

BUILDING INFORMATION MODELING LAB

(Skill Oriented Lab Elective - II)

Course Code: 22CE11S3

L T P C

0 1 2 2

Pre-requisites: Engineering Drawing; Computer Aided Civil Engineering Drawing Lab

Course Outcomes:

At the end of the course, the student will be able to:

CO1: Draw using modify tools (L2)

CO2: Draw walls, doors and windows (L2)

CO3: Draw floors (L2)

CO4: Draw ceilings & roofs (L2)

CO5: Draw stairs, railings, and ramps (L2)

(Any 12 out of 14 experiments)

LIST OF EXPERIMENTS:

1. Setting up levels and grids.
2. Using Templates and setting of units.
3. Modeling Walls, Doors
4. Modeling Windows, Edit Type
5. Modify Tools, Placing of Components.
6. Curtain Walls, Wall Opening.
7. Modeling floors.
8. Modeling ceilings & roofs.
9. Modeling stairs, railings, and ramps.
10. Text, Dimension, Annotations, Model Text, Model line, Room and Area.
11. Paint, Colour Scheme, Creating new Materials, Sweep, Extrude Modeling.
12. Camera view, Hide elements, Render view, Walkthrough.
13. Massing and Site, toposurface, sub region, building pad, site component, parking site.
14. Component Schedule, Creating Title Block.

References:

1. Peter B. and Nigel D., "BIM in Principle and in Practice", 1st Edition, ICE Publishing, 2014.
2. Manuals of Building information modelling software.