RGPV (DIPLOMA WING) BHOPAL			OBE CURRICULUM FOR THE COURSE	FORMAT	F-3	Sheet No. 1/3		
Branch	COMN	10N to ALL	Semeste		· //I			
Course Code			Course Name -ENGINEERING DRAWI	NG				
Course Outcome 1		e 1 Prep	Prepare basic engineering drawing formats		Teach Hrs	¹ Marks		
Learning Outcome 1		me 1	Use the drawing instruments properly and improve their lettering and dimensioning skills		10	05		
Contents		shee 1972 Intro Sing	Introduction of drawing instruments, Designation and sizes of drawing sheet and drawing board Planning of drawing sheet as per I.S.: 696- 1972 (SP 46:1988). Introduction of type of lines and their applications. Single stroke vertical capital letters and numerals,					
			Dimensioning:Elements of dimensioning,Dimensioning system. Dimensioning Different geometrical features					
Method Assessm			ernal: Mid Semester Exam - Pen paper te: essment	st/ Drawing	g work			
Learning Outcome 2		me /	Understand the application of Architectural and Engineering Scales.			10		
Contents		redu Class	Scale: Introduction of scales and their applications, Concept of reduced, enlarged and full size scale Classification of scales – plain, diagonal. Definition of R.F. Construction of plain and diagonal scales					
Method Assessm		EXT	ERNAL END SEM EXAM - Drawing work a	ssessment				
Course (Outcom	e 2 Tra	nslate geometrical details into engineer	ing drawin	ıg			
Learning	g Outco	me 3 Drav	v Conic curves, involutes and Cycloid.		15	12		
Content	Geometrical construction & curves: Divide a line into any number of equal parts by parallel line method, Bisecting the line and angle. Construction of triangles and polygons (upto hexagon) Introduction of conic sections (curves), Construction of Ellipse by Eccentricity and Concentric circles methods, Construction of Parabola by Eccentricity and Rectangle methods, Construction of Hyperbola by Eccentricity method, Construction of cycloid ,					-		

	Involutes of circle and polygon.				
	Construction of Archemedian spiral.				
Method of Assessment	External : End semester Examination- Drawing work assessment				
Course Outcome 3	Draw projections of points, lines, planes and solids				
Learning Outcome 4	Draw the projections of point and lines inclined to one reference plane only.	10	8		
Contents	 Definition of various term associated with theory of projection, Planes of projection, Quadrants, Introduction to first and third angle projection method. Projection of points in all the four quadrants. Projection of lines- 1. Parallel to HP and VP both. 2.Perpendicular to one plane and parallel to other. 3.Inclined to one plane and parallel to other. 4. line inclined to both the planes 				
Method of Assessment	External : End semester Examination- Drawing work asse	essment			
Learning Outcome 5	Draw the projection of planes & solids	10	10		
Contents	 Projection of planes circle and polygon (upto hexagon)– Plane 1Perpendicular to HP and VP both 2 Perpendicular to one plane and parallel to other 3.Inclined to one plane and perpendicular to other. Projection of solids: Projection of cylinder, cone, prism (upto hexagonal base)and pyramid (upto hexagonal base). Under the following conditions: 1. Axis parallel to HP and VP 2. Axis perpendicular to HP and parallel to VP 3. Axis perpendicular to VP and parallel to HP 4. Axis inclined to HP and parallel to VP. 5. Axis inclined to VP and parallel to HP. 				
Method of	External : End semester Examination- Drawing work assessment				
Assessment		•			
Course Outcome 4	Draw the development of surfaces and section of solid	1			
Learning Outcome 6	Draw sectional views of solid	10	05		
Contents	Section of solids:-Section of cone, cylinder, prism (upto hexagonal base)and pyramid (upto hexagonal base). (Solid resting on its base in the HP i.e. the Axis perpendicular to HP and parallel to VP) in the following cases:				

	1 Section plane parallel to HP and perpendicular to VP				
	2 Section plane parallel to VP and perpendicular to HP				
	3 Section plane inclined to HP and perpendicular to VP.				
	4 Section plane inclined to VP and perpendicular to HP.				
	- Drawing True shape of section.				
Method of	In ternal : Test - Drawing work assessment				
Assessment					
Learning Outcome 7	Develop lateral surface of solids	10	10		
	Development of lateral surface of solids: Introduction,				
	Development of Cone, Cylinder, prism (upto hexagonal l				
Contents	pyramid (upto hexagonal base) (simple and truncated) under the				
contents	condition solid resting on its base in the H.P. and axis perpendicular t				
	H.P. and parallel to V.P.				
	Internal : Test Drawing work assessment				
Course Outcome 5	Draw isometric view /orthographic projection				
	Apply basic principles of orthographic projection for	14	10		
Learning Outcome8	conversion of pictorial views into orthographic views.				
	Principles of orthographic projections, Selection of front	: view,			
Contonto	Principles of orthographic projections, Selection of front Preparation of necessary orthographic views of simple o		rom		
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Contents	Preparation of necessary orthographic views of simple of	bjects f			
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	Preparation of necessary orthographic views of simple or given pictorial views, Dimensioning orthographic views a practice.	bjects f as per st			
Method of	Preparation of necessary orthographic views of simple or given pictorial views, Dimensioning orthographic views a practice.	bjects f as per st			
Method of Assessment Learning Outcome 9	Preparation of necessary orthographic views of simple or given pictorial views, Dimensioning orthographic views a practice. External: End semester Examination- Drawing work asse	bjects f as per st essment 6	anda		
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External : End semester Examination		70
		marks
Internal: Mid Semester Exam		30
		marks
Total	110	100
	hr	marks