

Autodesk Revit



e-Learning Course

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COURSE MODULES

Module 1: Introduction to Revit & BIM

- Overview of Building Information Modeling (BIM)
- Introduction to Autodesk Revit and its interface
- Project setup and navigation tools
- Understanding Revit families, components, and parameters

Module 2: Basic Building Elements & 3D Modeling

- Creating and modifying walls, doors, and windows
- Working with floors, roofs, and ceilings
- Adding stairs, railings, and ramps
- Working with structural elements like columns and beams

Module 3: Views, Levels, and Grids

- Setting up levels and grids for a project
- Creating different views (floor plans, sections, elevations)
- Understanding 3D views, perspectives, and walkthroughs
- View organization using visibility settings, view templates, and filters

Module 4: Families and Components

- Understanding Revit families (system, loadable, and in-place families)
- Creating and editing families
- Working with annotations, tags, and schedules

Module 5: Materials, Rendering & Visualization

- Assigning and managing materials
- Introduction to lighting and shadows
- Applying textures and creating realistic renderings
- Using camera views and animations for presentations

Module 6: Detailing, Annotations & Documentation

- Creating dimensions, text, and annotation elements
- Adding legends, symbols, and keynotes
- Generating and managing sheets & title blocks
- Exporting PDFs, DWGs, and other file formats

Module 7: Structural Design in Revit (Optional)

- Creating structural framing, beams, and foundations
- Adding reinforcement, steel connections, and slabs
- Structural analysis basics in Revit

Module 8: MEP Design in Revit (Optional)

- Working with HVAC, electrical, and plumbing systems
- Creating ducts, pipes, and electrical layouts
- Understanding MEP families and connections

Module 9: Collaboration and Worksharing

- Understanding worksets, linking, and cloud collaboration
- Importing & exporting AutoCAD files
- Using Revit Worksharing & BIM 360 for teamwork

Module 10: Advanced Topics & Project Workflow

- Parametric modeling and formula-driven elements
 - Using Dynamo for automation
 - Energy analysis & sustainability
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