

# **Graphisoft Archicad Professional**

## **1. TARGET AUDIENCE:**

This course is designed for professionals and students involved in Building Information Modeling (BIM) and architectural design, including:

- Architects and Architectural Designers
- BIM Modelers and BIM Coordinators
- Civil and Structural Engineers
- Interior Designers
- CAD Professionals transitioning to BIM
- Revit, AutoCAD, and SketchUp Users moving to Archicad
- Construction and Project Engineers
- Design Consultants
- Architecture and Civil Engineering Students
- Professionals seeking Graphisoft Archicad certification

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## **2. COURSE OBJECTIVE:**

This course aims to provide learners with the knowledge and practical skills required to create, manage, document, and present Building Information Models using Graphisoft Archicad.

Participants will learn industry-standard BIM workflows, architectural modeling, project documentation, visualization, collaboration, and interoperability to efficiently deliver real-world architectural projects.

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## **3. COURSE OUTCOMES:**

Upon successful completion of this course, learners will be able to:

- Understand BIM concepts and the Graphisoft Archicad workflow.
- Navigate and customize the Archicad work environment.
- Create architectural BIM models using walls, slabs, roofs, stairs, curtain walls, doors, and windows.
- Develop terrain models and integrate survey data into projects.
- Manage libraries, objects, materials, and parametric components.

- Create professional project documentation, including plans, sections, elevations, schedules, and layouts.
  - Produce realistic visualizations, renderings, animations, and BIMx presentations.
  - Collaborate using Teamwork and understand BIMcloud workflows.
  - Exchange project data using DWG, IFC, and other Open BIM formats.
  - Complete an industry-standard architectural project from concept to construction documentation.
  - Build and manage custom Tool Chests for standardized project workflows.
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#### 4. COURSE OUTLINE:

The course comprises **40 hours** of instructor-led theory, demonstrations, and hands-on practical exercises and is divided into **10 comprehensive modules**. Each module is designed with real-world architectural design scenarios, guided exercises, and project-based activities to help learners develop practical skills in Building Information Modeling (BIM), architectural modeling, project documentation, visualization, collaboration, and Open BIM workflows using **Graphisoft Archicad**. By the end of the course, participants will be able to create, document, coordinate, and present complete architectural BIM projects following industry best practice

#### Module 1: Getting Started with Archicad

- Introduction to BIM
- Getting Started with Archicad
- Archicad User Interface
- Work Environment
- Navigation Tools
- Project Preferences
- File Management
- Keyboard Shortcuts

#### Module 2: Transition to Archicad

- Getting Started with Archicad for Revit Users
- Getting Started with Archicad for CAD Users

- Getting Started with Archicad for SketchUp Users
- Differences Between BIM and CAD Workflows
- Importing DWG Files
- Working with Trace Reference

### **Module 3: Architectural Modeling**

- Start Modeling with Archicad
- Walls
- Columns
- Beams
- Slabs
- Roofs
- Shells
- Stairs & Ramps
- Doors & Windows
- Curtain Walls

### **Module 4: Site Development & Structural Modeling**

- Terrain (Mesh Tool)
- Cut & Embankment
- Project Base Point & Survey Data
- Structural Elements
- Structural Integrated Design
- Structural Modeling Workflow

### **Module 5: Libraries, Objects & Parametric Design**

- Library Management
- Bathroom & Kitchen Components
- Furniture

- Equipment
- Vegetation
- Create Custom Objects with Archicad
- Parametric Complex Profiles
- Getting Started with Param-O
- Get Started with Parametric Design

## Module 6: Documentation & Detailing

- Get Started with Project Documentation
- Create Engaging Drawings in Archicad
- Text & Dimensions
- Sections
- Elevations
- Interior Elevations
- 3D Documents
- Get Started with Project Detailing in Archicad

## Module 7: Schedules & Collaboration

- Get Started with Scheduling in Archicad
- Interactive Schedules
- Quantity Takeoff
- Layout Books
- Publish PDF/DWG
- Teamwork in Archicad
- BIMcloud Overview
- Share Your Archicad Project with BIMx

## Module 8: Visualization & Conceptual Design

- Get Started with Conceptual Design
- Take Your Schematic Model to the Next Stage
- Create Fast Visualization in Archicad
- Materials & Surfaces
- Lighting
- Sun Study
- Walkthrough & Animation

## Module 9: Interoperability & Industry Workflows

- Work with DWG and Point Clouds
- IFC Workflow
- Open BIM Collaboration
- Revit Interoperability
- BIMx Workflow
- Model Exchange Best Practices
- Project Coordination

## Module 10: Industry Project & Structural Workflow

- Structural Engineers – Getting Started with Archicad
- Structural Engineers – Getting Started with Archicad for Revit Users
- Structural Engineers – Getting Started with Archicad for CAD Users
- Structural Engineers – Start Modeling with Archicad
- Complete Residential Project
- Documentation & Publishing