**II Year - II Semester**                                        **L   T   P   C**
**20CE4202**                                                     **1   0   2   2**

## COMPUTER AIDED DRAWING (AUTO CAD) LAB

**Course Objectives:**
- Plot the layout of building for a given details
- Draw section views.
- Create shapes and symbols for different uses.

**Course Outcomes:**
- Create, display, and plot working drawings.
- Use layering techniques.
- Construct technical drawings using a standard computer aided drafting program.
- Identify, operate and adjust input and output devices.
- Demonstrate file management techniques.

**LIST OF EXERCISES**

**Using AutoCAD software**

I. **Draw & print the following drawings.**
   i.   Draw conventional signs as per I.S. standards, symbols used in civil engineering drawing.
   ii.  Prepare the King post & Queen post truss and lable the various parts.

II. **Residential buildings.**
   i.   Plan, Elevation, Section of single roomed building
   ii.  Single storied two bed room residential building.

III. **Structural detailing drawings**
   i.   Detailing of rectangular RCC beam
   ii.  Continuous Beam.
   iii. Isolated Column with square footing

IV. **Drawings to be submitted for approval to corporation or municipality showing required details in one sheet such as**
   i.   Plan – Showing Dimensions of all rooms.
   ii.  Section – showing Specifications and Typical Foundation Details.
   iii. Elevation.
   iv.  Site Plan – Showing Boundaries of Site and Plinth Area
   v.   Title Block – Showing signature of Owner & Licensed surveyor's.

V. **File management of Drawing files**
   i.   location of a particular drawing file in a computer
   ii.  saving, renaming, modifying and deleting of file
   iii. Exporting & importing of files