Discipline :**MECHANICAL ENGG**	Semester :**2ND**	Name of the Teaching Faculty: **BABITA PANDA**
Subject: **ENGINEERING DRAWING**	No. of hours/per week class allotted:**06**	Semester From date : **02.01.2019** To Date:**30.04.2019** No. of Weeks: **15**
Week	Class Day	Theory / Practical Topics
1ST	1ST	1.1 Identify various sizes of drawing boards, drawing sheets as pr BIS.
	2ND	1.2 List the types of pencils, instruments, and scales (RF).
	3RD	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).
2ND	1ST	2.1 Demonstrate and explain the use of various types of lines.
	2ND	2.2 Demonstrate the principle of single stroke lettering as per BIS.
	3RD	Demonstrate the principle of gothic lettering & numerals as per BIS.
3RD	1ST	3.1 Significance of scales in drawing; different scales.
	2ND	3.2 Define and draw plain sale.
	3RD	3.2 Define and draw diagonal sale.
4TH	1ST	4.1 Explain Conic sections with illustration, Explain terms like focus, vertex, directrix and eccentricity.
	2ND	4.2 Draw conics sections by eccentricity method – Ellipse
	3RD	4.2 Draw conics sections by eccentricity method – Parabola
5TH	1ST	4.2 Draw conics sections by eccentricity method –Hyperbola
	2ND	4.3 Draw Ellipse by concentric circle methods and arc of circle method.
	3RD	4.4 Draw parabola by Rectangle Method and Tangent Method.
6TH	1ST	5.1 Demonstrate the principles of 1st angle projections with the help of models and draw symbols.
	2ND	3rd angle projections with the help of models and draw symbols.
	3RD	5.2 Draw projection of points.
7TH	1ST	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).
	2ND	5.4 Draw plane figure such as squares, rectangles, triangles, circle, Pentagon and hexagon (perpendicular to one plane and inclined to other).
	3RD	Draw plane figure such as circle, Pentagon and hexagon (perpendicular to one plane and inclined to other).
8TH	1ST	Drawing continued
	2ND	Drawing continued
	3RD	5.5 Draw projections of solids such as prism, cylinder, cone (with axis parallel to one reference plane and perpendicular to other reference plane).
9TH	1ST	Drawing continued
	2ND	Draw projections of solids such as tetrahedron and pyramid in simple position (with axis parallel to one reference plane and perpendicular to other reference plane).

	3RD	Drawing continued
10TH	1ST	6.1 Draw the sectional projection & development of prism and cylinder in simple position by a cutting plane perpendicular to one reference plane and inclined to other reference plane.
	2ND	Draw the sectional projection & development of cone and pyramid in simple position by a cutting plane perpendicular to one reference plane and inclined to other reference plane
11TH	1ST	Drawing continued
	2ND	Draw the sectional projection & development of cone and pyramid in simple position by a cutting plane perpendicular to one reference plane and inclined to other reference plane
	3RD	Drawing continued
12TH	1ST	6.2 Draw true shape of the cutting sections.
	2ND	Draw isometric view & Isometric projection of prism, pyramid with axis horizontal and vertical with construction of isometric scales.
	3RD	Drawing continued
13TH	1ST	Draw isometric view & Isometric projection of cone & cylinder with axis horizontal and vertical with construction of isometric scales.
	2ND	Drawing continued
	3RD	Drawing continued
14TH	1ST	8.1 Explain terms related to building drawing.
	2ND	8.2 Draw plan, elevation of single room building with verandah (Flat roof according to given line plan and specification).
	3RD	Drawing continued
15TH	1ST	9.1 Introduction-Settings, Limits etc.
	2ND	9.2 Auto CAD commands-Draw commands (Line, circle, are polygon, ellipse, rectangle). Edit command, Dimension commands and Modify Commands for two dimensional drafting only.
	3RD	9.3 Exercise for practice using Auto CAD. 9.3.1 Orthographic projections of lines, planes sand solids as per chapter 5.0. 9.3.2 Isometric projection as per Chapter 7.0.