

Hybrid Electric Vehicle (HEV) Design & Technology — Course Syllabus

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

Module 1: Hybrid Vehicle Architectures

Series, parallel and series-parallel hybrid architectures and ICE integration.

Module 2: Batteries & Motors

Battery technologies, BMS, electric motors and motor controllers.

Module 3: Power Electronics & Energy Management

Power electronics, energy conversion and energy management strategies.

Module 4: Regenerative Braking & Transmission

Regenerative braking systems and hybrid transmission systems.

Module 5: Performance & Emissions

Fuel economy, emission reduction and vehicle performance analysis.

Module 6: Capstone Project

A hybrid vehicle powertrain or energy management simulation 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.