Autodesk Revit 2020 Architecture Fundamentals

Introduction

Streamline your design process through Autodesk Revit, a Building Information Modeling (BIM) program that works the way architects think!

The five-day Autodesk Revit 2020: Architecture Fundamentals course enables you to create a full 3D architectural project model, including walls, doors, windows, components, floors, ceilings, roofs, and stairs. It focuses on essential tools that the majority of architectural users need.

You learn how to navigate the user interface, use basic drawing, editing, viewing tools, and create construction documents.

The Autodesk Revit 2020: Architecture Fundamentals training also helps you in preparing for the Autodesk Certified User Revit® certification.

Learning Objectives

- Understanding the purpose of BIM and how it is applied in the Autodesk Revit software
- Navigating the Autodesk Revit workspace and interface
- Working with the basic sketching and modifying tools
- Linking CAD and Revit files as the basis of a project
- Creating Levels and Grids as datum elements for the model
- Creating a 3D building model with walls, curtain walls, windows, and doors
- Adding component features, such as furniture and equipment
- Adding floors, ceilings, and roofs to the building model
- Modeling stairs, railings, and ramps
- Setting up sheets for plotting with text, dimensions, details, tags, and schedules
- Creating details

Who should attend?

- Individuals new to Autodesk Revit.
- Beginner users of Revit Architecture.
- Potential students: Architects, General Engineer Designers, Interior Designers, Other Designers, and Draftsmen with knowledge and understanding of Architectural Design, Construction technical documents, Residential and Commercial Design.

Course Outline

1. Introduction to BIM and Autodesk Revit
    1. BIM and Autodesk Revit
    2. Overview of the Interface
    3. Starting Projects
    4. Viewing Commands
2. Basic Sketching and Modify Tools
    1. Using General Sketching Tools
    2. Editing Elements
    3. Working with Basic Modify Tools
    4. Working with Additional Modify Tools
3. Starting Architectural Projects
    1. Linking and Importing CAD Files
    2. Linking in Revit Models
    3. Setting Up Levels
    4. Creating Structural Grids
    5. Adding Columns
4. Modeling Walls
    1. Modeling Walls
    2. Modifying Walls
    3. Adding Room Elements
5. Working with Doors and Windows
    1. Inserting Doors and Windows
    2. Loading Door and Window Types from the Library
    3. Creating Additional Door and Window Sizes
6. Working with Curtain Walls
    1. Creating Curtain Walls
    2. Adding Curtain Grids
    3. Working with Curtain Wall Panels
    4. Attaching Mullions to Curtain Grids
7. Working with Views
    1. Modifying the View Display
    2. Duplicating Views
    3. Adding Callout Views
    4. Creating Elevations and Sections
8. Adding Components
    1. Adding Components
    2. Modifying Components
9. Modeling Floors
    1. Modeling Floors
    2. Creating Shaft Openings
    3. Creating Sloped Floors
10. Modeling Ceilings
    1. Modeling Ceilings
    2. Adding Ceiling Fixtures
    3. Creating Ceiling Soffits
11. Modeling Roofs
    1. Modeling Roofs
    2. Creating Roofs by Footprint
    3. Establishing Work Planes
    4. Creating Roofs by Extrusion

12. Modeling Stairs, Railings, and Ramps
    1. Creating Component Stairs
    2. Modifying Component Stairs
    3. Working with Railings
    4. Creating Ramps
13. Creating Construction Documents
    1. Setting Up Sheets
    2. Placing and Modifying Views on Sheets
    3. Printing Sheets
14. Annotating Construction Documents
    1. Working with Dimensions
    2. Working With Text
    3. Adding Detail Lines and Symbols
    4. Creating Legends
15. Adding Tags and Schedules
    1. Adding Tags
    2. Working with Schedules
16. Creating Details
    1. Setting Up Detail Views
    2. Adding Detail Components
    3. Annotating Details