

BUILDING DRAWING

Practicals : 3 Periods/Week

Sessional marks : 40

Semester End Exam.: 3 Hrs.

Semester End Exam. marks : 60

Credits : 2

Course objectives:

- To learn basic commands of Auto CAD software
- To draw conventional signs, symbols of materials and building services
- To draw plan, section and elevations of buildings and various building components
- To create 3D building model and rendering the model

Course outcomes:

By the end of this course students will have the capability/knowledge of

- basic Auto CAD commands
- various conventional signs, symbols of materials and building services
- drawing plan, section and elevations of buildings and various building components
- basics of creating 3D building model and rendering the model

Note: Any ten of the following shall be done using AutoCAD /3D MAX software

1. Learning basic commands of CAD software & drawing various geometrical Shapes using
 - a) Draw commands
 - b) Editing commands
 - c) Creating text
 - d) Dimensioning
2. Draw Conventional signs for building materials and symbols for sanitary installations and fittings
3. Draw symbols for Doors & Windows and Electrical Installations
4. Draw Elevation and Sections of Door & Window
5. Draw Cross section of load bearing wall over spread footing
6. Draw plan & sectional elevation of Dog-Legged staircase
7. Draw Pitched roof (King post truss)
8. Draw plan of a single storied residential building showing furniture & cub-boards using layers and blocks in CAD software
9. Draw plan of a single storied residential building showing Electrical and Sanitary features using layers and blocks in CAD software
10. Draw Plan, Section & Elevation of single storied residential building
11. Learning basic commands in 3-D, creating pre-defined solid primitives and applying Boolean operations
12. Create a two roomed ground floor building in 3-D and render the model