

ArchiCAD training Syllabus

3D modeling over 2D Drafting

- Introduction to BIM
- Highlighting features of ArchiCAD and BIM
- ArchiCAD file system
- Exploring startup dialog box
- Introduction to workspace elements - tool box; Info box; Control box; navigator; navigator preview; coordinate box; user origin; special snap points; floor plan window and 3D window
- Working units settings
- Grids and background settings
- Working with WALLTOOL
- Exploring WALL TOOL settings dialog box

WALLEND TOOL

- Creation of LOG WALLS
- Wall editing methods:- EDIT menu options – DRAG, DRAG A COPY, ROTATE, ROTATE A COPY, MIRROR, MIRROR A COPY, SPLIT, ADJUST, INTERSECT, MULTIPLY, etc
- Wall editing options with PET PALETTE: - Drag, Rotate, Mirror, Elevate, Multiply, Stretch. (Shortcut Keys for Single Copy & Multiple Copy)
- Align 3D texture
- Cursor intelligence and object selection methods Functions of Pickup parameters, inject Parameters Exploring control box
- Relative construction methods:- Creating parallel walls, perpendicular walls , bisector walls , single and multiple wall offsets
- Settings
- Cursor navigation in FLOORPLAN WINDOW and 3D WINDOW with NAVIGATOR PREVIEW box

Working with BEAM TOOL

- BEAM editing with EDIT MENU options and PET PALETTE
- Creating and modifying beam holes
- Exploring BEAM TOOL settings dialog box
- Beam intersection priority
- Working with COLUMN TOOL

- Exploring COLUMN TOOL settings dialog box
- Working principles of WRAPPED and UNWRAPPED columns

Creating STRUCTURAL GRID, GRID ELEMENT TOOL

- GRID ELEMENT settings
- Working with SLAB TOOL
- Exploring SLABTOOL settings dialog box
- SLAB editing with EDIT MENU options and pet palette
- Creating opening in slab

Working with WINDOW TOOL

- Exploring WINDOW TOOL settings dialog box
- CORNER WINDOW TOOL and settings
- Significance of hot spots
- Working with DOOR TOOL
- Exploring DOOR TOOL settings dialog box
- Empty openings in wall

Working with OBJECT TOOL

- Furniture's, peoples, gardens, office equipments etc.,
- Placement and parametric editing techniques with GDL objects
- Adding images (.jpg files) into OBJECT TOOL

Working with CURTAIN WALL TOOL

- Exploring CURTAIN WALL TOOL settings dialog box
- Working with ROOF TOOL
- Exploring ROOF TOOL settings dialog box
- Modification of roof thickness
- Create roof level lines
- ROOF editing with EDIT MENU options and PET PALETTE
- Skylight placement on roofs

STAIR TOOL

- Parametric editing with GDL stairs
- Creating and modifying user defined stairs
- Stair creation with fill tool
- 2D to 3D conversion techniques with MAGIC WAND
- MAGIC WAND SETTINGS dialog box

Working with 2D objects

- LINE tool, ARC/CIRCLE tool, POLYLINE tool, SPLINE tool
- UNIFY and EXPLODE options
- Adding TEXT and LABEL to the 2D drawings
- Exploring TEXT TOOL and LABEL TOOL settings dialog box
- PROJECT ORGANIZATION with LAYER
- Introduction to default ArchiCAD Layer setup
- Layer properties
- Creating user defined LAYERS and LAYER COMBINATIONS

General construction methods with MESH TOOL Creation of landscape contours with open and closed

- SPLINES
- Swimming pool creation
- MESH TO ROOF conversion
- Exploring the STORY SETTINGS dialog box
- Story navigation in floor plan; Significance of ghost story using TRACE
- Selection procedures with MARQUEE TOOL
- Generating 3D sections using 3D CUTTING PLANES and 3D CUT AWAY

PROJECT ORGANIZATION with ATTRIBUTES

- Working with default line types, fill types, pen and color, Composites and material library
- Creating new materials and modifying default materials using material customization procedures
- Creating user defined attributes
- Managing attributes with ATTRIBUTE MANAGER Display options
- Significance of HOT SPOT TOOL

ZONE TOOL

- Conceptual applications of ZONE TOOL
- ZONE CATEGORIES
- INTERIOR ELEVATION TOOL
- DETAIL TOOL
- WORKSHEET TOOL
- SECTIONTOOL and ELEVATION TOOL:- Generating 2D sections and elevations from plan

Object customization with SOLID ELEMENT OPERATIONS

- Profiler Creation
- Creation of simple GDL objects
- Working with wall accessories, slab accessories, roof Accessories and Truss maker

DIMENSIONING

- Creating automatic exterior and interior dimensions
- DIMENSION TOOL:- Adding Linear dimensions, radial dimensions, angular dimensions and level dimensions to the FLOOR PLAN
- Utility of Gravity tool
- Generation of ELEMENT LIST, COMPONENT LIST and ZONE LIST and window schedule
- Exploring INTERACTIVE SCHEDULE preview and settings dialog box
- Working units settings
- Schedule preparation for the model
- Estimation of AREA, VOLUME and COST with user specified data

LAMP TOOL

- Working with GDL lamp objects and light sources
- Exploring 3D window settings and photo rendering settings dialog box
- Photo render projection
- 3D engine and mode
- Efficiency of rendering engines in ArchiCAD
- Concepts of teamwork

Working with view sets and perspectives in 3D WINDOW

- Exploring 3D NAVIGATION PALETTE
- Conceptual applications of SUN STUDY

CAMERA TOOL

- Working with CAMERA TOOL
- Exploring the tool settings and 3D projection settings dialog box
- Creating FLY THROUGH (walk through)
- Creating VR objects and VR scenes

Attaching 2D XREF and XREF MANAGEMENT

- Creating MODULES and HOT LINK MANAGER
- PROJECT NAVIGATION:- View sets creation
- Working procedures with PROJECT NAVIGATOR and PUBLISHER
- Translator settings
- Merging 2D drawings in ArchiCAD
- Exporting 2D/ 3D drawings from ArchiCAD
- PRINTING AND PUBLISHING from ArchiCAD
- Introduction to PLOT LAYOUTS and PLOT SETTINGS