PVP20

Department of Freshman Engineering

Engineering Graphics

Course			20ES	1204	204 Year		Ι		Ι	Semester			II		
Code															
Course			Engine		Branch			ME		Cou	Course Type		Theory		
Category			Scie					1	0.4	Deres			NT:1		
Credits		9	<u>3</u> 30			L-T-P Semester End		<u>1-0-4</u> 70		Prerequisites Total		S	Nil 100		
Continuous Internal		8				Semester End Evaluation		70		l otal Marks		100			
Internal Evaluation					Eva	Evaluation				Iviai	N5				
Livara	auton					Co	ourse (Outcon	ies						
Upon	succe	essful c	ompleti	on of t	he cou					e to					
CO1	successful completion of the course, the student will be able to Construct conic sections and curves used in Engineering practice. (L3)														
CO2			respect	to the											
	CO2 Construct orthographic projections of an object when its position is defined with reference planes. (L3)								-						
CO3	De	Develop the isometric view for the given orthographic projections and vice versa. (L3)													
CO4		Develop the lateral surfaces of solids. (L3)													
CO5		Identify the appropriate commands that are used to prepare the given drawing in CAD									CAD				
	environment. (L3) Contribution of Course Outcomes towards achievement of Program Outcomes &														
	C	ontrib										Outcon	nes &		
	PO1	PO2		Streng PO4	PO5	orrela PO6		PO8	, 2: Me PO9	dium, 1 PO10	PO11	PO12	PSO1	PSO2	
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CO2 CO3	$\frac{3}{2}$	2							2	2	2		2	2	
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CO5	2				2				2	2	2		2	2	
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Unit N							Syllabı	18					Mappe	d CO's	
1											Engine				
							e- Coi	nventio	ons in	drawi	ng, lette	ering,			
dimensioning, BIS conventions.															
						structi	ruction of ellipse, parabola and hyperbola							CO1	
	(general method only)b) Cycloidal curves: Cycloid, Epicycloid and Hypocycloid							CO1							
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	Isometric view to orthographic view. Isometric Projections: Principles	
	of Isometric projection- Isometric scale; Isometric views : lines, planes	
	and solids. (Treatment is limited to simple objects only)	
5	Development of surfaces: Development of lateral surfaces of right	
	regular solids-prism, cylinder, pyramid, cone and their sectional parts.	CO4
	(Treatment limited to solids perpendicular to one of the principal planes)	CO4
	Introduction to CAD: Basic drawing, editing and dimensioning	
	commands: line, polyline, circle, arc, polygon, ellipse, rectangle, erase,	CO5
	undo, redo, snap, move, copy, rotate, scale, mirror, offset, layer, trim,	005
	extend, fillet, chamfer, array, linear and angular dimension.	
	Learning Resources	
Text B	ooks	
1.	N.D. Bhatt, Engineering Drawing, 53/e, Charotar Publishers, 2016.	
	K.L. Narayana&P.Kannaiah,EngineeringDrawing,3/e,ScitechPublishers,2012	
	nce Books	
1	Dhanajay A Jolha Engineering Drawing Tata McGray, Hill 2000	
1. 2.	Dhanajay A Jolhe, Engineering Drawing, Tata McGraw-Hill,2009. Shah and Rana, Engineering Drawing, 2/e, Pearson Education,2009.	
2. 3.	K.Venugopal,EngineeringDrawingandGraphics,6/e,NewAgePublishers,2011.	
<i>4</i> .	K.C. John, Engineering Graphics, 2/e, PHI,2013.	
5.	Basant Agarwal and C.M. Agarwal, Engineering Drawing, TataMcGrawHill,20	008.
	burces & other digital material	
	http://www.youtube.com/watch?v=XCWJ XrkWco, Accessed on 01-06-2017.	
2.	http://www.me.umn.edu/courses/me2011/handouts/drawing/blanco-	
	tutorial.html#isodrawing, Accessed on 01-06-2017.	
3.	http://www.slideshare.net, Accessed on 01-06-2017.	