

Automotive Design & Manufacturing — Course Syllabus

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Module 1: Automotive Engineering Fundamentals

Vehicle design process, automotive components and systems, and IC engine fundamentals.

Module 2: Chassis, Suspension & Braking Systems

Vehicle dynamics, transmission systems and core mechanical subsystems.

Module 3: CAD Modeling & 3D Design

Sheet metal design, surface modeling and product design and development in CATIA/SolidWorks.

Module 4: Design Validation & Analysis

Quality standards in manufacturing, GD&T; and design validation using ANSYS/HyperMesh.

Module 5: Industry 4.0 & EV Fundamentals

Automotive materials, manufacturing processes, Industry 4.0 concepts and electric/hybrid vehicle basics.

Module 6: Capstone Project

An end-to-end automotive component or system design project, from concept to validation.

This is a placeholder syllabus generated from the course overview on netwisdom.in. It will be replaced with the official, detailed module-by-module syllabus document.