TS
TECH TEACH
EDUCATIONALSOLUTIO

Car Design

OUR MISSION :

"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

OUR VALUES :

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."

COURSE CURRICULUM:

Week 1: Introduction to Car Design

- Day 1-2: Overview of Car Design
  - Introduction to automotive design principles and history.
  - Overview of the car design process.
- Day 3-4: Automotive Design Software
  - Introduction to software used in car design (e.g., Autodesk Alias, CATIA, SolidWorks).
  - Basic tutorials and hands-on practice with the software.
- Day 5: Sketching and Concept Development
  - Techniques for sketching and developing initial design concepts.
  - Hands-on: Creating basic car sketches.

COURSE CURRICULUM:

Week 2: Advanced Sketching and Rendering

- Day 1-2: Advanced Sketching Techniques
  - Exploring advanced sketching techniques and perspectives.
  - Hands-on: Creating detailed car sketches.
- Day 3-4: Digital Rendering
  - Introduction to digital rendering tools and techniques.
  - Hands-on: Rendering car designs digitally.
- Day 5: Concept Presentation
  - Techniques for presenting design concepts.
  - Hands-on: Preparing a presentation for a car design concept.

COURSE CURRICULUM:

Week 3: 3D Modeling and Surface Design

- Day 1-2: Basics of 3D Modeling
  - Introduction to 3D modeling in automotive design.
  - Hands-on: Creating basic 3D models of car components.
- Day 3-4: Advanced Surface Modeling
  - Techniques for creating complex surfaces and shapes.
  - Hands-on: Modeling car exteriors with advanced surface techniques.
- Day 5: Interior Design
  - Principles of car interior design.
  - Hands-on: Sketching and modeling car interiors.

COURSE CURRICULUM:

Week 4: Aerodynamics and Ergonomics

- Day 1-2: Aerodynamics in Car Design
  - Understanding the importance of aerodynamics.
  - Tools and techniques for aerodynamic analysis.
- Day 3-4: Ergonomics and Human Factors
  - Principles of ergonomics in car design.
  - Hands-on: Designing car interiors with ergonomic considerations.
- Day 5: Simulation and Testing
  - Introduction to simulation tools for aerodynamics and ergonomics.
  - Hands-on: Running basic simulations and interpreting results.

COURSE CURRICULUM:

Week 5: Materials and Manufacturing

- Day 1-2: Materials in Automotive Design
  - Overview of materials used in car manufacturing.
  - Properties and selection criteria for automotive materials.
- Day 3-4: Manufacturing Processes
  - Overview of car manufacturing processes (e.g., stamping, molding, assembly).
  - Considerations for design for manufacturability (DFM).
- Day 5: Sustainability and Innovation
  - Trends in sustainable automotive design.
  - Innovative materials and manufacturing techniques.

COURSE CURRICULUM:

Week 6: Advanced Design Techniques

- Day 1-2: Parametric Design
  - Introduction to parametric design principles.
  - Hands-on: Creating parametric models in design software.
- Day 3-4: Generative Design
  - Exploring generative design techniques and tools.
  - Hands-on: Applying generative design to car components.
- Day 5: Visualization and Animation
  - Techniques for visualizing and animating car designs.
  - Hands-on: Creating animations of car models.

COURSE CURRICULUM:

Week 7: Industry Trends and Collaboration

- Day 1-2: Current Trends in Automotive Design
  - Exploring trends such as electric vehicles, autonomous driving, and smart cars.
- Day 3-4: Collaborative Design
  - Techniques for collaborative design in a team setting.
  - Tools for remote collaboration and version control.
- Day 5: Industry Case Studies
  - Reviewing case studies of successful car designs.
  - Learning from industry examples and best practices.

COURSE CURRICULUM:

Week 8: Final Project and Presentations

- Day 1-4: Project Development
  - Students work on a comprehensive final project that integrates multiple aspects of the curriculum.
- Day 5: Project Presentation and Evaluation
  - Students present their projects.
  - Feedback and evaluation.

Our Partners Company's

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THANK YOU

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