



Transforming Aspirations into Achievement

AUTOMOBILE DESIGNING

Master **Automobile Designing** with Expert Guidance!

SELF-PACED | MENTOR LED | PROFESSIONAL





A Brief Story About The Company



ABOUT US

Our team is dedicated to empowering students with the skills needed to thrive in today's ever-evolving job market. We believe that staying ahead requires continuous skill development to meet industry demands.

At innoKNOWVEX, we bridge the gap between current capabilities and the expertise sought by leading organizations. Our platform offers industry-specific training in a professional setting, equipping students with the knowledge and practical skills essential for securing employment in their chosen fields.



About the Program

InnoKnowvex Edu Tech's 3-month program includes two months of industrial training with experts through live sessions & recorded materials.

The final month involves an individual project and a major project with affiliated companies, offering industry exposure and MNC work experience. This program prepares interns for successful careers in the field.

Modes of Training

★ SELF PACED

- Recorded Sessions with doubt-clearing opportunities
- Lifetime access to study material
- Training Certification+Internship Opportunity

★ MENTOR LED

- Live interactive sessions with doubt clearing
- Lifetime access to recordings
- Training Certification+Internship Opportunity

★ PROFESSIONAL

- Live interactive sessions with doubt clearing
- Lifetime access to recordings
- Training Certification+Internship Opportunity+placement assistance



FIRST TWO MONTHS

- Comprehensive industrial training from experts
- Live interactive sessions
- Lifetime access to session recordings
- Hands-on practice
- Mini-projects and exercises
- Real time engagement
- Immediate feedback
- Supportive learning environment
- Mentorship and peer collaboration
- Solid foundation
- Real-world projects in the internship phase

THIRD MONTH

Two key projects:-

1. Minor project focused on implementing and evaluating their skills independently.
2. Major collaborative project, providing industry exposure and experience in a multinational corporation environment.

***Interns work on real-world challenges under the guidance of experienced professionals, gaining valuable insights into industry practices while refining their technical skills. This hands-on experience prepares them for successful careers, giving them a competitive edge in the job market.**



Explore the **CAREER PATHS**

**Automotive
Exterior
Designer**

**Automotive
Interior
Designer**

**Automotive 3D
Modeler &
Visualization
Specialist**

**Vehicle
Concept
Designer**

**Automotive
Chassis &
Structural
Engineer**

**Powertrain &
EV Designer
Analyst**

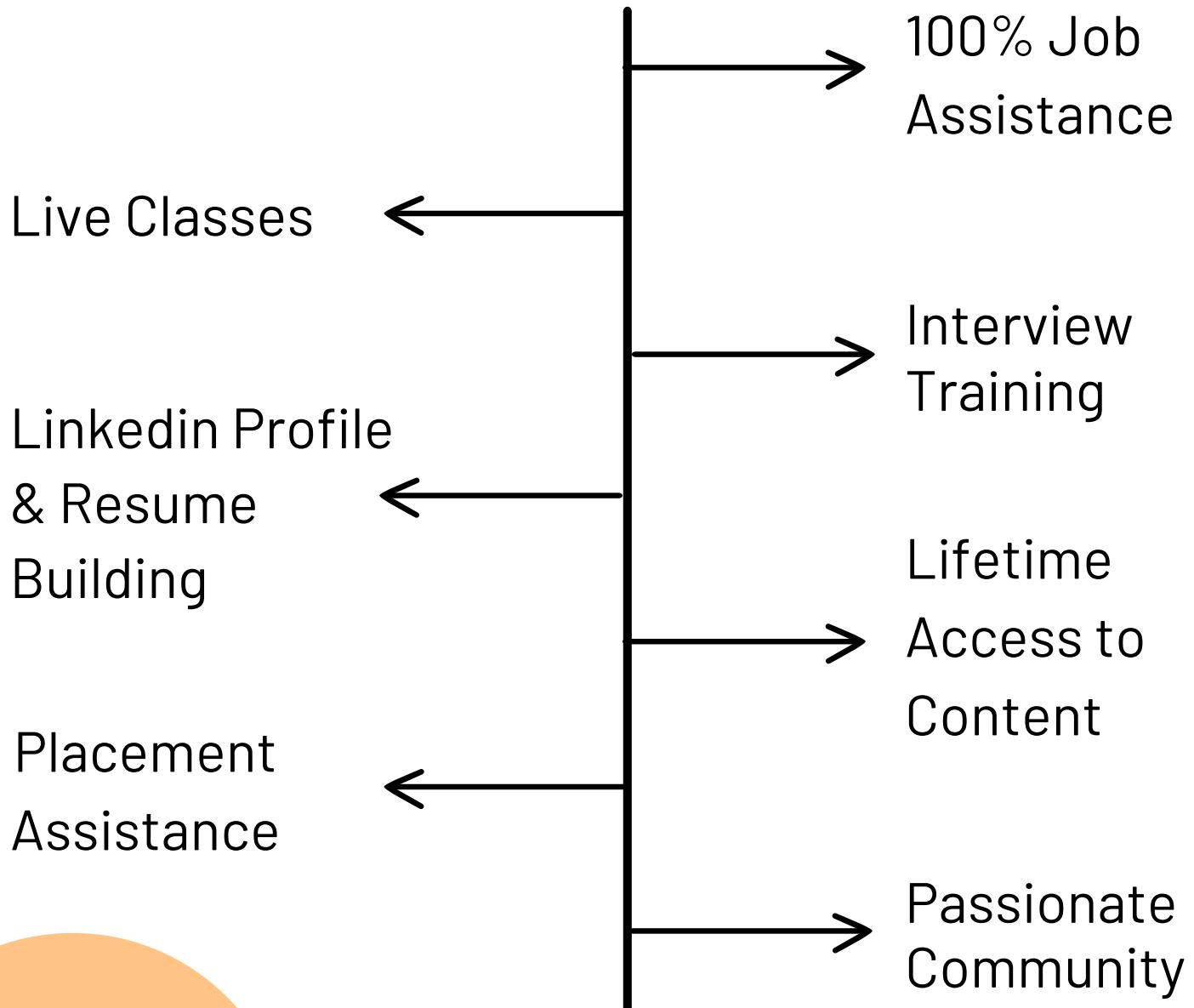
**Automotive
Aerodynamics
Engineerr**

**Automotive
UI/UX
Designer**

**Automotive
Materials &
Sustainability
Engineer**



WHY US?



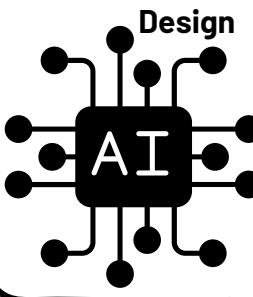
TOOLS

You will learn

Computer-Aided Design (CAD) & 3D Modeling



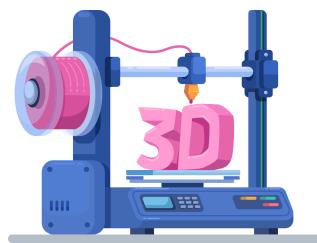
Artificial Intelligence (AI) & Machine Learning (ML) in Design



Augmented Reality (AR) & Virtual Reality (VR) in Automobile Design



Sustainable Materials & 3D Printing



Autonomous Vehicle & Smart Mobility Technologies





KEY HIGHLIGHTS OF PROGRAM

Introduction

Aerodynamics &
Structural Design

Vehicle Sketching &
Concept Design

Electric &
Autonomous
Vehicle Design

Interior &
UI/UX Design

Sustainability &
3D Printing

Industry Projects &
Portfolio Development

Future Mobility
Trends

Virtual Reality (VR) &
Augmented Reality (AR) in
Car Design

Smart
Manufacturing &
Automation

Hands-on CAD
& 3D Modeling

Course Curriculum



Week 1- Introduction to Automobile Design

01

- Overview of automobile design & development process
- History and evolution of car design
- Basics of vehicle classification (Sedans, SUVs, EVs, etc.)
- Introduction to CAD (Computer-Aided Design) tools



Week 2- Automotive Sketching & Concept Development

02

- Basics of automotive sketching and rendering
- Perspective drawing techniques for vehicles
- Understanding vehicle proportions and aerodynamics
- Hands-on: Sketching different car body styles





Week 3 - 3D Modeling & CAD Software

03

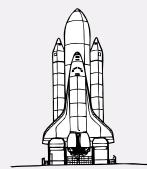
- Introduction to Autodesk Alias, SolidWorks, CATIA
- Basics of surface modeling and 3D sculpting
- Creating a digital car body from a sketch
- Hands-on: Designing a basic 3D car model



Week 4 - Vehicle Aerodynamics & Ergonomics

04

- Principles of aerodynamics in car design
- Wind tunnel testing and CFD simulations
- Ergonomics and human factors in vehicle interiors
- Hands-on: Analyzing airflow over a vehicle model



★ RESUME BUILDING WORKSHOP



Week 5 - Chassis & Structural Design

05

- Types of chassis (monocoque, ladder frame, space frame)
- Structural safety and crashworthiness
- Material selection: Steel, aluminum, carbon fiber
- Hands-on: Designing a basic car chassis in CAD





Week 6- Powertrain & Drivetrain Design

06

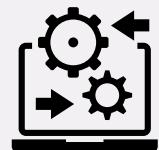
- Engine types (ICE, hybrid, electric, hydrogen)
- Transmission systems (manual, automatic, CVT, dual-clutch)
- Drivetrain layouts (FWD, RWD, AWD)
- Hands-on: Creating a basic powertrain layout



Week 7 - Suspension & Braking Systems

07

- Types of suspension systems (MacPherson, double wishbone, air suspension)
- Braking systems (disc, drum, ABS, regenerative braking)
- Hands-on: Designing a simple suspension system



Week 8 - Automotive Interior & UX Design

08

- Principles of automotive interior design
- Dashboard layout and infotainment systems
- Material selection and sustainability in interiors
- Hands-on: Sketching a car interior layout



SOFT SKILL DEVELOPMENT WORKSHOP



Week 9 - Electrical & Electronics in Automobiles

09

- Automotive electrical systems (Battery, alternator, ECU)**
- Advanced driver-assistance systems (ADAS)**
- Electric vehicle (EV) architecture and battery management**
- Hands-on: Designing a simple wiring diagram for a vehicle**



Week 10 -Sustainable & Future Mobility Solutions

10

- Electric and hydrogen-powered vehicles**
- Autonomous vehicle technologies**
- Sustainable materials and lightweight design**
- Hands-on: Conceptualizing a futuristic sustainable vehicle**





Week 11 - Prototyping & Design Validation

11

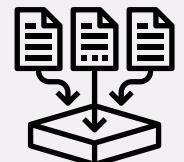
- Rapid prototyping techniques (3D printing, clay modeling)
- Virtual reality (VR) in automobile design
- Hands-on: Creating a 3D printed model or VR visualization



Week 12 - Final Project & Presentation

12

- Developing a full-fledged automobile design concept
- Creating technical drawings, 3D renders, and presentations
- Feedback and design iteration process
- Final project presentation



HOW TO CRACK TECH INTERVIEWS



CERTIFICATIONS





Pricing

PLAN

Live Sessions>

Get real-time Assistance

₹2,500

Self Paced>

Learn at your own pace

₹2,500



OUR COLLABORATIONS

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IBM

wipro

accenture

meesho

SWIGGY

Razorpay

PhonePe

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