REVIT ARCHITECTURE ESSENTIAL TRAINING

<u>Objectives</u>

The main objective of this course to teach trainee the basic commands and tools necessary for modelling basic 3D architecture model. After completing this course trainee will be able to:

- ✓ Describe building information modeling methodology and its benefits.
- ✓ Use different parts of the Revit Architecture user interface and work with different types of architectural elements and families.
- ✓ Use the different views listed in the Project Browser, control the visibility and graphical
- ✓ Representation of objects in architecture model, and work with elevation, section, and 3D views.
- ✓ Set up a project and transfer standards between projects, add and modify levels in project model, create and modify grids.
- ✓ Work with architectural components:
  - Grids and Levels
  - Wall
  - Floors
  - Roof
  - Ceiling
  - Staircase
  - Railing
  - Revit Model Family

- ✓ Work with documentation components:
  - Text
  - Tag
  - Titleblock
  - Room
  - Colourfill
  - Schedules

- ✓ Work with detail views, add 3D and 2D elements and detail components.
- ✓ Work with sheets and titleblocks, print sheets, and export Revit architecture content to CAD formats.

Chapter	Topic	Duration	Time
Chapter 1	**Building Information Modelling** • Building Information Modelling for Architectural • Understanding Revit element hierarchy	**1 -Hour**	**9.00 AM - 10.00 AM**
Chapter 2	**Revit User Interface** • Revit Element Hierarchy • Properties Palette • Visibility • Graphic Representations • View Templates	**3-Hour**	**10.00 AM- 1.00 PM**
Chapter 3	**Using Common Modify Tools** • Copying Elements • Rotating and Mirroring Elements • Arraying Element • Splitting Lines and Walls • Trimming or Extending Lines and Walls	**1-Hour**	**2.00PM – 3.00 PM**
Chapter 4	**Viewing The Model** • View Properties • Elevations • Sections • 3D Sections • Perspective View • Walkthrough • Rendering	**2-Hour**	**3.00 PM- 5.00 PM**

	Training Programme Day 2		
Chapter	**Topic**	**Duration**	**Time**
Chapter 5	**Starting a new project** • About Projects • Creating Project Templates • Guidelines for Creating Project Template Files • About Levels • Adding and Modifying Levels • Guidelines for Adding and Modifying Levels • About Grids • Methods of Creating and Modifying Grid Lines • Guidelines for Creating and Modifying Grids	**1-Hour**	**9.00 AM - 10.00 AM**
Chapter 6	**Walls and Curtains Walls** • Creating generic walls • Sketching walls • Hosting element in walls • Modifying walls • Editing walls • Creating curtain walls • Adding curtain grids, mullions and panel • Modifying curtain walls • Editing curtain walls structure	**3-Hour**	**10.00 AM- 1.00 PM**
Chapter 7	**Floors and Roofs** • About floor elements • Process of adding a floor element • Sketching floors • Editing Floors • About roofs • Process of sketching roofs • Roof modification and example • About Ceiling elements • Creating ceiling • Editing ceiling	**1-Hour**	**2.00 PM - 3.00 PM**
Chapter 8	**Stairs and Railing** • About stairs and railing • Process for creating a staircase by component • Process for creating a staircase by sketch • Creating the generic railing	**2-Hour**	**3.00 PM – 5.00 PM**

Chapter	Topic	Duration	Time
Chapter 9	**Adding Families** • Adding families • Loading families • Placing families • Editing families in project	**1-Hour**	**9.00 AM – 10.00 AM**
Chapter 10	**Rooms and Color fill plans** • Tagging spaces with room tags • Room tags • Room Boundaries • Room separation line • Generating color fill rooms plan	**1-Hour**	**10.00 AM – 11.00 PM**
Chapter 11	**Creating Plan Annotation and Schedules** • About Temporary Dimensions • About Permanent Dimensions • About Spot Dimension Symbols • Guidelines for Adding Dimensions • About Text • Setting Text Placement Parameters • About Legends • Guidelines for Creating Legends • About Schedules • Working with Schedules • Guidelines for Working with Schedules	**2-Hour**	**11.00 PM – 1.00 PM**
Chapter 12	**Creating Construction documentation** • About Sheets and Titleblocks • About Revision Tracking • Process of Creating Sheets by Using Customized Titleblocks • Creating Revision Clouds • Print settings • Print setup setting • Guidelines for printing sheets • Setting for exporting content • Process of exporting views to CAD formats • Guidelines for exporting content to CAD • Formats	**3-Hour**	**2.00PM – 5.00 PM**