

# outline



**COURSE TITLE: REVIT MEP ADVANCED**

## **Chapter 1 Revit Smart Families**

- 1.1 Classification of Revit families
- 1.2 Revit element hierarchy

## **Chapter 2 Revit Family Creation**

- 2.1 Overview of Family Editor
- 2.2 Ingredients of Revit Families

## **Chapter 3 Geometries**

- 3.1 Creating solids & voids
- 3.2 Extrude, Blend, Revolve, sweep, swept blend

## **Chapter 4 Parameter**

- 4.1 Types of parameter
- 4.2 Labelling the dimension to parameter

## **Chapter 5 Annotation Family**

- 5.1 Creating Tags
- 5.2 Creating Symbols
- 5.3 Title block
- 5.4 Key Plan

## **Chapter 6 Formula**

- 6.1 Math Operators
- 6.2 Direct values
- 6.3 If statements
- 6.4 Yes / No parameter

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## **Chapter 7 MEP Connectors**

## **Chapter 8 Collaboration**

- 8.1 Copy / monitor
- 8.2 Transferring project standards
- 8.3 Understanding work-sharing
- 8.4 Setting up worksets
- 8.5 Interference check
- 8.6 Coordination review

## **Chapter 9 File Interchangeability**

- 9.1 *Importing*
  - a. Importing Cad Files
  - b. Linking Revit
  - c. Linking IFC
- 9.2 *Exporting*
  - a. Exporting - CAD, NWC, schedules, IFC & etc.

## **Chapter 10 Advanced View Controllability**

- 10.1 Design Options
- 10.2 View template
- 10.3 Links Visibility
- 10.4 Object Styles
- 10.5 Preparing Legends

## **Chapter 11 Advanced Drafting**

- 11.1 Creating Line styles / Line Weights / Line Pattern
- 11.2 Creating Section heads/ tails
- 11.3 Creating view title
- 11.4 Level head editing
- 11.5 Legend

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## Chapter 12 Advanced MEP schedules

- 12.1 Duct gauge calculation
- 12.2 Conduit Run Schedules
- 12.3 Sorting, Filtering
- 12.4 Sheet List

## Chapter 13 Building Performance Analysis

- 13.1 Creating Spaces
- 13.2 Zones
- 13.2 Heating & Cooling Load calculations

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