

Hybrid and Electric Vehicles

Master EV technology and sustainable automotive systems.

Duration: 10 Weeks

Level: Intermediate

Mode: Self Paced

Modules: 5

Why This Internship

- EV industry is the future of transportation
- Growing demand for EV engineers
- Sustainable technology expertise

What You Will Learn

- EV Architecture
- Battery Technology
- Power Electronics
- Motor Controllers
- Charging Systems
- Vehicle Dynamics

Detailed Syllabus

Module 1: EV Fundamentals

- EV Types
- Architecture
- Components

Module 2: Battery Systems

- Battery Chemistry
- BMS

- Thermal Management

Module 3: Power Electronics

- Inverters
- Converters
- Motor Drives

Module 4: Charging Infrastructure

- Charging Standards
- Fast Charging
- Grid Integration

Module 5: Projects

- EV Design
- Simulation
- Performance Analysis

Real-World Projects

1. EV Powertrain Design
2. Battery Management System
3. Charging Station Design
4. Range Optimization

Certification

MSME & AICTE Certified EV Technology Certificate + Internship Eligibility