

REVIT ARCHITECTURE TRAINING COURSE OUTLINE



BELL INSTITUTE OF TECHNOLOGY

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Duration: 2 weeks at 2 hrs per day

You can also do working days evening class and weekends (Sat) for just 2 weeks.

Required Good Knowledge in Windows and Building Design Knowledge/Training

(Cert/Dip or Deg in any Building Sciences Training)

Cost:

10,000/= Plus 500/= Registration Fee/= (USD 80) at the Training Centre in
Town. 15,000/= Plus 500/= Registration Fee/= at Client office within CBD

This cost includes:

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1. Certificates upon course completion
 2. Training Manuals
 3. Training workbook Exercises
 4. Payment made by Cheque or Through the Bank account or through Paybill Number. All to be provided upon request. No Cash payments to the Training Centre accepted.

Training is vital for the effective use of any software. Properly trained users will have increased productivity and will gain greater confidence with the software. It is a worthwhile investment to train new users to overcome their initial hesitancy and existing users to increase their depth of knowledge.

Our Revit Architecture course has been designed by AutoDESK for anyone new to REVIT ARCHITECTURE. No matter what background you are coming from REVIT ARCHITECTURE Training gives you the confidence to work on projects immediately upon your return to the office.

The primary objective of this course is to teach students the concepts of Building Information Modelling and introduce the tools for parametric building design and documentation using Revit Architecture.

SESSION, Each session has Max of 2 hours to complete and do the prevailing Exercises.	SUB-TOPICS
SESSION 1	<p>Introduction to Revit Architecture</p> <ul style="list-style-type: none"> • Starting a project • REVIT ARCHITECTURE Workspace-Palettes and tool bars, origin, Scale, preferences. • Introduction to Revit Architecture tools and menu • The Drawing Area of Revit Architecture • Tools and sub-tools BIM and Autodesk Revit • Overview of the Interface • Starting Projects • Viewing Commands Chapter <ul style="list-style-type: none"> ○ Floor plan views ○ Ceiling plan view ○ View properties ○ View Range ○ Plan Region ○ Elevation view ○ Cut a view by Far Clip Plane ○ Section View ○ Creating Section head ○ 3D views ○ Cropping a View ○ Visibility or Graphics Display <ul style="list-style-type: none"> ▪ Specifying Element Category Visibility ▪ Overriding Graphics Display of Element Category ▪ Overriding Visibility and Graphics Display of Individual Elements ○ View Templates

	<ul style="list-style-type: none"> • <p>Walls</p> <ul style="list-style-type: none"> • Straight walls, Rectangular walls, Circular • Wall settings (Height, Thickness, Edged, etc) • Viewing Walls in 2D and 3D (Rotating Walls in 3D, Zooming, Moving in 2D and 3D) • Editing and modifying walls heights, thickness, • Cutting (trimming walls, Extending walls) • Creating space within walls using TRIM tool. Setting Up Levels • Creating Structural Grids • Adding Columns • Linking and Importing CAD Files • Design Development Phase • Creating Curtain Walls • Adding Curtain Grids • Working with Curtain Wall Panels • Attaching Mullions to Curtain Grids <p>Exercise 1 (Walls, Types, Shapes)</p>
SESSION 2	<p>Doors and Windows Settings</p> <ul style="list-style-type: none"> • Adding doors and Windows to the walls. • Doors and windows sizes and types • Moving windows and doors within the walls • Doors and windows advanced settings • Modeling doors and windows • Inserting slabs • Setting the View Display • Duplicating Views • Adding Callout Views • Elevations and Sections <p>Exercises 2.</p>

<p>SESSION 3</p>	<p>Wall Dimensions</p> <ul style="list-style-type: none"> • Drawing walls to particular dimension • Extending walls to particular dimension • Inserting doors and Windows to dimensions • Using the marque tools to view small sections in 3D • Columns and Beams Modeling Ceilings • Adding Ceiling Fixtures • Creating Ceiling Soffits <p>Rooms</p> <ul style="list-style-type: none"> • Schedule keys • Area • Color Schemes • Legend Views • Keynotes • Practice: Find out the total area, Place rooms and prepare room schedule <p>Exercise 3.</p>
<p>SESSION 4</p>	<p>Objects</p> <ul style="list-style-type: none"> • Inserting objects to the plan • Internal and external objects • Changing object settings and properties • Backgrounds of Revit Objects • Importing Objects for use form the internet • Using own modeled objects
<p>SESSION 5</p>	<p>Roofs and roof Settings</p> <ul style="list-style-type: none"> • Using the various roof tools to insert roofs (Automatic and Manual Roofs) • Creating openings • Adding new roofs • Separating roofs, Modifying roofs • Trimming roofs to walls • Adding skylights to roofs • Changing roof materials and color • Building complex roofs. <ul style="list-style-type: none"> ○ Roof by Footprint ○ Roof by Extrusion ○ Shape editing for Floors and Roofs ○ Join/Unjoin Roof ○ Roof Soffit ○ Roof Fascia • Roof Gutter <p>Exercise 4 (Roofs)</p>

SESSION 6	<p>Stairs and Stories</p> <ul style="list-style-type: none"> • Inserting Stories • Story Settings • Inserting Balcony and Rails to balcony • Different types of Stairs • Slab OpeningsCreating Component Stairs • Modifying Component Stairs • Working with Railings • Sketching Custom Stairs • Creating Ramps • Construction Documents Phase • Stairs <ul style="list-style-type: none"> ○ Creating Stairs <ul style="list-style-type: none"> ▪ Creating Stair by sketching Runs ▪ Creating Stair by sketching Boundary and Riser ▪ Spiral Staircase ▪ Stair Calculator ○ Specifying Railing Types for New Stairs ○ Modifying Stair • Ramp • Railings <ul style="list-style-type: none"> ○ Adding Railing ○ Modifying Rail Structure ○ Modifying Rail Joins • Practice: Hands On <p>Exercise 6 (Stories and Stairs)</p>
SESSION 7	<p>Sections and Elevations</p> <ul style="list-style-type: none"> • The sections and Elevation tool • Viewing Sections and Elevations • Creating new sections and Elevations • Fillings Sections and Elevations (The Fill Tool) • Labeling Sections and Elevations <p>Exercise 7. (Sections And Elevations)</p>
SESSION 9	<p>Detailing using Revit Architecture</p> <ul style="list-style-type: none"> • Building Detailing and Labeling • Using Different Fills while detailing • REVIT Rendering • Schedules <ul style="list-style-type: none"> ○ Schedule/ Quantities ○ Material Take Off ○ Annotation Schedule or Note Block • Practice: Prepare Door and window schedule for Residential Building.rvt <p>Exercise 9: Detailing a Design.</p>

	<ul style="list-style-type: none"> • Site Design <ul style="list-style-type: none"> ○ Toposurfaces ○ Subregion ○ Split Surface ○ Merge Surface ○ Building Pad ○ Graded Region ○ Parking Components ○ Site Components <p>Contour line Labels</p>
SESSION 10	<p>Plotting</p> <ul style="list-style-type: none"> • Placing 2D and 3D Designs on plottingpaper • Placing Sections and Elevations on Plottingpaper • Paper sizes and Layouts • Exporting to PDF • Printing • Sheets • Title Blocks • Adding Sheet • Adding Views on Sheet • Sheet list • Export • Export to CAD format • Exporting to DWG or DXF • Exporting to DWF format • Printing <p>Exercises 10: on Plotting</p>
SESSION 11 PROJECT WORK	<p>A student would, be provided with a working project on Revit Architecture. Timely finish the project is important. When you finish the project, do fill the Certificate application form.</p>

RECOMENDATION: We further recomend course participants to study ArtLANTIS or Piranessi or Lumio Rendering systemest to be able to produce presentatble designs.

SOME SAMPLE PROJECT WORK YOU SHOULD BE ABLE TO DO AT THE END OF THE COURSE



Building House Plan Designs

3D BUILDING HOUSE DESIGNS UAING REVIT ARCHITECTURE









