HEXINOX

CIVIL ENGINEERING

INDUSTRY READY CERTIFICATION PROGRAMME

SKETCHUP WITH V-RAY



COHORT BASED | 8 MODULES | REAL TIME PROJECT

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HEXINOX STORY

IN THE FIRST 7 MONTHS OF OUR JOURNEY



OUR GOAL

Empowering Youth, Fostering Opportunities

3850+

Students Upskilled

IN LAST 6 MONTHS

4.7

AVG. GOOGLE RATING
OUT OF 217+ REVIEWS

JUST IN H1 2025

5 Industry Training Programmes

CO-HOST EVENTS WITH

SCMS School of Engineering & Technology

AMRITA VISHWA VIDYAPEETHAM

MBITS

INDUSTRY MENTORS FROM

Google, CRED, TOYOTA, Trellix, Schneider Electric, ATLASSIAN, VOLVO, MG, BYD, SIEMENS, Concept Dash, DSA ARCHITECTS INTERNATIONAL



6+
CONTESTS HOSTED

2 LAKHS INR+ CASH PRIZE DISTRIBUTED



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THE HEXINOX EDGE

MENTORSHIP. COMMUNITY. OPPORTUNITIES.



Live Online MasterClasses by Industry Experts from Top Firms

Discord Server For Every Course
With Peers, Mentors & Subject Experts

Resume & Portfolio Building MasterClass



Success Mentors
To Keep You In Check & Provide Assistance

Weekend Doubt Clearance Sessions with Subject Experts



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WHY **SKETCHUP WITH V-RAY?**

Industry Standard & Future Ready

From architecture and interior design to product design and urban planning, SketchUp is globally recognized, widely adopted, and constantly evolving to meet industry demands.

Extensive 3D Warehouse & Resource Library



Integrated Project Visualization

SketchUp seamlessly combines 2D drawings with 3D modeling, ensuring all stakeholders understand the project vision clearly from concept to completion.

True Parametric Flexibility & Smart Modeling

Dynamic components and plugins allow users to create intelligent, adaptable models that reduce repetitive tasks and improve design accuracy.

Efficiency, Cost Savings & Competitive Edge

With its intuitive interface and user-friendly tools, SketchUp allows designers to work faster, cut down learning curves, and save time in conceptual and detailed modeling.

Seamless Collaboration & Extensions

With Trimble Connect and a vast extension warehouse, SketchUp enables multi-disciplinary teamwork, file sharing, and integration with other design tools for smooth collaboration.

EXTENSIVE **SYLLABUS**

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Introduction & Interface M1

- What is SketchUp? Real-world industry use cases
- User interface, navigation tools
- Drawing tools: lines, arcs, rectangles, circles
- Inference system and precision modeling

3D Modeling Basics M2

- Push/Pull. Follow Me, Offset tools
- Groups and components
- Move, Rotate, Scale, Mirror
- Working with axes and guides

Architectural Modeling - Exterior M3

- Creating floor plans into 3D buildings
- Walls, floors, roofs, doors, and windows
- Editing geometry with precision
- Importing DWG floor plans (AutoCAD to SketchUp workflow)

Interior Modeling & Materials M4

- Interior spaces: rooms, stairs, railings
- Using materials and textures
- Importing and editing textures
- UV mapping basics

EXTENSIVE **SYLLABUS**

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SketchUp Components & 3D Warehouse M5

- Downloading from and uploading to 3D Warehouse
- Creating reusable components
- Furniture, fittings, and entourage
- Organizing with layers/tags

Scenes, Stvles & Lavout Documentation M6

- Creating scenes and styles
- Shadow settings and sun study
- Introduction to SketchUp Layout (2D documentation)
- Annotating and printing layouts

Rendering with V-Ray for SketchUp M7

- Introduction to V-Ray
- Applying lights and materials
- Camera and composition settings
- Rendering high-quality stills

Project Based Learning M8



Real-world modeling project

Residential villa, commercial building, or site planning

Full modeling from floor plan to presentation





Export images, animations, and documentation sheets

BUILDING PORTFOLIO

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PROJECT: RESIDENTIAL SITE WITH 3D LAYOUT AND PRESENTATION

3D Modeling and Layout of a Modern G+1 Residential Bungalow - Designing a realistic 3D residential house with site surroundings, using AutoCAD floor plans (or manually created plans), and convert them into a presentation-ready model using SketchUp.

PROJECT SCOPE

- Plot size: 40 ft × 60 ft (2400 sq.ft)
- G+1 villa with front yard, porch, living/dining, 3 bedrooms, kitchen, balcony
- External modeling: compound wall, gate, landscaping
- Interior detailing (optional): furniture and lighting layout



Images are for illustrative purpose only.

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FEE

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₹1,499

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