

Electric Vehicle (EV) Design — Course Syllabus

Nashik, Maharashtra • www.netwisdom.in • netwisdominfotech@gmail.com • +91 70208 48988

Module 1: EV Architecture & Powertrain

Vehicle layout, electric powertrain design and EV transmission systems.

Module 2: Battery Technology & BMS

Battery technology and Battery Management Systems (BMS) fundamentals.

Module 3: Motors & Power Electronics

Electric motors, motor controllers, inverters, converters and DC-DC systems.

Module 4: Charging & Thermal Systems

AC/DC fast charging technologies, charging infrastructure standards and thermal management.

Module 5: Testing & Validation

Vehicle dynamics, performance analysis, functional safety and EV testing & validation.

Module 6: Capstone Project

An EV powertrain, battery pack or charging station design project.

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.