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ADYAPAN

# Adyapan School

## Electric Vehicles



Duration - 2 months

Industry  
Certification



Skill India Certified

250+  
Partner Companies

# Electrify Your Knowledge, Accelerate Your Career

From circuits to clean mobility - become industry-ready.

This immersive Electric Vehicle program takes you beyond foundational concepts into real-world EV design and technology. Learn battery systems, power electronics, electric drivetrains, and vehicle architecture through hands-on projects and guided simulations. With a strong focus on practical implementation and industry-relevant workflows, you'll graduate with the ability to analyze EV systems, optimize performance, and contribute confidently to the rapidly evolving electric mobility ecosystem.

8

MODULES

30+

PROGRAM OFFERINGS

20,000+

STUDENTS

250+ PARTNERED COMPANIES



ABOUT ADYAPAN SCHOOLS

## Where education meets real-world impact

Not just a course — a platform to launch  
your career.

Adyapan Schools was built with a single conviction:  
learning works best when it happens in the real world.  
We partner with top companies, mentors, and industry  
platforms to ensure every student graduates with a  
portfolio of work that speaks louder than a certificate.

Our programs combine rigorous coursework with live  
client projects, giving you the skills and proof-of-work  
that employers actually want.

### MISSION

To equip ambitious learners with  
practitioner-level digital  
marketing skills through mentor-  
led, project-based education that  
bridges the gap between learning  
and earning.



### VISION

To be India's most trusted  
launchpad for the next generation  
of marketing leaders — defined  
not by degrees but by the real  
work.



## Everything you need to grow fast

### PROGRAM HIGHLIGHTS

#### Live Industry Projects

Work on campaigns for real brands alongside your coursework. Build portfolio projects that prove your expertise to employers.

#### 1-on-1 Mentorship

Dedicated mentors from Google, Microsoft, Mastercard and more. Get personalized guidance and industry connections.



#### AI-Powered Marketing

Learn cutting-edge AI tools alongside evergreen fundamentals. Stay ahead of the curve in a rapidly evolving landscape.



#### Dual Certification

Earn both a Course Completion and Internship Certificate – accredited by Skill India Digital Hub and NSDC.



#### Internship Guarantee

Graduate with an internship completion certificate from a live brand project. Concrete, resume-ready proof of work.



#### Industry Network

Join a network of alumni at Amazon, Google, Adobe, Microsoft. Access exclusive hiring events and referral opportunities.

## 8 weeks. 8 modules. Infinite impact.

### WEEK 1

#### Introduction to Electric Vehicles & Battery Fundamentals

- Discussion of Curriculum
- Why EV adoption is critical for decarbonization, urban air quality, and energy security
- History and evolution of electric vehicles
- Uses of batteries across applications
- Learn key EV terminology and basic electrochemistry



### WEEK 2

#### EV Architectures & Powertrain Technologies

- HEV, PHEV, BEV, and FCEV- compare architectures, power sources, and use cases
- Hybrid Electric Vehicle configurations and understand regenerative braking integration
- Explore Battery Electric Vehicle systems, PMSM and induction motors, single-speed transmission, inverter operation
- Powertrain efficiency across ICE and EV drivetrains



### WEEK 3

#### EV Battery Technologies & Chemistry

- Study Lithium-Ion battery chemistry in depth
- Explore battery pack architecture
- Solid-State Batteries and their current development status
- Advanced battery chemistries on the horizon, across energy density, power density and projected performance metrics



## 8 weeks. 8 modules. Infinite impact.

### WEEK 4

#### EV Battery Performance, Capacity & Range

- EV battery capacity sizing and study factors affecting real-world range
- Analyze battery performance characteristics
- Understand EV battery temperature conditions and optimal operating window management
- Battery thermal management systems (BTMS) and EV range testing standards



### WEEK 5

#### Range Anxiety, Charging Infrastructure & Grid Integration

- Range anxiety and its role as a primary barrier to mass EV adoption
- Study EV charging levels and ultra-fast charging above 350 kW
- Understand charging and range relationships, and optimised strategies to preserve long-term battery health
- Explore Vehicle-to-Grid (V2G) and smart charging technology



### WEEK 6

#### Battery Management Systems (BMS) & Sensors

- BMS architecture and its core functions
- Study SOC and SOH estimation algorithms
- Explore cell balancing techniques and their trade-offs in pack-level implementation
- Understand sensors in EVs and BMS communication protocols, including CAN bus and ISO 26262 safety standards



## 8 weeks. 8 modules. Infinite impact.

### WEEK 7

#### Second Life, Recycling & Sustainability of EV Batteries

- Understand the EV battery life cycle
- Study second-life battery applications and assessment methods
- Explore EV battery recycling processes and compare material recovery rates, energy inputs, and environmental impact
- Study global recycling companies and regulatory frameworks, including the EU Battery Regulation's recycled content mandates



### WEEK 8

#### Advanced Topics, Future Trends & Capstone Project

- Study Fuel Cell Electric Vehicles (FCEVs) and how electrification enables advanced driver assistance systems (ADAS)
- Explore AI and machine learning in EVs and fleet optimisation algorithms
- Understand EV cybersecurity and attack surfaces in connected vehicles, charging infrastructure vulnerabilities, and related topics.
- Execute a capstone project: design a complete EV battery system



WHO THIS IS FOR

## This course is perfect for

Students & Career Switchers

Aspiring EV & Automotive  
Engineers

Electrical & Electronics  
Engineering Students

Working Professionals in  
Automotive & Energy Sector

Sustainability & Clean Energy  
Innovators

EV Design, Battery & Charging  
Infrastructure Enthusiasts

### CERTIFICATIONS



### ALUMNI NETWORK

Our alumni work at world-class companies

Amazon

Adobe

Google

Autodesk

Microsoft

Deloitte

Your career switch is one click away.

Ready to begin? Apply at [adyapanschool.com](https://adyapanschool.com) or email us at [support@adyapan.com](mailto:support@adyapan.com)

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