

 <p>JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE</p>	<p>Jaipur Engineering College and Research Centre, Shri Ram kiNangal, via Sitapura RIICO Jaipur- 302 022.</p>	<p>Academic year 2020-21</p>
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Viva Voce

Year: B. Tech. I Year Semester-I & II

Subject& Code: Computer Aided Engineering Graphics (1FY3-28/2FY3-28)

Lab Outcomes (LO)	
LO1	Students will be able to explain objects in First and third angle with different scale
LO2	Students will be able to illustrate basic 3-D objects in 2-D drawing.
LO3	Students will be able to learn AutoCAD commands.

Sheet No.	LO	Objects
1.	LO1	Introduction, Lines, Dimension System, Scale
		<ol style="list-style-type: none"> 1. What is line? 2. Name different measuring instruments used in CAEG lab. 3. What is scale? 4. What are the types of scale? 5. What is the principle of Diagonal scale? 6. What is difference between Diagonal scale and vernier scale? 7. What is difference between Diagonal scale and plain scale? 8. What is full form of R.F.? 9. What is formula for R.F. 10. What are System of Dimensioning?
2.	LO1	Projection, Projection of points, Projection of plane
		<ol style="list-style-type: none"> 1. What is Projection? what are types of projection? 2. What is Orthographic Projection. 3. What is Isometric Projection. 4. What is Orthographic Projection. 5. What are the methods of Orthographic Projection. 6. What is Oblique Projection. 7. What is perspective Projection. 8. What is parallel Projection. 9. Differentiate Orthographic Projection & Isometric Projection. 10. Differentiate First angle projection & third angle projection.



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3.	LO2	Projection of plane
		<ol style="list-style-type: none">1. What is plane?2. How we can find out internal angle of polygon ?3. What is internal angle of regular pentagon.4. What is internal angle of regular hexagon.5. What is internal angle of regular octagon.6. What is internal angle of regular heptagon.7. Define balanced and unbalanced load.8. Draw the connection diagram of transformer winding for star-star and delta-delta.9. Draw the phasor diagram for delta connected system.10. What is the phase difference in each phase of a balanced three phase system?
4.	LO2	Projection of Solid
		<ol style="list-style-type: none">1. What is solid.2. What is the difference between plane & solid.3. When the axis of solid is parallel to H.P & V.P, then which view should be drawn first?4. What is front view, side view and top view of a regular square pyramid standing on horizontal plane base on horizontal plane?5. What is front view, side view and top view of a cylinder standing on horizontal plane base on horizontal plane?6. What is the difference between prism & pyramid?7. What is internal angle of regular octagon.8. What is internal angle of regular heptagon.9. When the axis of solid is perpendicular to H.P, which view should be drawn first?10. When the axis of solid is perpendicular to V.P, which view should be drawn first?
5	LO2	Section of Solid
		<ol style="list-style-type: none">1. To understand some of the hidden geometry of components an imaginary plane is used to cut the object which is called?2. What is sectioning?3. Why we do sectioning?4. What are the rules of sectioning?5. At what angle hatching is done?6. To find the true shape of the section, it must be projected parallel to the which plane?7. A regular triangular prism is resting on H.P and section plane is parallel to H.P and cutting the prism the section would be ?



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		<p>8. A cylinder is placed on H.P on its base and section plane is parallel to V.P cutting the solid the section gives?</p> <p>9. A cylinder is placed on H.P on its base and section plane is parallel to H.P cutting the solid the section gives?</p> <p>10. A regular cone is placed on V.P on its base a section plane is parallel to H.P and section plane is 2cm away from the axis the section will be?</p>
6.	LO3	AutoCAD
		<ol style="list-style-type: none">1. What is AutoCAD?2. What is Full form of CAD?3. What are the uses of Autocad?4. What is the file formats used in design?5. What are the benefits of using AutoCAD?6. What is the short cut command for trim?7. What is the short cut command for open a new drawing tab in AutoCAD?8. What is the short cut command for ortho mode on/off?9. What is the short cut command for chamfer& fillet?10. What is the short cut command for Polar tracking on/off?