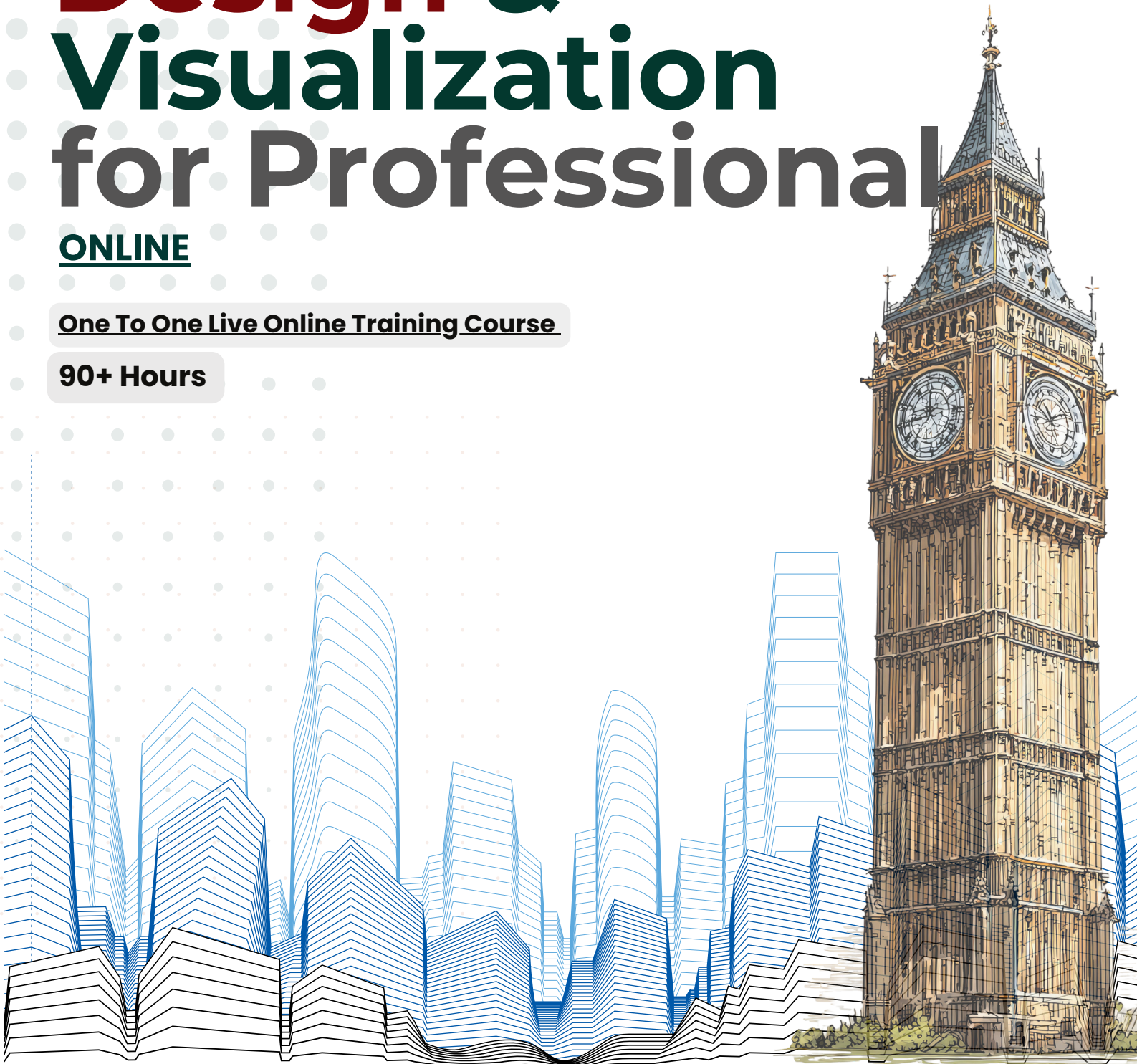


Advance
**Architectural
Design &
Visualization**
for Professional

ONLINE

One To One Live Online Training Course

90+ Hours



CERTIFIED BY



+91-8982068730
www.castallio.com
www.learning@castallio.com

Course Overview

Advance Architectural Design & Visualization for Professional

Duration:- 90+ Hours

This specialized Advanced Architectural Design & Visualization for Professionals Course is designed for architects, interior designers, civil engineers, design professionals, working professionals, and students who aim to gain expertise in modern architectural modeling and high-quality design visualization.

The course focuses on practical design workflows, visualization techniques, and real-world building and interior design projects used in professional studios. Participants will learn how to transform conceptual ideas into photorealistic visualizations and presentation-ready architectural designs aligned with global architecture and design industry standards

Key Features



Live One-to-One Training
Personalized learning experience with expert trainers



Hands-on Training
with Industry-Leading Architectural & BIM Software



Live Project Training
Learn by Doing!



Career Advancement
Enhance your Design skills to stay ahead in the industry

*"If you consistently practice daily and complete project work on time, we **guarantee 100%** placement to help you secure a job in the AEC industry."*

Software Covered in the Course



LUMION



D5 RENDER



AUTODESK Revit
ARCHITECTURE



This course is ideal for Architects, Interior Designers, Civil Engineers, Design Professionals, and AEC industry aspirants who want to strengthen their expertise in modern architectural modeling and high-quality design visualization using industry-standard tools.

Whether you are a working professional or a student, this program equips you with the technical skills, hands-on design knowledge, and real-world project experience required to create detailed architectural models, professional interior layouts, and photorealistic renders using SketchUp, Lumion, D5 Render, and Revit Architecture.

Participants will learn how to develop complete architectural concepts, produce high-quality visual presentations, and communicate design ideas effectively, preparing them to work in modern architecture and interior design studios aligned with global AEC industry standards.

Course Modules

Industry Focus: Architects, Interior Designers, Civil Engineers, Design Professionals, Working Professionals, and Students within the Architecture, Interior Design, and AEC Industry seeking to develop expertise in digital architectural design and professional visualization workflows

Modules

Table of contents

Duration

Module 1

Introduction to Architectural Design Tools

120 MIN

Understanding Design & Visualization Fundamentals

- Overview of modern architectural design workflows
- Introduction to SketchUp, Lumion, and D5 Render ecosystem
- Understanding 3D architectural modeling concepts
- Exploring software interface and workspace setup
- Understanding project file formats and workflow
- Overview of architectural visualization pipeline

Module 2

Architectural Modeling Fundamentals (SketchUp).

38 HOURS

Introduction to SketchUp Interface & Workspace

- Understanding SketchUp workspace and customization
- Navigation Tools: Orbit, Pan, Zoom
- Basic Drawing Tools: Line, Rectangle, Circle, Polygon

3D Modeling Fundamentals

- Push/Pull tool and solid geometry creation
- Move, Rotate, Scale tools
- Creating architectural elements: walls, doors, windows
- Creating openings, niches, and wall detailing
- Working with precise measurements and snapping tools

Professional Modeling Workflow

- Groups vs Components for model efficiency
- Creating reusable parametric components
- Model hierarchy and layer/tag management
- Scenes setup for presentation and workflow organization
- CAD & Project Integration
- Importing CAD plans from AutoCAD
- Cleaning and preparing CAD drawings for modeling
- Scaling and aligning CAD references
- Setting project coordinates and model accuracy

Architectural Modeling

- Modeling floors, slabs, staircases & roofs
- Creating complex roof structures
- Curtain walls and façade modeling
- Balcony, railing, and façade detailing
- Terrain modeling and site context creation

Advanced Modeling Techniques

- Solid tools for complex geometry creation
- Sandbox tools for landscape modeling
- Creating custom materials and textures
- Texture mapping and UV adjustments
- Using plugins to enhance modeling workflow
- Visualization Preparation
- Using 3D Warehouse assets efficiently
- Optimizing models for rendering software
- Creating camera views and scene composition
- Exporting models for Lumion & D5 Render workflow

Live Practice

- 4+ Residential, commercial and complex building modeling project
- Live Projects Practices

Course Modules

Modules

Table of contents

Duration

Module 3

Lumion Syllabus (Rendering & Walkthrough)

30 HOURS

Materials & Surface Detailing

- Applying and editing materials
- Using advanced PBR materials (glass, metal, concrete, wood, water, etc.)
- Custom texture mapping and material adjustments
- Reflection and glossiness settings
- Creating realistic glass and reflective surfaces

Lighting & Environment

- Sun settings and daylight control
- Realistic sky and HDRI lighting
- Artificial lighting for interiors
- Night lighting setup and mood lighting
- Light intensity and shadow optimization
-

Landscape & Environment Creation

- Landscape tools and terrain sculpting
- Adding trees, plants, grass, and vegetation
- Placing people, vehicles, and urban assets
- Creating realistic outdoor environments
- Weather effects and atmosphere settings
- Rendering & Visualization
-

Photo rendering techniques

- *Realistic effects: shadows, reflections, ambient occlusion*
- *Depth of field and cinematic camera composition*
- *Reflection planes and lighting optimization*
- *Creating photorealistic exterior and interior renders*

Animation & Walkthrough

- *Creating architectural walkthrough animations*
- *Camera path creation and animation controls*
- *Cinematic movement and scene transitions*
- *Animation effects for presentation videos*

Output & Professional Presentation

- *Exporting high-quality images and videos*
- *Render settings for marketing visuals*
- *Optimizing render quality vs render time*
- *Preparing visuals for client presentations*

Live Project Practice

- *Exterior visualization of a residential building*
- *Interior rendering project*
- *walkthrough animation*

Module 04

D5 Render Syllabus (Real-Time Rendering)

15 HOURS

Introduction to D5 Render interface and workflow

- Importing SketchUp models
- Applying and editing PBR materials
- Glass, metal, and reflective materials setup
- HDRI lighting and environmental lighting
- Artificial lighting for interiors
- Vegetation, people, and asset placement
- Weather, fog, and atmospheric effects
- Real time rendering workflow
- Camera settings and composition
- High quality photo render output
- Basic animation and walkthrough export

Course Modules

Modules

Table of contents

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- High quality photo render output
- Basic animation and walkthrough export

Course Modules

Modules

Table of contents

Duration

Module 5

Revit Architecture BIM Modeling

30 HOURS

Introduction & Project Setup

- Introduction to Autodesk Revit interface and workspace
- Understanding BIM-based architectural workflow
- Navigation tools: Zoom, Pan, Orbit, ViewCube
- Project setup: units, templates, levels, and grids
- Understanding project browser and properties pane

Architectural Modeling

- Wall creation and editing (basic & compound walls)
- Door and window placement and customization
- Floor and slab creation
- Roof modeling techniques (roof by footprint / roof by extrusion)
- Ceiling creation and ceiling grid systems
- Stair creation and railing design
- Curtain walls and façade systems

Interior Layout & Architectural Components

- Furniture placement and interior layout planning
- Using and creating Revit families
- Architectural components and parametric objects
- Material assignment and finishes
- Room creation, area calculations, and schedules

Documentation & Shop Drawings

- *Creating floor plans, sections, and elevations*
- *Working with 3D views and visual styles*
- *View templates and view management*
- *Annotation tools: dimensions, tags, and text*
- *Sheet creation and professional drawing layout*

Animation, Walkthrough, Visualization & Presentation

- *Applying materials and graphic settings*
- *Basic rendering and visualization in Revit*
- *Camera views and perspective views*
- *Preparing presentation views for client meetings*

Collaboration, Output & Live Project Practice

- *Linking CAD files and external references*
- *Model organization and project management*
- *Exporting drawings to PDF and CAD formats*
- *Preparing construction documentation sets*
- *Live Project Practice*
- *Exterior visualization of a residential building*
- *Interior rendering project*
- *walkthrough animation*

Module 6

Photoshop for Presentation & Portfolio

360 MIN

- Introduction to Photoshop interface and workspace for architectural visualization
- Post-production of architectural renders (lighting, color correction, shadows, and effects)
- Creating professional presentation boards for architecture and interior design projects
- Adding people, trees, sky, and environment elements to enhance renders
- Designing a professional architecture portfolio layout for client presentations and job applications

REGISTRATION

Advance Architectural Design & Visualization
for Professional

ENROLLMENT PROCEDURE

FILL OUT THE
REGISTRATION
FORM

1

2

PROVIDE BASIC DETAILS (NAME,
EMAIL, CONTACT NUMBER,
QUALIFICATION, EXPERIENCE).

RECEIVE YOUR
LETTER OF
ADMISSION

3

4

CHOOSE PAYMENT METHOD
(ONLINE TRANSFER, UPI,
CREDIT/DEBIT CARD)

START LEARNING
& PROJECT
WORK

5

FULL ARCHITECTURE COURSE

39,999/-

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