

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session (2021 -2022)

Discipline: Mechanical Engineering	Semester: 1 st , Winter /2021	Name of the faculty: Tushar Kanta Mahapatra Email Id: tushar.mahapatrafme@kp.kiit.ac.in
Subject: Engineering Drawing.	No. of Days/week: 02 (6 periods / week)	Start Date: 25/10/2021 End Date: 10/02/2022

Week	Class Day	Practical Topics
1 st	1st	Identify various sizes of drawing boards, drawing sheets as per BIS. List the types of pencils, instruments, and scales (RF), find the usefulness of Engineering Drawing.
	2nd	Demonstrate lying of drawing sheet margin, standard layout and title block as per BIS
2nd	1st	Drawing draw by students then check the sheet
	2nd	Demonstrate and explain the use of various types of lines. Demonstrate the principle of single stroke, gothic lettering & numerals as per BIS.
3rd	1st	Assignment check Significance of scales in drawing; different scales.
	2nd	Define and draw plain sale and diagonal sale.
4th	1st	Demonstration of questions on Scale
	2nd	Conic sections with illustration Explain terms like focus, vertex, directrix and eccentricity. Draw conics sections by eccentricity method – Ellipse, Parabola and Hyperbola
5th	1st	Draw Ellipse by concentric circle method. Assignment Check
	2nd	Draw Ellipse by Eccentricity Method circle method. Sheet Check
6th	1st	Draw Ellipse by concentric circle method sand arc of cicle method.
	2nd	Draw parabola by Rectangle Method and Tangent Method. Assignment check
7th	1st	Demonstrate the principles of 1 angle and 3 angle projections with the help of models and draw symbols
	2nd	projection of straight line parallel to both planes,
8th	1st	Demonstration with Questions. Assignment check

	2nd	parallel to one and perpendicular to other parallel to one and inclined to other and inclined to both reference planes
9th	1st	Projection of Planes Squares
	2nd	Projection of Planes Rectangles
10th	1st	Projection of Planes Triangles
	2nd	Assignment check Review Class
11th	1st	Sheet Check
	2nd	Pentagon hexagon
12th	1st	Questions for Practice-01
	2nd	Questions for Practice-02
13th	1st	perpendicular to one plane and inclined to other
	2nd	projections of solids prism, projections of solids cylinder cone
14th	1st	projections of solids Tetrahedron and pyramid in impel position
	2nd	Explain terms related to building drawing.
15th	1st	Draw plan, elevation of single room building with verandah (Flat roof according to given line plan and specification).
	2nd	Introduction-Settings, Limits etc. Auto CAD commands- Draw commands (Line, circle, are polygon, ellipse, rectangle). Edit command, Dimension commands and Modify Commands for two dimensional Drafting only. Exercise for practice using Auto CAD.