawing: Units, Limits, Grid, Snap. Undoing and redoing action.		
29 th	29 th	Setting up new drawing: Units, Limits, Grid, Snap. Undoing and redoing action.		
30 th	30 th	Draw various entities by using commands (Line, circle, arc, polygon, ellipse, rectangle).		
31 st	31 st	Draw various entities by using commands (Line, circle, arc, polygon, ellipse, rectangle).		
32 nd	32 nd	Edit command, Dimension commands and Modify Commands for two dimensional drafting only		
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Dicipline: All Branch	1 st Year	Name of the teaching faculty :- Miss Kiranbala Behera		
Subject:- Engineering Graphics Lab	No. of Days/week class Allotted :-2	No. of Weeks :-33 SESSION- 2026-2027 STARTING DATE: 17.08.2026 ENDING DATE:		
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