

Revit Architecture & BIM

A complete Building Information Modeling (BIM) course using AutoCAD and Autodesk Revit Architecture, covering 2D drafting, intelligent 3D building modeling, architectural documentation, schedules, rendering, quantity take-offs, collaboration, and professional BIM workflows for architecture, construction, and infrastructure industries.

Duration 6 Months	Training Mode Offline Classroom Training	Certification Industry Certificate	Practical Labs 100% Hands-on
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Tools & Tech: AutoCAD • Autodesk Revit Architecture • BIM Workflow • IFC Standards

Detailed Course Curriculum & Modules

MODULE 01 | AutoCAD 2D Drafting & Documentation

- AutoCAD Interface, Workspace, Coordinate Systems & File Management
- Drawing & Editing Commands: Line, Polyline, Circle, Arc, Rectangle, Modify Tools
- Precision Drafting: Object Snap (OSNAP), Polar Tracking, Dynamic Input & Layer Management
- Annotation & Dimensioning: Text Styles, Dimension Styles, Leaders & Tables
- Blocks, Dynamic Blocks, External References (XREF) & Block Libraries
- Layouts, Viewports, Paper Space, Plot Styles, Scale Setup & PDF/DWG Export
- Architectural 2D Drafting: Floor Plans, Elevations, Sections & Technical Documentation

MODULE 03 | Revit Architecture Fundamentals

- Levels, Grids, Reference Planes & Building Pads
- Modeling: Walls, Floors, Roofs, Ceilings, Columns & Openings
- Sketching Tools: Draw, Modify, Align, Offset, Trim, Mirror, Copy & Array

MODULE 05 | Families & Parametric Components

- System, Loadable & In-Place Families
- Parametric Families, Family Templates & Parameters
- Shared Parameters & Custom Family Creation
- Family Editing & Library Management

MODULE 07 | Schedules & Quantity Take-Off

- Door, Window, Room, Material & Furniture Schedules
- Quantity Take-Off & Material Quantities
- Cost Estimation Basics
- Schedule Formatting & Project Reports

MODULE 09 | Collaboration & BIM Coordination

- Worksharing, Central & Local Files
- Linked Revit Models, CAD Linking & Model Coordination
- Copy/Monitor, Design Options & Phasing
- BIM Best Practices & Project Collaboration Workflow

MODULE 02 | BIM Fundamentals

- Introduction to Building Information Modeling (BIM)
- CAD vs BIM Workflow & BIM Levels (LOD)
- Building Lifecycle Concepts
- Revit Interface, Project Browser & Properties Palette
- Navigation, Project Templates, Units & Setup

MODULE 04 | Architectural Modeling

- Doors, Windows, Curtain Walls, Panels & Mullions
- Railings, Ramps, Stairs, Roof Openings & Shafts
- Interior Modeling: Furniture, Casework, Fixtures & Specialty Equipment
- Room Creation, Room Tags, Finish Materials & Interior Layout Planning

MODULE 06 | Views, Annotation & Documentation

- Floor Plans, Ceiling Plans, Elevations & Sections
- Detail Views, Callouts, Drafting Views & 3D/Perspective Views
- Walkthroughs & Camera Views
- Dimensions, Text Notes, Detail Components, Symbols & Tags
- Keynotes & Legends

MODULE 08 | Materials, Visualization & Site

- Material Library, Properties, Texture Mapping & Appearance Assets
- Cameras, Lighting, Sun Settings & Shadow Studies
- Realistic Views, Render Settings & Walkthrough Animation
- Site Modeling: Toposurface, Property Lines, Roads & Landscape Elements

MODULE 10 | Construction Documentation & Advanced BIM

- Sheet Creation, Title Blocks, Viewports & Drawing Standards
- Working Drawings, Submission Drawings & IFC/PDF Export
- Shared Coordinates, Project Base Point & Survey Point
- View Templates, Filters, Worksets & Visibility Graphics
- Model Auditing & Maintenance

Practical Projects & Industry Capstones

- Residential 2D Floor Plan & Working Drawings
- Single Storey Residential House BIM Model
- Duplex Villa
- Multi-Storey Residential Building
- Commercial Office Building
- Apartment Building
- Interior BIM Model
- Site Development Project
- Quantity Take-Off Project
- Construction Documentation Set & IFC Export

■ **Industry Certification**

Authorized certificate verified globally via online portal.

■ **100% Placement Support**

Resume review, mock interviews, and recruiter connections.

■ **Lab Access & Mentorship**

Dedicated workstation lab hours with expert guidance.