# Autodesk Professional in Revit for Architectural Design

## Target Audience

The Autodesk Certified Professional in Revit for Architectural Design is tailored for architects, designers, and BIM professionals who utilize Revit to create, document, and visualize architectural designs. It is also ideal for educators, students, and recent graduates aiming to validate their expertise in Revit and enhance their career prospects. This certification is designed for individuals seeking to showcase their advanced skills in building information modeling (BIM) and gain recognition in the architecture and design industry.

## Course Objective

This advanced course is designed to equip participants with the skills needed to create precise 2D designs, technical drawings, and professional documentation using AutoCAD. Learners will gain expertise in applying industry-standard practices to efficiently execute complex drafting projects. The course is aligned with the competencies required for the **Autodesk Certified Professional in AutoCAD for Design and Drafting** certification, preparing participants to validate their advanced skills and achieve professional recognition.

## Course Outcome

- Mastery of advanced Revit tools for architectural design, documentation, and visualization.
- Proficiency in building information modeling (BIM) workflows for efficient project management.
- Ability to create detailed and accurate architectural models, including plans, elevations, and 3D views.
- Skills to collaborate effectively using Revit's work-sharing and coordination tools.
- Preparedness to achieve Autodesk Certified Professional certification in Revit for Architectural Design.
- Enhanced career opportunities and professional recognition in architecture and BIM-focused roles.

**Course Outline:** The course comprises **56-hours** of theory and labs and is divided into **5** different chapters. Each chapter will be followed by hands-on lab exercises to reinforce learning and gauge understanding of the topics covered.

## Chapter 1. Modeling for Architectural Design

Wall Options
Attaching Walls
Stacked Walls
Placing a Cut in a Wall
Curtain Walls
Embedded Curtain Walls
Creating a Roof by Footprint
Creating a Roof by Extrusion
Add Split Lines to a Roof
Add Spot Elevation and Slope Annotations
Creating Stairs by Sketch
Creating Stairs by Component
Stair Landings
Changing a Railing Profile
Modify a Railing
Modifying a Floor Perimeter
Modifying Floor Properties
Place a Vertical Opening
Placing Columns
Place Slanted Columns
Columns and Materials
Rooms
Room Separators
Defining an Element as Room Bounding
Room Styles
Volume Calculations of Rooms
Managing Room Boundaries in Linked Files
Identifying a Family
Create a Casework Family
Create a New Family Type
Using Symbolic Lines in Families

Create a Toposolid Using Points
Create a Toposolid Using a CSV File
Create a Toposolid Using a DWG File
Add a Subdivision to a Toposolid
Model Groups

## Chapter 2. Documentation for Architectural Design

Create a View Template
Apply a View Template to a Sheet
Create and Apply View Filters
Reveal Hidden Elements
Graphic Overrides of Linked Files
Object Styles
Change the View Scale
Change the Detail Level of a View
Segmented Views
Rotate a View
Duplicating Views
View Range
Create Call-out View
Create a Scope Box
Use a Scope Box to Crop Multiple Views
Create a Text Style and Leader
Configure Keynote Settings
Insert Keynotes
Create Dimensions
Modify Dimensions
Convert Temporary Dimensions to Permanent Dimensions
Multi-Segmented Dimensions
Dimension Style with Alternate Units
Using a Matchline
Modifying a Matchline Appearance
Create a Tag
Revision Control
Modify a Revision Schedule
Create a Legend
Import a Legend
Create a Keynote Legend
Color Schemes
Color Scheme by Department

Create a Drafting View
Create a Detail Component Family
Place a Repeating Detail Component Family
Create a Detail Group

## Chapter 3. Collaboration and Coordination for Architectural Design

Worksets
Controlling Workset Visibility
Worksets in a Linked Model
Compacting a Central File
Understanding Shared Coordinates
Placing a Spot Coordinate
Understanding Location
Linking Files using Shared Coordinates
Defining a Shared Site
Using Project North
Using True North vs. Project North
Configure Link Display Settings
Import DWG
Import PDF
Import Image
Linked vs Import
Export to DWG
Review Warnings
Audit a File
Purge a File
Interference Checking
Explode a CAD file
Phases
Design Options
Design Options – Practice Question
Monitoring a Linked File

## Chapter 4. Project Standards and Setup for Architectural Design

Set Save Reminders
Set File Locations
Configure Tabs
Defining Keyboard Shortcut
Control Element Selections

Project Parameters
Configure Object Styles
Transfer Project Standards
Exercise
Perform Effective Searches
Configure Print Sets
Create Library Files
Export a Schedule

## Chapter 5. Information Analysis for Architectural Design

Including Linked Elements in a Schedule
Apply a Phase to a Schedule
Apply a Design Option to a Schedule
Using Combined Parameters in a Schedule
Create a Key Schedule
Create a Schedule using Formulas
Create a Note Block
Area Scheme
Create a Solar Study
Export a Solar Study