



Building Information Modelling using Revit Structure

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 Sketching Tools
- Editing Elements
- Working with Basic Modify Tools: Moving, Copying, Rotating & Mirroring Elements.
Creating Linear & Radial Arrays
- Workshops

Chapter 3: Starting Structural Project

- Linking and Importing CAD Files
- Linking in Revit Models
- Setting Up Levels
- Copying & Monitoring Element
- Coordinating Linked Models

Chapter 4: Working with Views

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

Chapter 5: Structural Grids and Columns

- Adding Structural Grids
- Placing Structural Columns
- Workshops

Chapter 6: Foundation

- Modelling Walls
- Adding Wall Footings
- Creating Piers and Pilasters
- Adding Isolated Footings

Chapter 7: Structural Framing

- Modelling Structural Framing
- Modifying Structural Framing
- Adding Trusses
- Workshops

Chapter 8: Adding Structural Slabs

- Modelling Structural Slabs: Modifying Slabs, Slab Edges, Joining Geometry
- Creating Shaft Openings
- Workshops

Chapter 9: Structural Reinforcement

- Structural Reinforcement
- Adding Rebar
- Modifying Rebar
- Reinforcing Walls, Floors, and Slabs

Chapter 10: Structural Analysis

- Preparing Projects for Structural Analysis
- Viewing Analytical Models
- Adjusting Analytical Models
- Placing Loads



Chapter 11: Construction Documents

- Setting Up Sheets
- Placing and Modifying Views on Sheets
- Printing Sheets
- Annotating Construction Documents
- Creating Details

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