

* Course Outline :-

Essentials .

* Learning Revit Architecture Interface & Navigation * Linking Files * Modeling Essentials.

- Understanding the purpose of Building Information Modeling (BIM) and how it is applied in the Autodesk Revit software .
- Navigating the Autodesk Revit workspace and interface .
- Creating Levels and Grids as datum elements for the model .
- Importing and Linking Vector Files (CAD & others) .
- Modifying and Manipulating Imported AutoCAD Files .
- Importing Raster Image Files .
- Working with the basic drawing and editing tools .
- Creating a 3D building model with walls, curtain walls, windows, and doors -Adding floors, ceilings, and roofs to the building model -Adding component features, such as furniture and equipment.

* Advanced Modeling * Views & Setting Views Display.

- Adding and creating component-based and custom stairs.
- Working with Railings.
- Duplicating Views.
- Adding Callout Views.
- Elevations and Sections.
- Creating Cameras Views.
- Create topographic surfaces & Add property lines and building pads .
- Modify toposurfaces with subregions, splitting surfaces and grading the regions.

* Creating Construction Documents * Annotating Construction Documents.

- Working with Dimensions.
- Working with Text.
- Adding Detail Lines and Symbols.
- Adding Tags & Adding Rooms with Tags.
- Working with Schedules.
- Setting up sheets for plotting with text, dimensions, details, tags, and schedules. - Placing and Modifying Views on Sheets.
- Printing Sheets.

#Advanced :-

*Working with Conceptual Masses *Linking Files * Advanced Modeling

- Understanding Massing Design and benefits to Architectural Design .
- Creating In Place Mass Elements.
- Using The Family Editor To Create A Mass Form.
- Setting Up Workplanes.
- Creating Parameters for A Mass Family Form -Apply to masses: -Presenting Mass Design -In-depth advanced Walls Techniques .
- Curtain Walls Modeling and indepth techniques.

*Family Creation & Parameters/Formulas * Project Phasing/Benefits into a Project * View Management

- Family Editor and Family Essentials .
- Family Editor and Keys to planning an Intelligent Family.
- Advanced template family files.
- Advanced reference planes.
- Formulas.
- Parametric formulas and .
- Automatic Driven Conditional statements .
- Intereopatability of AutoCAD and other CAD drawing files with Revit Families creation .
- Understanding and using Phases into a project, benefits of using it: -Project Browser Organization .
- View Templates.
- View Filters -Additional Management Tools.

*Configuring Templates & Projects Standards * Documentation Advanced * Advanced Annotations.

- Project Information and Parameters.
- Project Information -Shared Parameter .
- Title Blocks -Advanced Dimensioning.
- Advanced Texting.
- Advanced Detail Lines and Symbols .
- Setting up sheets for plotting with text, dimensions, details, tags, and schedules.
- Advanced Placing and Modifying Views on Sheets .
- Printing Sheets .
- Sheet List Schedules.