Engineering Graphics															
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CO1	CO1 Construct regular polygons, conic sections, curves and scales used in Engineering									ng					
	practice.														
	CO2 Construct orthographic projections of an object when its position is defined with									1					
CO3	respect to the reference planes.														
CO3 Develop the orthographic projections for the given isometric view. CO4 Develop the lateral surfaces of solids.															
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II			-			ht Li	nes: P	roject	ions o	f straig	ht lines	paralle	el C	CO2	
		Projections of Straight Lines: Projections of straight lines parallel to both reference planes, perpendicular to one reference plane and													
1		parallel to other reference plane, inclined to one reference plane and													
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	parallel to the other reference plane. Projections of Straight Line	
	Inclined to both the reference planes.	
III	Projections of Planes: Regular planes only, Plane perpendicular to both reference planes, Plane parallel to one reference plane and perpendicular to the other reference plane, Plane inclined to one reference plane and perpendicular to the other reference plane, plane inclined to both the reference planes. Projections of Solids: Types of solids: Polyhedra and Solids of revolution. Projections of solids in simple positions: Axis perpendicular to horizontal plane, Axis perpendicular to vertical plane and Axis parallel to both the reference planes, Projection of Solids with axis inclined to one reference planeand parallel to other plane	CO2
IV	Sections of Solids: Perpendicular and inclined section planes, Sectional views and True shape of section, Sections of solids in simple position only. Development of Surfaces: Methods of Development: Parallel line development and radial line development. Development of a cube, prism, cylinder, pyramid and cone.	CO3
V	Conversion of Views: Conversion of isometric views to orthographic views.	CO4
	Computer graphics: Creating 2D&3Ddrawingsof objects including PCB and Transformations using Auto CAD (Not for end examination).	CO5

Learning Resources

Text Books

1. N.D. Bhatt, Engineering Drawing, 53rd, Charotar Publishers, 2016.

Reference Books

- 1. K.L.Narayanaand, P.Kannaiah, Engineering Drawing, Tata McGraw Hill, 2013.
- 2. M.B.Shahand, B.C.Rana Engineering Drawing, Pearson Education Inc, 2009.
- 3. M.B.Shahand, B.C.Rana Engineering Drawing with an Introduction to Auto CAD, Tata McGraw Hill, 2017.
- 4. K. Venugopal, Engineering Drawing and Graphics, 6th, New Age Publishers, 2011.

e- Resources & other Digital material

- 1. 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.
- 4. http://edpstuff.blogspot.in, Accessed on 01-06-2017.