

# Revit Architecture - syllabus

| Revit Architecture |  | Total Duration :60 Hours |
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| Session            | Topics   |                          |
| 1                  | <ul style="list-style-type: none"> <li>• Introduction               <ul style="list-style-type: none"> <li>○ Building Information Modelling</li> <li>○ Revit Architecture                   <ul style="list-style-type: none"> <li>• History</li> <li>• Features</li> <li>• Projects</li> <li>• Project Templates</li> <li>• Default Project Template</li> <li>• Revit File Types</li> <li>• Exploring the User Interface</li> <li>• Building Elements</li> <li>• Revit Elements and Families</li> <li>• Starting a Project</li> </ul> </li> </ul> </li> </ul> |                          |
| 2                  | <ul style="list-style-type: none"> <li>• Drawing Aids</li> <li>• Project Units</li> <li>• Listening and Temporary Dimensions</li> <li>• Levels               <ul style="list-style-type: none"> <li>○ Adding Levels</li> <li>○ Modifying Levels</li> <li>○ Level Properties</li> <li>○ Creating New Level Element Type</li> <li>○ Constrain Level Lines</li> <li>○ Remove Level Lines</li> </ul> </li> <li>• Walls               <ul style="list-style-type: none"> <li>○ Drawing a plan as per dimension</li> </ul> </li> </ul>                               |                          |
| 3                  | <ul style="list-style-type: none"> <li>• Walls               <ul style="list-style-type: none"> <li>○ Wall Properties</li> <li>○ Arc Walls</li> <li>○ Creating a wall element type</li> <li>○ Compound Structure</li> <li>○ Vertically Compound Walls</li> <li>○ Adding Sweeps and Reveals</li> <li>○ Wall Shapes and Openings</li> <li>○ Stacked Walls</li> </ul> </li> <li>• Wall Joins</li> <li>• Working with Grids</li> </ul>   |                          |
| 4                  | <ul style="list-style-type: none"> <li>• Editing Commands</li> </ul>   |                          |

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|   | <ul style="list-style-type: none"> <li>○ Move</li> <li>○ Copy</li> <li>○ Paste <ul style="list-style-type: none"> <li>• Editing Pasted Elements</li> <li>• Paste Aligned</li> </ul> </li> <li>○ Create Similar</li> <li>○ Rotate</li> <li>○ Mirror</li> <li>○ Array</li> <li>○ Scale</li> <li>○ Trim / Extend</li> <li>○ Offset</li> <li>○ Align</li> <li>• Doors <ul style="list-style-type: none"> <li>○ Placing Doors</li> <li>○ Door Properties</li> <li>○ Load From Family</li> </ul> </li> <li>• Windows <ul style="list-style-type: none"> <li>○ Placing Windows</li> <li>○ Window Properties</li> </ul> </li> <li>• Constraint Doors / Windows</li> <li>• Match</li> <li>• Visibility Graphics</li> <li>• Tape Measure</li> </ul> |
| 5 | <ul style="list-style-type: none"> <li>• Components <ul style="list-style-type: none"> <li>○ Loading Component</li> <li>○ Placing Components</li> <li>○ Modifying Properties</li> <li>○ Introduction to Modern Medium Library</li> </ul> </li> <li>• Managing Views <ul style="list-style-type: none"> <li>○ Floor Plan View</li> <li>○ Ceiling Plan View</li> <li>○ Cutting a Plan View</li> <li>○ Plan Region</li> <li>○ Elevation View</li> <li>○ Section View</li> <li>○ 3D Views</li> <li>○ Cropping a View</li> <li>○ Visibility and Graphics Display</li> <li>○ View Templates</li> </ul> </li> </ul>  |
| 6 | <ul style="list-style-type: none"> <li>• Dimensions <ul style="list-style-type: none"> <li>○ Temporary Dimensions</li> <li>○ Permanent Dimensions</li> </ul> </li> <li>• Constraints</li> </ul>   |

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|         | <ul style="list-style-type: none"> <li>○ Applying and Removing Constraints</li> </ul>  |
| 7       | <ul style="list-style-type: none"> <li>• Floors <ul style="list-style-type: none"> <li>○ Creating Floors</li> <li>○ Placing Elements on a Sloped Floor</li> </ul> </li> <li>• Ceilings <ul style="list-style-type: none"> <li>○ Creating Ceilings</li> </ul> </li> </ul>   |
| 8       | <ul style="list-style-type: none"> <li>• Roofs <ul style="list-style-type: none"> <li>○ Roof by Footprint</li> <li>○ Roof by Extrusion</li> <li>○ Join/unjoin roofs</li> <li>○ Roof Ridges</li> </ul> </li> <li>• Openings <ul style="list-style-type: none"> <li>○ On Face</li> <li>○ Vertical Opening</li> <li>○ Shaft opening</li> <li>○ Dormer opening</li> <li>○ Wall opening</li> </ul> </li> </ul>  |
| 9       | <ul style="list-style-type: none"> <li>• Curtain Walls <ul style="list-style-type: none"> <li>○ Creating Curtain Walls</li> <li>○ Curtain Grids</li> <li>○ Mullions</li> <li>○ Reshaping Curtain Wall Panels</li> <li>○ Merging Curtain Wall Panels</li> <li>○ Adding Curtain Door Panel</li> </ul> </li> <li>• Embedded Walls</li> </ul>  |
| 10      | <ul style="list-style-type: none"> <li>• Stairs <ul style="list-style-type: none"> <li>○ Creating Stairs</li> <li>○ Stair Calculator</li> <li>○ Modifying Stairs</li> <li>○ Stair Properties</li> </ul> </li> <li>• Ramp</li> <li>• Railing</li> </ul>   |
| 11 & 12 | <ul style="list-style-type: none"> <li>• Massing <ul style="list-style-type: none"> <li>○ Introduction</li> <li>○ Creating In-Place Masses using Forms <ul style="list-style-type: none"> <li>• Extrusion</li> <li>• Revolve</li> <li>• Sweeps</li> <li>• Loft</li> </ul> </li> <li>○ Modifying Forms <ul style="list-style-type: none"> <li>• Adding an Edge to a Form</li> </ul> </li> </ul> </li> </ul> |

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|    | <ul style="list-style-type: none"> <li>• Adding a Profile to a Form</li> <li>• Rehosting Forms</li> <li>○ Surface Forms <ul style="list-style-type: none"> <li>• Rationalizing Surface</li> <li>• Patterning Surface</li> </ul> </li> <li>○ Mass Family</li> <li>○ Creating Building Elements <ul style="list-style-type: none"> <li>• Walls</li> <li>• Mass Floors</li> <li>• Curtain System</li> <li>• Roofs</li> </ul> </li> </ul>      |
| 13 | <ul style="list-style-type: none"> <li>• Text &amp; Tag</li> <li>• Callout views</li> <li>• Creating Details <ul style="list-style-type: none"> <li>○ Inserting a Detail Component</li> <li>○ Repeating Detail</li> </ul> </li> <li>• Drafting Views <ul style="list-style-type: none"> <li>○ Import from CAD</li> </ul> </li> <li>• Reference Callouts</li> </ul>   |
| 14 | <ul style="list-style-type: none"> <li>• Schedules <ul style="list-style-type: none"> <li>○ Introduction</li> <li>○ Creating Schedule and Quantities</li> <li>○ Custom Parameters</li> <li>○ Modifying Schedules</li> <li>○ Material Takeoff</li> <li>○ Exporting Schedule</li> </ul> </li> </ul>  |
| 15 | <ul style="list-style-type: none"> <li>• Rooms <ul style="list-style-type: none"> <li>○ Room Plans</li> <li>○ Room Separation Line and Boundaries</li> <li>○ Room Schedule</li> <li>○</li> </ul> </li> <li>• Areas <ul style="list-style-type: none"> <li>○ Area Schemes</li> <li>○ Area Plans</li> <li>○ Area Boundaries</li> <li>○ Area Tags</li> <li>○ Color Schemes</li> </ul> </li> <li>• Legend Views</li> <li>• Keynotes</li> </ul> |
| 16 | <ul style="list-style-type: none"> <li>• Structural Modelling <ul style="list-style-type: none"> <li>○ Structural Template</li> <li>○ Structural Component Families</li> </ul> </li> </ul>   |

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

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| 22 | <ul style="list-style-type: none"> <li>• Design Option</li> <li>• Project Phasing</li> <li>• Export</li> </ul>   |
| 23 | <ul style="list-style-type: none"> <li>• Materials</li> <li>• Decal</li> <li>• Interference Checking</li> <li>• Customizing Project Settings <ul style="list-style-type: none"> <li>○ Fill Patterns</li> <li>○ Line Styles and Line Weights</li> <li>○ Line Patterns</li> </ul> </li> <li>• Import / Link</li> <li>• Groups</li> </ul>   |
| 24 | <ul style="list-style-type: none"> <li>• In-Place Families <ul style="list-style-type: none"> <li>○ Setting Work Planes</li> <li>○ Creating and Modifying In-Place Families</li> </ul> </li> </ul>   |
| 25 | <ul style="list-style-type: none"> <li>• Family Creation <ul style="list-style-type: none"> <li>○ Introduction</li> <li>○ Creating a Swing Door Family</li> </ul> </li> </ul>  |
| 26 | <ul style="list-style-type: none"> <li>• Family Creation <ul style="list-style-type: none"> <li>○ Creating a Sliding Window Family</li> <li>○ Creating Arch Window Family</li> </ul> </li> </ul>   |
| 27 | <ul style="list-style-type: none"> <li>• Family Creation <ul style="list-style-type: none"> <li>○ Creating a New Furniture Family</li> <li>○ Staircase Customization</li> </ul> </li> </ul>  |
| 28 | <ul style="list-style-type: none"> <li>• 2011 Updates <ul style="list-style-type: none"> <li>○ User Interface Enhancements</li> <li>○ Graphics Enhancements</li> <li>○ Updates in Massing</li> <li>○ Updates in Material</li> <li>○ Sheet Enhancements</li> <li>○ Floor Enhancements</li> <li>○ Sun Path Analysis</li> <li>○ Background Images in Rendering</li> </ul> </li> </ul> |
| 29 | <ul style="list-style-type: none"> <li>• 2011 Updates <ul style="list-style-type: none"> <li>○ Family Creation with Adaptive Components <ul style="list-style-type: none"> <li>• Curtain Panel Pattern 1</li> <li>• Curtain Panel Pattern 2</li> </ul> </li> </ul> </li> </ul>   |

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