



AUTODESK
REVIT
Architecture

TIBET

Pathways to your future.

**THE INSTITUTE OF BUSINESS,
ENGINEERING & TECHNOLOGY**



What is AUTODESK REVIT

REVIT software is specially made for Building Information Modeling (BIM), empowering design and construction professionals to bring ideas from concept to construction with a coordinated and consistent model-based approach. It includes the functionality of all of the Revit disciplines (architecture, MEP and structure) in one unified interface. The Autodesk Revit software is a powerful Building Information Modeling (BIM) program that works the way architects think and is a software widely used in the construction industry whether it be Architecture, Building and construction, Surveying, Facility Management or Project Management. The program streamlines the design process through the use of a central 3D model, where changes made in one view update across all views and on the printable sheets. Therefore, a sound knowledge of this software will increase individual and organizational productivity and is a must for all construction professionals as well as those aspiring to be construction industry professionals.





Key features

- Parametric Components - Place walls, doors, and windows in an open, graphical, and parameter-rich system for design and form-making.
- Work-sharing - Save, sync, review, and update work to a centrally shared model in the Revit project collaboration environment.
- Schedules - Use tables to better capture, filter, sort, display, and share project data.
- Interoperability - Revit imports, exports, and links with commonly used BIM and CAD file formats, including IFC, 3DM, SKP, OBJ, and more.
- Annotation - Communicate design intent effectively with tools for tagging, dimensioning, and illustrating in 2D and 3D.
- Global parameters - Embed design intent with project-wide parameters that work with radial and diameter dimensions and equality constraints

Key features

- Developer tools and solutions - Extend Revit functionality with Dynamo, API access, developer solutions, and BIM content on the Autodesk App Store.
- Visibility settings and overrides - Control visibility by hiding, revealing, and highlighting building elements. Use overrides to customize appearance.
- Twin motion for Revit - Launch Twin motion directly from Revit. Sync design data and immerse yourself in the intuitive creator environment to bring your design to life as photo-realistic stills, scenes, and animations.
- Standard and custom family content - Load content from the Autodesk cloud into a Revit project or create your own libraries of building components.
- Personalization and customization - Customize the user interface to fit, with configurable keyboard shortcuts, ribbons, and toolbars.





Course Content

- Introduction to Building Information Modeling (BIM) and Revit
- User Interface & Project Setup
 - ✓ Recent Files Screen
 - ✓ Creating a new Project
 - ✓ User Interface
- Project Browser / Project Organization
 - ✓ Floor Plans, Ceiling Plans, Elevations, Sections, Details, 3D Views
 - ✓ View Organization
 - ✓ Legends, Schedules
 - ✓ Sheets, Families, Groups, Revit Links
 - ✓ View Navigation
- Elements
 - ✓ Datum / Host Elements / Hosted Components / Views / Annotations
 - ✓ Levels / Grids / Reference Planes

Course Content



- Basic Architectural Modeling
 - ✓ Add Walls, doors, Windows, Floors, Roofs
 - ✓ Properties Palette / Options Bar
 - ✓ Draw Options
 - ✓ Element Selection / Selection Filters
 - ✓ Modify Elements: Edit Tools / Modify Tools / Geometry Tools
 - ✓ Load Content / Family Libraries
 - ✓ Parametric Constraints (Level, Align, EO, Dimensional Lock)
- View Creation and Properties
 - ✓ Creating Plans, Elevations, Sections
 - ✓ Callouts, Details, Drafting
- Views
 - ✓ Duplicate Views
 - ✓ View Properties / View Control Bar / Visibility Graphics
 - ✓ 3D Orthographic Views / Perspective Views
 - ✓ Right Click Menu Options



Course Content

- Basic Structural Modeling
 - ✓ Grids
 - ✓ Columns
 - ✓ Floor Slabs / Slab Edges
 - ✓ Foundations
- Develop a Project
 - ✓ Interior Layout
 - ✓ Rooms, Room Schedule, Door Schedule
 - ✓ Furniture, Fixtures, Equipment
 - ✓ Custom Wall types, Curtain Walls, Stacked Walls
- More Views
 - ✓ Color Fill Plans / Shadows
 - ✓ Perspective Camera View
 - ✓ 3D View Oriented to Other Views
- Ceilings
 - ✓ Ceiling View Properties
 - ✓ Automatic / Sketch Based Ceilings
 - ✓ Continuous Ceilings / Cloud Ceilings / Soffits
 - ✓ Light Fixtures / Ceiling Elements

Course Content



- Detailing
 - ✓ Annotating Detail Views
 - ✓ Importing CAD Details
 - ✓ Detail Lines / Detail Components
 - ✓ Edit Cut Profile
 - ✓ Lock 3D View
 - ✓ Detail Groups & Group Editor
- Vertical Circulation & Penetrations
 - ✓ Stairs, Ramps, Elevators
 - ✓ Railings / Railing Extensions
 - ✓ Multi-Level vs. Single Story
 - ✓ Sketch Stairs / Component Stairs
 - ✓ Shaft Openings
- Annotation and Sheet Composition
 - ✓ Model Views, Schedules, Legends, Drafting Views
 - ✓ Tags, Keynotes, Dimensions, Symbols, Detail Components
 - ✓ Creating Sheets, Adding Views, Activating/Deactivating Views
 - ✓ Issues and Revisions
- Output
 - ✓ Printing / PDF / Settings
 - ✓ Export to DWFx / DWG / DGN / Settings
 - ✓ Export to IFC, gbXML
 - ✓ Export Images



Who can join?

This course is ideal for:

- Architects and building Designers
- Structural Engineers
- General users



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