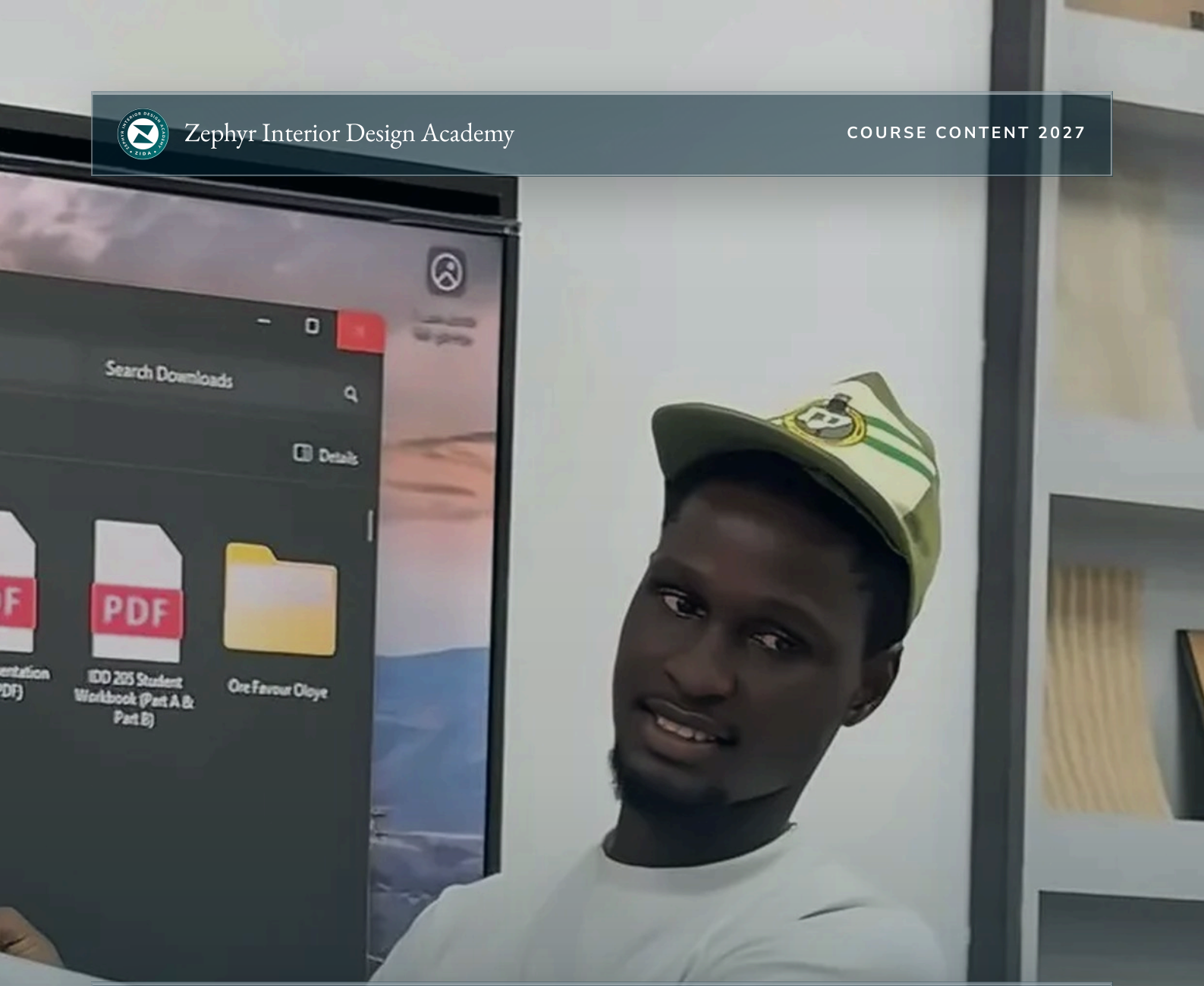


COMPUTER CLASSES

AutoCAD, SketchUp and V-Ray

Draw it precisely, model it in 3D, and render it so clients can see it. A ten-week course for interior designers, taught on real projects.

10 weeks | AutoCAD: weeks 1 to 5 | SketchUp and V-Ray: weeks 6 to 10

Tuesdays and Thursdays | Abuja · Port Harcourt

ABOUT THE COURSE

From floor plan to photorealistic render.

10 weeks
AutoCAD first, then SketchUp and V-Ray

2 days
Tuesdays and Thursdays, 9am to 1pm

1 portfolio
project combining 2D, 3D and renders

What you will be able to do

- Draft accurate 2D drawings in AutoCAD: floor plans, elevations and sections
- Annotate, dimension and lay out drawings professionally
- Build detailed 3D models in SketchUp
- Render lifelike images with V-Ray
- Bring 2D and 3D together in SketchUp Layout for presentations

Who it is for

A beginner-friendly course for people with no experience of AutoCAD, SketchUp or V-Ray:

- Aspiring interior designers and architects
- Students and professionals in related fields
- Fundamentals graduates ready to present their work properly

You can take the whole course, or AutoCAD (4 weeks) and SketchUp with V-Ray (6 weeks) separately.

How it runs

- Two classes a week, Tuesdays and Thursdays, 9am to 1pm
- Every session is hands-on at your own laptop
- Homework is practice: repeat the tools and commands taught in class
- Taught at the Abuja and Port Harcourt Training Centres

RECOGNITION

Recognised and accredited.

NBTE-approved Skill Training Centre

NATIONAL BOARD FOR TECHNICAL EDUCATION

Register code 167042.

ACTD accredited

AMERICAN COUNCIL ON TRAINING AND DEVELOPMENT

Listed in ACTD's Interior Design and Decoration category.

Registered IDCEC CEU Provider

INTERIOR DESIGN CONTINUING EDUCATION COUNCIL

Three IDCEC-approved courses (CEU-126503, CEU-126514 and CEU-126731), covering 18 of our modules.

Partner of IDAN

INTERIOR DESIGNERS ASSOCIATION OF NIGERIA

Every full-time Diploma student becomes a Student Member of IDAN.

On this course

You train with an NBTE-approved, ACTD-accredited academy and a Registered IDCEC CEU Provider, and leave with a portfolio project combining AutoCAD, SketchUp and V-Ray.

Independent quality assurance

Assessment and internal verification are overseen by a Quality Assurance Adviser and an Internal Quality Assurance Manager, separate from teaching. Certificates are awarded only on demonstrated achievement.

Every recognition links to the body's own register at zida.com.ng/recognition, so you can check it yourself.

BEFORE YOU START

What to bring to class.

What to bring

- A Windows laptop that meets the specification below. MacBooks are not supported
- A USB drive of at least 32GB for resources and project files
- Time to practise outside class: homework is practice, practice and more practice
- Some knowledge of architecture or interior design helps, but is not required

REQUIRED

Laptop specification

Bring a Windows laptop that meets this specification to every class. MacBooks are not supported.

PROCESSOR Intel Core i7 or i9 (11th generation or newer), or AMD Ryzen 7 or 9	**GRAPHICS CARD** NVIDIA GeForce RTX 3060 or better, or AMD Radeon RX 6700 XT or better. At least 6GB VRAM, 8GB preferred
MEMORY (RAM) 16GB minimum, 32GB for heavy projects	**STORAGE** 512GB or 1TB SSD, plus an external drive for files
DISPLAY 15.6 inches or larger, Full HD or 4K	**OPERATING SYSTEM** Windows 11, 64-bit
COOLING Good cooling: rendering generates heat	**PORTS AND POWER** USB-C, USB-A and HDMI ports; plug in while rendering

COURSE OUTLINE

AutoCAD WEEKS 1 TO 5

Week 1 — Introduction to AutoCAD

- AutoCAD's interface and tools, and a workspace set up for interior design
- Drawing and modifying objects; layers, line types and line weights
- Units, scales and limits; snap, grid and object snap
- Drawing walls, doors and windows; first annotation and dimensioning

Week 2 — Floor plans and furniture layouts

- Detailed 2D floor plans: walls, openings and structural elements
- Dimensions and annotation on floor plans
- Functional furniture arrangements with blocks and symbols
- Layer management and annotated furniture layouts

Week 3 — Ceiling plans, partitions, elevations and sections

- Reflected ceiling plans: lighting, soffits, HVAC elements and hatch patterns
- Partition plans and how they coordinate with floor plans
- Interior elevations showing finishes, fixtures and details
- Cross-sections and detail sections with notes and material specifications

Week 4 — Advanced details and schedules

- Millwork and joinery: cabinet elevations, hardware, finishes and dimensions
- Door and window schedules
- Finish, furniture and lighting schedules coordinated with the drawings

Week 5 — AutoCAD project

- A complete set of 2D drawings on a real interior project

COURSE OUTLINE

SketchUp and V-Ray WEEKS 6 TO 10

Week 6 — SketchUp basics and interface

- Navigation, toolbars and an efficient workspace
- Orbit, pan and zoom; basic 2D and 3D shapes, axes and inferences
- Groups, components, layers and tags
- Importing AutoCAD files into SketchUp

Week 7 — Building 3D models

- Walls, floors and ceilings to precise dimensions
- Doors, windows and openings; push/pull and follow-me
- Furniture and fixtures from the 3D Warehouse, scaled and placed
- Materials on furniture, and clean, organised models

Week 8 — Advanced SketchUp techniques

- Editing materials and importing custom textures
- Building a material library; mapping and scaling textures
- Point lights, spotlights and directional lights
- Natural light by location and time of day, and shadow studies

Week 9 — Rendering with V-Ray

- V-Ray for SketchUp: interface and workflow
- Cameras, views and V-Ray materials
- Global illumination, reflections and refractions
- Natural and artificial lighting, and high-quality renders for presentation

Week 10 — Final project and assessment

- A full project combining AutoCAD drawings, SketchUp models and V-Ray renders
- 2D plans presented with 3D views, peer review and feedback
- Finalising the project for your portfolio

ASSESSMENT AND OUTCOMES

How you are assessed, and where you finish.

Assessment

- **Weekly assignments** that reinforce each session
- **Mid-course project:** a detailed set of 2D plans in AutoCAD
- **Final project:** a complete design package combining AutoCAD drawings, SketchUp models and V-Ray renders

Resources

- Access to AutoCAD, SketchUp and V-Ray in class
- Tutorials, reading materials and templates
- Support from your facilitators and classmates

By the end of the course you will

- Produce professional 2D drawings in AutoCAD
- Build detailed, accurate 3D models in SketchUp
- Create high-quality rendered visuals in V-Ray
- Have a portfolio project and the confidence to execute interior design projects with precision

The schedule may move with the pace of each class.

Talk to us

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ADMISSIONS	admissions@zida.com.ng
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PH TRAINING CENTRE	1st Floor, BICS Mall, 61 Olusegun Obasanjo Road, Port Harcourt
WEBSITE	zida.com.ng
REGISTER	zida.com.ng/register