

REVIT ARCHITECTURE - SYLLABUS

| Revit Architecture | | Total Duration : 80 Hours |
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| Session | Topics | |
| 1 | <ul style="list-style-type: none">• Introduction<ul style="list-style-type: none">○ Building Information Modelling○ Revit Architecture<ul style="list-style-type: none">• History• Features• Projects• Project Templates• Default Project Template• Revit File Types• Exploring the User Interface• Building Elements• Revit Elements and Families• Starting a Project | |
| 2 | <ul style="list-style-type: none">• Drawing Aids• Project Units• Listening and Temporary Dimensions• Levels<ul style="list-style-type: none">○ Adding Levels○ Modifying Levels○ Level Properties○ Creating New Level Element Type○ Constrain Level Lines○ Remove Level Lines• Walls<ul style="list-style-type: none">○ Drawing a plan as per dimension | |
| 3 | <ul style="list-style-type: none">• Walls<ul style="list-style-type: none">○ Wall Properties○ Arc Walls○ Creating a wall element type○ Compound Structure | |

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| | <ul style="list-style-type: none"> ○ Vertically Compound Walls ○ Adding Sweeps and Reveals ○ Wall Shapes and Openings ○ Stacked Walls • Wall Joins • Working with Grids |
| 4 | <ul style="list-style-type: none"> • Editing Commands <ul style="list-style-type: none"> ○ Move ○ Copy ○ Paste <ul style="list-style-type: none"> • Editing Pasted Elements • Paste Aligned ○ Create Similar ○ Rotate ○ Mirror ○ Array ○ Scale ○ Trim / Extend ○ Offset ○ Align • Doors <ul style="list-style-type: none"> ○ Placing Doors ○ Door Properties ○ Load From Family • Windows <ul style="list-style-type: none"> ○ Placing Windows ○ Window Properties • Constraint Doors / Windows • Match • Visibility Graphics • Tape Measure |
| 5 | <ul style="list-style-type: none"> • Components <ul style="list-style-type: none"> ○ Loading Component ○ Placing Components ○ Modifying Properties ○ Introduction to Modern Medium Library • Managing Views |

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| | <ul style="list-style-type: none"> ○ Floor Plan View ○ Ceiling Plan View ○ Cutting a Plan View ○ Plan Region ○ Elevation View ○ Section View ○ 3D Views ○ Cropping a View ○ Visibility and Graphics Display ○ View Templates |
| 6 | <ul style="list-style-type: none"> • Dimensions <ul style="list-style-type: none"> ○ Temporary Dimensions ○ Permanent Dimensions • Constraints <ul style="list-style-type: none"> ○ Applying and Removing Constraints |
| 7 | <ul style="list-style-type: none"> • Floors <ul style="list-style-type: none"> ○ Creating Floors ○ Placing Elements on a Sloped Floor • Ceilings <ul style="list-style-type: none"> ○ Creating Ceilings |
| 8 | <ul style="list-style-type: none"> • Roofs <ul style="list-style-type: none"> ○ Roof by Footprint ○ Roof by Extrusion ○ Join/unjoin roofs ○ Roof Ridges • Openings <ul style="list-style-type: none"> ○ On Face ○ Vertical Opening ○ Shaft opening ○ Dormer opening ○ Wall opening |
| 9 | <ul style="list-style-type: none"> • Curtain Walls <ul style="list-style-type: none"> ○ Creating Curtain Walls ○ Curtain Grids ○ Mullions |

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| | <ul style="list-style-type: none"> ○ Reshaping Curtain Wall Panels ○ Merging Curtain Wall Panels ○ Adding Curtain Door Panel • Embedded Walls |
| 10 | <ul style="list-style-type: none"> • Stairs <ul style="list-style-type: none"> ○ Creating Stairs ○ Stair Calculator ○ Modifying Stairs ○ Stair Properties • Ramp • Railing |
| 11 & 12 | <ul style="list-style-type: none"> • Massing <ul style="list-style-type: none"> ○ Introduction ○ Creating In-Place Masses using Forms <ul style="list-style-type: none"> • Extrusion • Revolve • Sweeps • Loft ○ Modifying Forms <ul style="list-style-type: none"> • Adding an Edge to a Form • Adding a Profile to a Form • Rehosting Forms ○ Surface Forms <ul style="list-style-type: none"> • Rationalizing Surface • Patterning Surface ○ Mass Family ○ Creating Building Elements <ul style="list-style-type: none"> • Walls • Mass Floors • Curtain System • Roofs |
| 13 | <ul style="list-style-type: none"> • Text & Tag • Callout views • Creating Details <ul style="list-style-type: none"> ○ Inserting a Detail Component ○ Repeating Detail |

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| | <ul style="list-style-type: none"> • Drafting Views <ul style="list-style-type: none"> ○ Import from CAD • Reference Callouts |
| 14 | <ul style="list-style-type: none"> • Schedules <ul style="list-style-type: none"> ○ Introduction ○ Creating Schedule and Quantities ○ Custom Parameters ○ Modifying Schedules ○ Material Takeoff ○ Exporting Schedule |
| 15 | <ul style="list-style-type: none"> • Rooms <ul style="list-style-type: none"> ○ Room Plans ○ Room Separation Line and Boundaries ○ Room Schedule ○ • Areas <ul style="list-style-type: none"> ○ Area Schemes ○ Area Plans ○ Area Boundaries ○ Area Tags ○ Color Schemes • Legend Views • Keynotes |
| 16 | <ul style="list-style-type: none"> • Structural Modelling <ul style="list-style-type: none"> ○ Structural Template ○ Structural Component Families ○ Structural Columns ○ Beams ○ Joins and Cutback ○ Beam System ○ Braces ○ Structural Walls ○ Foundations ○ Structural Floor |

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| 17 | <ul style="list-style-type: none"> • Sheet <ul style="list-style-type: none"> ○ Title Block ○ Adding a Sheet ○ Adding Views to a Sheet ○ Modifying a View on a Sheet ○ Creating a Title Sheet • Printing |
| 18 | <ul style="list-style-type: none"> • Lights • Rendering • Walkthrough • Solar Studies |
| 19 | <ul style="list-style-type: none"> • Site Design <ul style="list-style-type: none"> ○ Creating Toposurface ○ Contours <ul style="list-style-type: none"> • Contour line Label ○ Modifying Toposurface <ul style="list-style-type: none"> • Subregion • Split • Merge ○ Building Pads ○ Graded Regions ○ Parking Components ○ Site Components |
| 20 | <ul style="list-style-type: none"> • Working in a Team <ul style="list-style-type: none"> ○ Introduction ○ Worksets |
| 21 | <ul style="list-style-type: none"> • Working with Linked Models <ul style="list-style-type: none"> ○ Linking Revit Models ○ Nested Link ○ Managing Links ○ Shared Positioning ○ Acquiring and Publishing Coordinates |
| 22 | <ul style="list-style-type: none"> • Design Option • Project Phasing |

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| | <ul style="list-style-type: none"> • Export |
| 23 | <ul style="list-style-type: none"> • Materials • Decal • Interference Checking • Customizing Project Settings <ul style="list-style-type: none"> ○ Fill Patterns ○ Line Styles and Line Weights ○ Line Patterns • Import / Link • Groups |
| 24 | <ul style="list-style-type: none"> • In-Place Families <ul style="list-style-type: none"> ○ Setting Work Planes ○ Creating and Modifying In-Place Families |
| 25 | <ul style="list-style-type: none"> • Family Creation <ul style="list-style-type: none"> ○ Introduction ○ Creating a Swing Door Family |
| 26 | <ul style="list-style-type: none"> • Family Creation <ul style="list-style-type: none"> ○ Creating a Sliding Window Family ○ Creating Arch Window Family |
| 27 | <ul style="list-style-type: none"> • Family Creation <ul style="list-style-type: none"> ○ Creating a New Furniture Family ○ Staircase Customization |
| 28 | <ul style="list-style-type: none"> • 2011 Updates <ul style="list-style-type: none"> ○ User Interface Enhancements ○ Graphics Enhancements ○ Updates in Massing ○ Updates in Material ○ Sheet Enhancements ○ Floor Enhancements ○ Sun Path Analysis ○ Background Images in Rendering |

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| 29 | <ul style="list-style-type: none">• 2011 Updates<ul style="list-style-type: none">○ Family Creation with Adaptive Components<ul style="list-style-type: none">• Curtain Panel Pattern 1• Curtain Panel Pattern 2• Create a Helix |
| 30 | <ul style="list-style-type: none">• 2011 Updates<ul style="list-style-type: none">○ Family Creation with Adaptive Components<ul style="list-style-type: none">• Grill Design• Net Design○ Family Editor Enhancements• Reporting Parameter |