

## BUILDING INFORMATION MODELING LAB (Revit Architecture)

(Skill Oriented Lab Elective - II)

Course Code: **20CE11S3**

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**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 16 experiments)**

### LIST OF EXPERIMENTS:

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

### References:

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