



# Building Information Modelling using Revit Architecture

Course Curriculum (Duration: 40 Days)

## Chapter 1: Introduction to BIM and Autodesk Revit

- About Autodesk & AutoCAD
- Workflow and BIM
- Revit Terms
- Overview of the Interface
- Starting Projects
- Viewing Commands

## Chapter 2: Basic Drawing and Editing Tools

- Using General Drawing Tools
- Editing Elements
- Working with Modify Tools

## Chapter 3: Setting Up Levels and Grids

- Setting Up Levels and Grids
- Creating Structural Grids
- Adding Columns
- Linking and Importing CAD Files

## Chapter 4: Modelling Walls

- Modelling Walls
- Modifying Walls
- Model Exterior Shell
- Add Interior Walls

## Chapter 5: Working with Doors and Windows

- Inserting Doors and Windows
- Loading Door and Window Types from Library
- Creating additional Door and Window Sizes

## **Chapter 6: Working with Curtain Walls**

- Creating Curtain Walls
- Adding Curtain Grids
- Working with Curtain Wall Panels
- Attaching Mullions to Curtain Grids

## **Chapter 7: Working with Views**

- Setting the View Display
- Adding Callout Views
- Elevations and Sections

## **Chapter 8: Adding Components**

- Adding Components
- Modifying Components
- Working with Elements

## **Chapter 9: Modelling Floors**

- Modelling & Modifying Floors
- Joining Geometry
- Creating Shaft Openings
- Creating Sloped Floors

## **Chapter 10: Modelling Ceilings & Roofs**

- Modelling Ceilings
- Adding Ceiling Fixtures
- Creating Ceiling Soffits
- Modelling Roofs
- Creating Roofs by Footprint
- Establishing Work Planes
- Creating Roofs by Extrusion



## **Chapter 11: Modelling Stairs, Railings, and Ramps**

- Creating Component Stairs
- Modifying Component Stairs
- Working with Railings
- Sketching Custom Stairs
- Creating Ramps

## **Chapter 12: Construction Documents**

- Sheet (Title Block) Properties
- Placing and Modifying Views on Sheets
- Printing Sheets
- Annotating Construction Documents
- Adding Detail Lines and Symbols
- Creating Legends

## **Chapter 13: Creating Tags, Schedules and Details**

- Adding Tags
- Adding Rooms and Tags
- Working with Schedules
- Setting Up Detail Views
- Adding Detail Components
- Annotating Details
- Create a Detail Based on a CAD File

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Mob. No.: +91-9511781566 / 70381 72715, Email: [training@radiancetech.org](mailto:training@radiancetech.org),

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