

Revit Structure

Course Outline

1. **Introduction to Autodesk Revit Structure**
 - Basic Concepts and Principles
 - The Revit Structure User Interface
 - Building Information Modeling and Revit Structure, Getting Help
2. **Getting Started with a Structural Project**
 - Starting a New Structural Project
 - Snaps Tool, Opening, Saving and Closing a Project
 - Options Dialog Box
3. **Setting up a Structural Project**
 - Creating Project Templates
 - Using Levels
 - Using Grids
 - Working with Reference Planes
4. **Structural Columns and Walls**
 - Structural Columns
 - Structural Walls
5. **Foundations, Beams, Floors, and Open Web Joists**
 - Understanding Foundations
 - Adding Foundations
 - Structural Floors
 - Beams and Open Web Joists
6. **Editing Tools**
 - Creating Selection Sets
 - Moving and Copying
 - Rotating, Mirroring and Arraying
 - + Additional Editing Tools, Creating Groups
7. **Documenting Models and Creating Families**
 - Dimensioning
 - Adding Text and Tags
 - Creating Families
8. **Standard Views, Details, and Schedules**
 - Standard Views
 - Callout Views
 - Drafting Details
 - Graphical Column Schedules
9. **3D Views, Sheets, Analysis, Reinforcements, and Massing**

- o 3D Views, Generating Shadows and Solar Studies
 - o Working with Sheets
 - o Understanding the Analytical Model
 - o Working with Analytical Models
 - o Adding Reinforcements, Linking Building Models
 - o Introducing Massing
 - o Editing Massing Geometry
 - o Creating Building Elements from Massing Geometry
10. **Linking Revit Models with Robot Structural Analysis**
- o Linking Revit Models with Robot Structural Analysis



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