



# IFS ACADEMY

Training For The Future!!

## Building Information Modeling using Revit

(Duration: 80 Hrs)

### Course Curriculum

#### 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: Modeling Walls

- Modeling 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
- Duplicating Views
- Adding Callout Views
- Elevations and Sections

### **Chapter 8: Adding Components**

- Adding Components
- Modifying Components
- Working with Elements

### **Chapter 9: Modeling Floors**

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

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

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

### **Chapter 11: Modeling 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

**Project 1: Structural Designing Project which involves Structural Grids and Columns, Foundations, Framing, Slabs and Reinforcement.**

**Project 2: Design for Building Energy Performance Analysis**

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