

## 3D BUILDING DESIGN



Course Duration: 1 Month

- Who Can Apply: Civil/mechanical/electrical/B.E / B.Tech / M.Tech / B.Sc / M.Sc / Diploma Students.
- Software & Other tools installation Guidance.
- During Course period Trainee will be working on Real time Project.

### About Course

A **Building Design** course typically covers the fundamentals of designing structures such as homes, commercial buildings, and public spaces. It involves various disciplines such as architecture, engineering, construction management, and sustainability practices.

### Course Curriculum:

Revit Architecture Basics

- Projects

- Default Project Template
- Revit File Types
- Exploring The User Interface
- The Design Bar
- Building Elements
- Revit Elements and Families
- Starting A Projects
- Levels
- Creating Levels
- Defining Levels
- Modifying Levels
- Introduction To Walls
- Starting A Design
- Temporary Dimensions
- Drawing Aids
- Guidelines For Placing Walls
- Adding & Modifying Walls
- Wall Properties

### **EDITING COMMANDS**

- Trim / Extend
- Offset • Align • Match • Move • Copy
- Visibility Of Graphics • Array • Tap Measure
- Doors • Creating A New Door Type
- Modifying The Doors • Windows •

## Creating A New Window Types

- Modifying Windows
  - Components • Adding Components
  - Modifying Components • Openings
  - Edit Profile • Wall Openings

## Managing Views • Views • Views Templates

- Working With Views • Controlling Object visibility
- Object Visibility Settings • Section And Elevation
  - Elevation Views • Viewing The Building Model
- Creating The Editing Views • View Properties
- About 3d Views • Creating And Modifying The 3d Views
- About Cameras

## Floors

- Creating Floors • Modifying Floors
- **Ceilings**
  - Creating Ceiling • Modifying Ceiling
- **Roofs**
  - Creating Roofs • Process of Sketching Roofs
  - Modifying Roofs • Join / Un Join Roofs
  - Openings • Shaft Opening • Dormer Openings
  - Vertical Opening • Curtain Walls • Curtain Systems
  - Curtain Grids and Mullions
    - Creating Curtain Walls and Modifying Curtain grids
- Stairs And Railings • Creating Stairs and Railing

- Modifying Stairs and Railing • Text & Tags
- Creating Text & Tags • Detail And Drafting Views
- Call Out • Call Out Views • Creating Reference Call Out
- Detail View • Recusing Drafting Views

rooms • room schedules

- adding room tags and calculate room volume
- modifying room area and volume
- material take offs • legends & key notes
- controlling legend visibility • key noting
- Sheets • Creating Drawing Sheets
- Working With Drawing Sheets
- Previewing & Painting Sheets & Views
- Title Blocks • Creating & Operating Title Blocks
- Representing The Building Model
- Drawing Sheets • Working with Drawing Sheets

#### **What benefits I get in this training?**

- Study Materials
- Project
- Certificate
- Software Tools

#### **Career Paths**

**Graduates of a building design course can pursue careers such as:**

- Architect or Architectural Designer
- Urban Planner

- Construction Manager
- Interior Designer
- Sustainability Consultant
- Building Inspector

Princeton Smart Engineers