



Theory	Practical	Total Course Length
42 Hours	42 Hours	84 Hours

### Synopsis

In this course you will learn how to create a complete 3D Architecture Project.

Using hands-on exercises in both Imperial and Metric to represent Real-World situations and be able to deal with various Architectural Design Projects.

### Prerequisites

Trainee should have knowledge of Architectural Plans, Elevations & Section.

A basic understanding of computer's operating system, launching an application, creating and saving files is a must.

### What will you Learn ?

Introduction to Autodesk Revit Architecture  
 Starting New Project  
 Drawing and Modifying Structural Elements  
 Materials, Drawing and Modifying Basic Walls  
 Doors, Windows and Openings  
 Drawing & Modifying Curtain Walls, Floors  
 Columns, Components, Reflected Ceiling Plan  
 Roofs, Vertical Circulation, Site Design  
 Mass Design, Annotation Construction Documents  
 Tags and Schedules, Views Setup  
 Sheet Composition  
 Managing the project  
 Project Team Collaboration  
 Design Options, and Groups  
 Family Concepts & Techniques  
 Exporting Views and Sheets  
 Basic Visualization  
 Advance Visualization with V-Ray

### Outline

#### Introduction to Autodesk Revit Architecture

Building Information Modeling and Overview of the Interface.

#### Starting New Project

Project Template, Setup New Project, Levels & Grids, Linking, Importing CAD Files and Inserting Image.

#### Drawing and Modifying Structural Elements

Structural columns, Floor, Walls and Footing.

#### Drawing and Modifying Basic Walls

Drawing & Modifying Walls and Helpful Editing Tool.

#### Doors, Windows and Openings

Doors and Windows, Creating Types and Adding Information.

#### Drawing & Modifying Curtain Walls

Curtain Walls, Grids & Panels and Attaching Mullions.

#### Floors

Floors, Creating Shaft Openings and Creating Sloped Floors.

#### Columns

Architecture Columns and Structural Columns.

#### Components

Components and Information to Components Types.

#### Reflected Ceiling Plan

Ceilings Types and Ceiling Fixtures.

#### Roofs

Roofs by Footprint, Roofs by Extrusion & Roofs Elements

#### Vertical Circulation

Stairs, Creating Ramps and Railings.

#### Site Design

Topographical Surfaces , Property Lines and Building Pads , Annotation, Site Components and Shared Positioning.

#### Mass Design

Placing Mass Elements ,Creating Conceptual Massing & Mass Forms, Working with Profiles and Edges .

#### Annotation Construction Documents

Dimensions, Text ,Detail Lines and Symbols.

#### Tags and Schedules

Tags, Rooms and Room Tags, Schedules and Legends.

#### Views Setup

Sections, Elevations, Detail Views, Filters and Duplicating View.

#### Managing the project

Additional Settings , Transfer Project Standards, Object Styles & Purged Unused .

#### Project Team Collaboration

Worksets, Design Options and Groups.

#### Family Concepts & Techniques

Solid and Void Forms , Parametric Framework, Shared Parameters , Symbolic and Model Lines, Additional Information to Family.

#### Exporting Views and Sheets

Export Settings, Exporting to CAD Format,3ds MAX & Navisworks.

#### Basic Visualization

Camera Views, Rendering, Walkthrough and Exposure Setup.

#### Advance Visualization

V-Ray - Lights, Camera & Rendering Setup