III Year I Semester   **L   T   P   C**
Code: 17CE511   **0   0   3   2**

BUILDING DRAWING (CAD) LAB

Course Objectives:
1. Plot the layout of building for a given details
2. Create multi-view drawings (orthographic projections).
3. Draw section views.
4. Create shapes and symbols for different uses.
5. Create and manage symbols libraries.

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

LIST OF EXERCISES

I. **Using CAD software draw & print the following drawings.**
1. Draw conventional signs as per I.S. standards, symbols used in civil engineering drawing.
2. Prepare the King post & Queen post truss and lable the various parts.

II. **Residential buildings.**
1. Plan, Elevation, Section of single roomed building
2. Single storied Two bed room residential building.

III. **Structural detailing drawings**
1. Lintel cum Sunshade
2. Detailing of rectangular RCC beam
3. Continuous Beam.
4. Isolated Column with square footing

IV. **Drawings to be submitted for approval to corporation or municipality showing required details in one sheet such as**
1. Plan – Showing Dimensions of all rooms.
2. Section – showing Specifications and Typical Foundation Details.
3. Elevation.
4. Site Plan – Showing Boundaries of Site and Plinth Area
5. Key plan – Showing the location of Building.
6. Title Block – Showing signature of Owner & Licensed surveyor's.