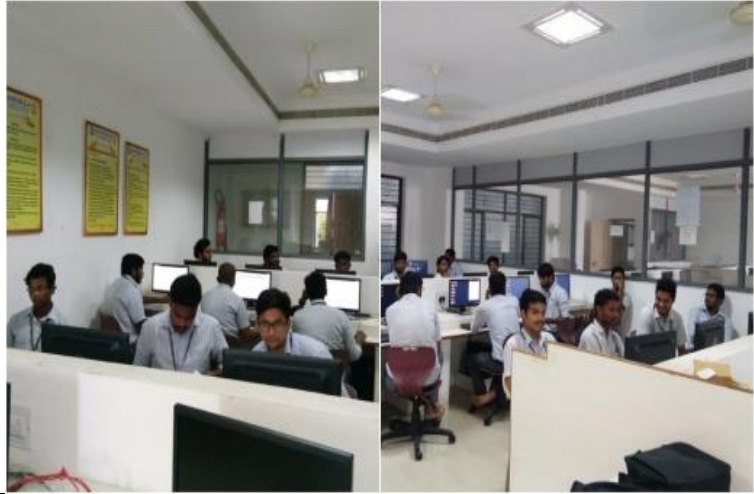


Computer Aided Engineering Drawing Practice Lab

Course Objective:

To enhance the student's knowledge and skills in engineering drawing and to introduce drafting packages and commands for computer aided drawing and modeling.



Sections Handled: II-A, II-B

Major Equipment Details:

S.No	Equipment Name	Qty
1	Computers Intel AMD Athlon 11 x 2 255 processor 3.10GHz., 8GB Ram, 500 GB HDD, 64 bit operating system	36
2	10 KVA 'V Guard' On-line UPS System with 30 Minutes battery backup	01
3	Autodesk Education Master Suite 2011 (EDU Version) includes Auto CAD, Auto CAD Electrical, Autodesk Showcase 2011, Autodesk 3ds Max, Auto CAD Architecture, AutoCAD Civil 3D, Autodesk Revit Architecture, Auto CAD MEP, Autodesk Revit MEP, Autodesk Sketch Book Pro, Autodesk Ecotect Analysis 2011, Autodesk Revit Structure, Autodesk Navisworks Manage, Autodesk Robot Structural Analysis, Auto CAD Map 3D, Autodesk Inventor	01
4	Projector	1

Faculty In charge with qualification : - Mr.K.B.S.V.D.Prasad, M.Tech

Lab Technical name with qualification: B.Naresh, DME

Experiment list as per curriculum:

1. Model given objects using basic Drawing commands in AutoCAD
2. Model given objects employing basic Modifying commands in AutoCAD
3. Give Dimensioning to given objects using basic Annotation commands in AutoCAD

4. Perform Two-dimensional Wireframe modeling of given object using AutoCAD
5. Perform Three-dimensional Wireframe modeling of given object using AutoCAD
6. Isometric Drawing of connecting rod using AUTOCAD.
7. Isometric Drawing of V block using AUTOCAD
8. Generate Orthographic Projections for Isometric Drawing of connecting rod.
9. Generate Orthographic Projections for Isometric Drawing of V Block.
10. Model a simple Three-Dimensional object using AutoCAD
11. Model a Gear using AutoCAD
12. Model a Bolt and Nut in AutoCAD

Experiment list beyond the curriculum

13. Generate Sectional Isometric View of a Joint using AutoCAD
14. Model a thread profile using AutoCAD