

### COURSE OBJECTIVES:

Designed for Architects to improve collaboration, and deliver projects faster. Using BIM, Architects can make more informed design decisions, automate construction documentation, and produce more constructible designs. Focus of this course will be more on:

- Introduction to BIM
- Uses of BIM
- Using Revit architectural
- Families component modeling
- Parametric families modeling
- Sheet Compilation and Publication

### DAY 1

Introduction	<ul style="list-style-type: none"> <li>• Roles &amp; Responsibilities of Project Team</li> <li>• Main elements of BIM</li> </ul>
BIM Information Management	<ul style="list-style-type: none"> <li>• Information Management</li> <li>• BIM Deployment – Expectation as each stage of PLC</li> <li>• Employer Information Request (EIR)</li> </ul>
Using Revit Architecture	<ul style="list-style-type: none"> <li>• The ribbon framework</li> <li>• Using common modify tools</li> <li>• Interface and common Tools</li> <li>• Viewing the Building Model</li> <li>• Working with Building Elements</li> </ul>
Starting a design	<ul style="list-style-type: none"> <li>• For conceptual Design with maker</li> <li>• Working with Levels &amp; Column Grids</li> </ul>
Creating a Building	<ul style="list-style-type: none"> <li>• Working with Compound walls</li> <li>• Working with Interior walls</li> <li>• Working with vertically Compound walls</li> <li>• Working with Doors &amp; Windows</li> </ul>

### DAY 2

Using Building Components	<ul style="list-style-type: none"> <li>• Working &amp; modifying Component Families</li> </ul>
Developing the Building Model	<ul style="list-style-type: none"> <li>• Working with Curtain Walls</li> <li>• Working with Floors</li> <li>• Working with Ceilings</li> <li>• Working with Roofs</li> <li>• Working with Stairs and Railings</li> </ul>
Conceptual Design	<ul style="list-style-type: none"> <li>• Working with Massing Shapes</li> <li>• Converting Massing Shapes to Building</li> </ul>
Creating Schedules	<ul style="list-style-type: none"> <li>• Working with Basic Schedules</li> <li>• Working with Room Schedules</li> <li>• Controlling the Appearance of Schedules</li> </ul>
Using Dimension and Constraints	<ul style="list-style-type: none"> <li>• Working with Constraints</li> </ul>

### DAY 3

Drafting and Detailing	<ul style="list-style-type: none"> <li>• Working with Callouts</li> <li>• Detailing of drafting</li> <li>• Working with Drafting View</li> </ul>
Presenting the Building Model	<ul style="list-style-type: none"> <li>• Working with Section Views</li> <li>• Working with 3D Views</li> <li>• Getting Started with Rendering</li> <li>• Working with Drawing Sheets</li> </ul>

	<ul style="list-style-type: none"> <li>• Working with Title Blocks</li> <li>• Controlling Objects Visibility</li> <li>• Material Assignment</li> <li>• Interior Rendering</li> <li>• Exterior Rendering</li> <li>• Walkthrough</li> </ul>
Sheet, Plotting & Publishing	<ul style="list-style-type: none"> <li>• Importing &amp; Exporting Content</li> <li>• Working with Project Templates</li> <li>• Completing design draft</li> </ul>

#### DAY4

Creating Advanced building Components	<ul style="list-style-type: none"> <li>• In-Place Families</li> <li>• About Solids and Voids</li> <li>• Creating 3D Geometry</li> <li>• Modifying In-Place Families</li> </ul>
Families	<ul style="list-style-type: none"> <li>• Component Families &amp; Family Editor</li> <li>• Parametric Formulas</li> <li>• Process of Creating Standard Component Families</li> </ul>
Nested Families	<ul style="list-style-type: none"> <li>• Linked Parametes</li> </ul>
Component Groups	<ul style="list-style-type: none"> <li>• Placing, Saving, and Converting</li> <li>• Component Groups Duplicating and</li> <li>• Editing Component Groups</li> </ul>