



## Revit Architecture

Duration: Theory: 40 hrs | Lab: 40 hrs

### ■ Building Information Modeling in Revit

- Overview of the Revit Interface
- Starting Revit Projects • Viewing Commands

### Basic Drawing and Editing Tools

- General Model Drawing Tools
- Helpful Editing Tools - Move, Copy, and Rotate

### Datum Elements

- Setting Up Levels • Creating Structural Grids
- Reference Plane • Adding Columns

### Drawing and Modifying Walls

- Drawing and Modifying Walls • Helpful Editing Tools

### Adding Doors and Windows

- Adding Doors and Windows
- Loading Door and Window Types from the Library
- Creating Additional Door and Window Sizes

### Floors

- Creating Floors • Edit Boundary • Shape Editing
- Cleaning Up Wall and Floor Intersections

### Roofs

- Creating Roofs by Footprint • Setting Up a Roof Plan
- Creating Roofs by Extrusion
- Cleaning Up Wall and Roof Intersections
- Creating Sloped Floors, Roofs, and Slabs

### Vertical Circulation

- Creating Standard and Custom Stairs
- Creating Ramps • Adding and Modifying Railings

### Openings

- Creating Openings

### Reflected Ceiling Plans

- Creating Ceilings

### Placing Components

- Adding Furniture and Fixtures to a Project
- Adding Ceiling Fixtures

### Annotating Construction Documents

- Working with Dimensions • Working with Text
- Adding Drafting View
- Adding Detail Lines and Components

### Tags and Schedules

- Adding Tags & Symbols • Working with schedules

### Creating Room Plan

- Placing Room • Separate Room • Placing Room Tag

### Creating Area Plan

- Placing Area • Separate Area • Placing Area Tag

### Creating Key Notes

- Placing key notes

### Graphics Settings

- Creating & Editing View Templates

## VIEW CREATIONS

### Elevations

- Creating Additional Building Elevations
- Creating Framing Elevations

### Duplicate Views

- Duplicate View • Duplicate With Detailing
- Duplicate With Dependence • Match line • View Reference

### Sections

- Creating Section View
- Creating Callout view (Section & Plan View)

### Legends

- Creating legend View • Create Key Note Legend

### Creating Plan Views

- Floor Plan • Reflecting Ceiling Plan • Plan Region

### Construction Documents

- Setting Up Sheets • Placing and Modifying Views on Sheets
- Printing Sheets (Optional)

### Importing and Exporting

- Exporting Files • Importing CAD Files

## ADVANCED CONCEPTS

### Creating Curtain Walls

- Creating Curtain Walls • Adding Curtain Grids
- Attaching Mullions to Curtain Grids

### Structural Tools

- Structural Basics • Foundation Plans
- Framing Plans and Elevations

### Materials

- Applying materials • Graphical representation

### Model in place

- Creating Door • Creating Windows • Creating Components

### Family

- Creating New Family • Editing Family • Define Parameter

### Conceptual Mass Design

- Placing Mass • Creating In Place mass • Creating Mass Floor

### Model in Face

- Creating Wall • Creating Floor
- Creating Roof
- Creating Curtain System

### Site Design

- Creating Topographical Surfaces
- Property Lines and Building Pads
- Modifying Toposurfaces • Site Components

### Rendering

- Camera Settings and Image Size
- Rendering Settings • Image Resolutions

### Walkthrough / AVI Creation

- Active Camera, Size, Path and Keyframes
- Frame Settings • Export, Length and Format

### Design Option

- Creating Design Option Set • Editing Design Option

### Phasing

- Creating Phases • Managing Phases

### Group

- Creating Group • Editing Group • Creating Group Link

### Worksets

- Working with worksets

### Collaborate

- Insert Revit Link • Copy Monitoring • Coordinate Review
- Reconciling Host • Interference Check

### Project Manage

- Project Settings • Project Location