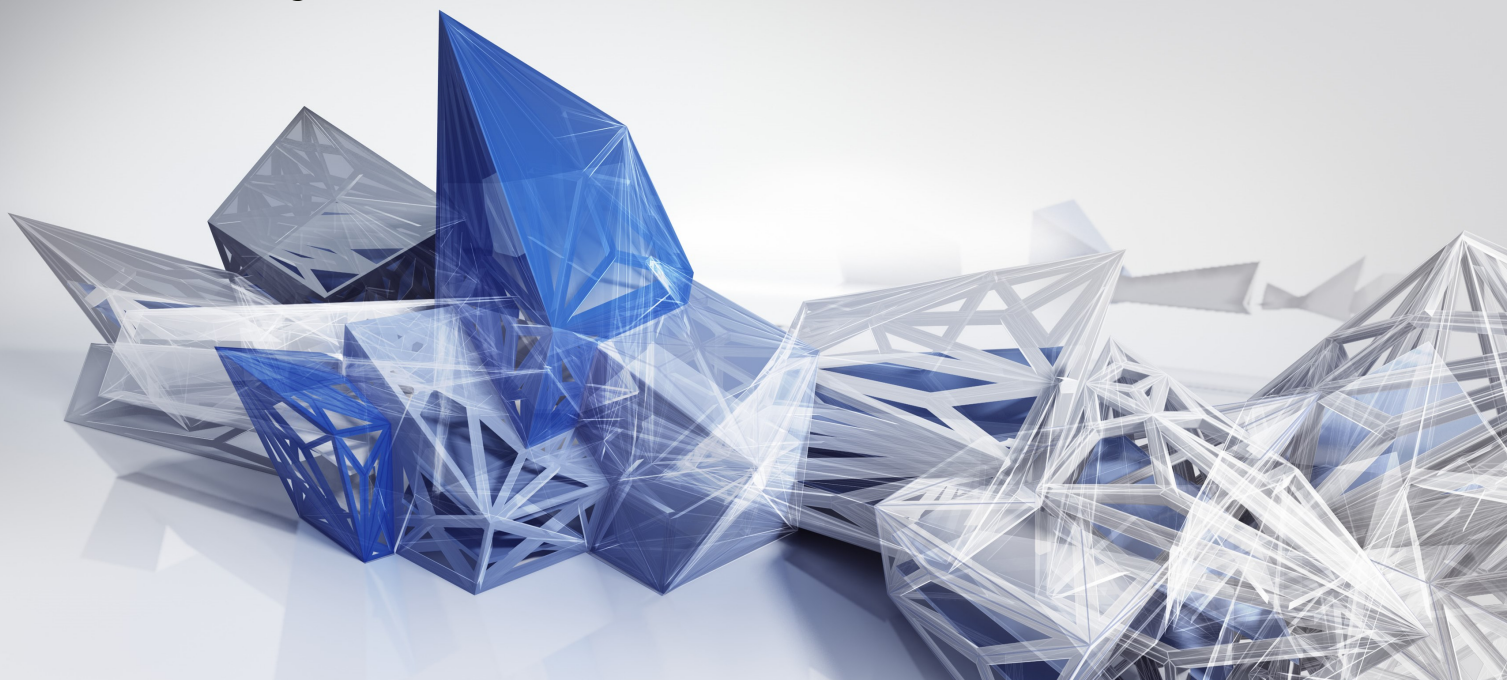




Revit Structure - Fundamentals Training



Autodesk Revit Structure Fundamentals training guide has been designed to teach the concepts and principles from building design through construction documentation.



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Objectives

The training course is intended to introduce students to the user interface and the basic building components of the software that makes it a powerful and flexible structural modelling tool. The goal is to familiarise you with the tools required to create, modify, analyse, and document the parametric model.

Course Outline

- 1) Introduction to BIM and Autodesk Revit
- 2) Basic Sketching and Modify Tools
- 3) Starting Structural Projects
- 4) Working with Views
- 5) Structural Grids and Columns
- 6) Foundations
- 7) Structural Framing
- 8) Adding Structural Slabs
- 9) Structural Reinforcement
- 10) Structural Analysis
- 11) Project - Concrete Structure
- 12) Creating Construction Documents
- 13) Annotating Construction Documents
- 14) Creating Details
- 15) Scheduling

Prerequisites

- It is highly recommended that students have experience and knowledge in structural design and its terminology.

Course Duration: 3 Days

Topic's Covered

- Basic drawing and editing tools.
- Setting up levels and grids.
- Starting a structural project based on a linked architectural model.
- Adding structural columns and walls.
- Adding foundations and structural slabs.
- Structural reinforcement.
- Construction documents.
- Detailing & Scheduling.



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Detailed Course Outline

Introduction to BIM and Autodesk Revit

- BIM and Autodesk Revit
- Overview of the Interface
- Starting Projects
- Viewing Commands

Basic Sketching and Modify Tools

- Using General Sketching Tools
- Editing Elements
- Working with Basic Modify Tools
- Working with Additional Modify Tools

Starting Structural Projects

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

Working with Views

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

Structural Grids and Columns

- Adding Structural Grids
- Placing Structural Columns

Foundations

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

Structural Framing

- Modelling Structural Framing
- Modifying Structural Framing
- Adding Trusses

Adding Structural Slabs

Modelling Structural Slabs

Creating Shaft Openings

Structural Reinforcement

Structural Reinforcement

Adding Rebar

Modifying Rebar

Reinforcing Walls, Floors, and Slabs

Structural Analysis

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

Project - Concrete Structure

- Start a Structural Project
- Create Foundation Elements
- Frame a Concrete Structure



Detailed Course Outline

Creating Construction Documents

- Setting Up Sheets
- Placing and Modifying Views on Sheets
- Printing Sheets

Annotating Construction Documents

- Working with Dimensions
- Working With Text
- Adding Tags
- Adding Detail Lines and Symbols
- Creating Legends

Creating Details

- Setting Up Detail Views
- Adding Detail Components
- Annotating Details

Scheduling

- Structural Schedules
- Graphical Column Schedules
- Working with Schedules

