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# ADAVANCE REVIT

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BIM Modelling



**Multi Axis Innovations**  
Innovative solutions to **aec** Industry

MULTI AXIS INNOVATIONS  
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# Syllabus

## Basics of Family

- Family Type
- Family Hierarchy
- Introduction to Family User Interface
- Forms-Extrusion
- Forms-Revolve
- Forms-Sweep
- Forms-Void
- Control
- Family Templates
- Reference Plane
- Reference Line
- Work Plane Based
- Always Vertical
- Omni Class Number
- Floor Based
- Face Based

## Family Parameter and Constrains

- Type Parameter
- Reference Plane
- Dimension Constrain
- Visibility Settings
- Yes/No Parameter
- Types in Family
- Formula in Family
- Manage image
- Insert CAD
- Annotation Family

## Nested Families and MEP Connectors

- Create Nested Family
- Nested Family Control By Parameter
- Family Category
- Family Sub Category
- Using Profile in Family
- Building Parametric array
- Modify Profile
- Profile Parameters
- Connectors in Family
- Electrical Connectors
- Pipe Connectors
- Duct Connectors

## Visibility and Sample Families

- Title Block Family
- Combining Parameters
- Key plan in Title Block
- Adding Zone in Key plan
- Using Visibility Control
- Symbolic line in Family
- Model Text in Family
- Visibility Settings
- Masking Region
- Material in Family
- Door Family
- Light Family
- Plumbing Fixture Family
- Mechanical Family
- Generic Family

## Viewing Model

- View using Linked Files
- View Template
- View Range
- Creating View Templates
- Managing View Templates
- Creating and Managing Scope Box
- Project Orientation
- Object Styles
- Sub Category

## *Parameters in Project*

- Project Parameter
- Shared Parameter
- Global Parameters
- Variables in Parameters
- Parameters in Schedule
- Advantages of Using Parameter
- Example of Using Parameters in Project
- Parameters in Family
- Parameters in Project Browser
- Parameters in View
- Transfer of Project Parameters
- Editing of Project parameters

## *Project Browser and Presentation*

- Naming Convention and Create Custom Project Browser
- Advantages of Project Browser
- Example of Project Browser
- View Title
- Custom Elevation and Section Tags
- Revision Schedule
- Custom Title Block Creation

## *Schedule*

- Family Naming Convention
- Schedule for Checking quality of Model
- Schedule Formatting
- Schedule using linked Files
- Units Format
- Hide/Unhide Columns
- Phases in Schedule
- Formula in Revit
- Managing Revisions
- Revision Schedule

## *Manage Models*

- Transfer Project Standards in Model
- Units in Model
- Project Information
- Material
- Create New Material
- Manage Material Library
- Texture Images to your Revit Project
- Manage Appurtenance for Material
- Phases in Project
- Warnings in Project
- Manage images in Project

## *Project Location*

- Project Base Point
- Survey Point
- True North and Project North
- Set Project Location Revit
- Publish Co-ordinates
- Acquire Co-ordinates
- Set Project Point

- Sample Site

### *Best Practice in BIM Model*

- Best Modelling Practice
- Presentation Skills

### *BIM Execution Plan*

- What is BEP?
- BIM Goals
- BIM Uses
- EIR
- Roles and Responsibility
- LOD Matrix
- Revision Control
- Project Workflow
- Common Data Environment
- Project Team

### *Project Setup*

- Project Setup For Multi D Project
- Creating Master File
- Master Elevation
- Master Plan
- Schedules in Master File
- Model Segregation Management

### *Collaboration in Model*

- Volume strategy
- Back of Central File
- History of Central File
- Export to Navies work
- Work set strategy

### *Check List*

- Architectural Check List
- Structural Check List
- HVAC Check List
- Plumbing Check List
- Electrical Check List
- Interior Check List
- Block Work Check List

## *Add on*

- Report Productivity Add on
- Modelling Productivity Add on
- Manage Productivity Add on
- Quality Control Add on
- Productivity Add on

## *Additional Settings*

- Line Style in Revit
- Line Weight in Revit

## *Tips and Tricks in Revit*

- Tips and Tricks in Revit