



ALL AGES EVENT EARLY BIRD OFFER

Registration by 9th Nov 2022

Professionals

INR 13,000 for 3 days

Students

INR 12,000 for 3 days

AT THE DOOR

INR 5,000/day

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OR DEMAND DRAFT TO
THE PRINCIPAL,
TCE, MADURAI

WORKSHOP ON ELECTRIC VEHICLES TECHNOLOGY

Lets drive the future

PRESENTED BY

THIAGARAJAR COLLEGE OF ENGG, MADURAI
& HYGGE ENERGY PVT LTD, BANGALORE

WHEN

18, 19 & 20th NOV 2022
10 am- 6.00 pm

WHERE

Thiagarajar College of Engg,
Thiruparankundram, Madurai

Eligibility

All Ages Event

WORKSHOP FOCUS ON

- Motors • Controllers • Powertrain • Batteries
- Battery Management Systems • Wire Harness
- Safety

DAY 1

OVERVIEW OF ELECTRIC VEHICLES (EV) - COMMERCIAL ASPECTS

Importance of EV and Status of Oil Imports in India
Efficiency of EV vs ICE & Emission Standards
Cost Scenario of Raw Materials, Components & Vehicles (CAPEX & OPEX)

OVERVIEW OF ELECTRIC VEHICLES (EV) - TECHNICAL

Architecture of IC Engine and Electric Vehicles
Architecture of Hybrid (HEV), Battery (BEV) and Fuel Cell (FCEV) Electric Vehicles
Estimation of Power, Energy and Range of Vehicle
How Electric Vehicle Works (Demo Video)

OVERVIEW OF POWERTRAIN SYSTEMS

Principles of Motors (AC/DC), Controls and Converters
Differentials, Transmission and Regen Braking
Vehicle Control Unit (VCU), Wiring Harness and Safety

DAY 2

OVERVIEW OF ENERGY SYSTEMS

Battery Systems - Lithium ion, Solid State and Li-Air
Battery Pack Engineering
Battery Management Systems / Controls
Safety / Protections / Certifications

OVERVIEW OF CHARGING SYSTEMS

How EV Charger work, Charging Protocols
Onboard - Offboard Charger / Fast-Slow Chargers
Charging Infrastructure
Renewable Power - Microgrid

DAY 3

HANDS ON EXPERIENCE IN

Motors - AC/DC
Controllers
Converters
Wiring Harness
Battery - Li-ion Battery, BMS, Busbars, Fuse
Test Ride on Vehicles Developed In-house - 2W/3W/4W

TUTORS

EXPERIENCED SUBJECT MATTER EXPERTS FROM REPUTED FIRMS (NISSAN MOTORS, SIEMENS GAMESA, BOSCH...)

HANDS ON

MOTORS / DIFFERENTIAL ASSEMBLY, BATTERY PACKAGING
2/3/4 WHEELER POWERTRAIN

BENEFITS TO

POLICY MAKERS
PROFESSIONALS
STUDENTS

REFRESHMENTS

 COFFEE - 11 AM

 LUNCH - 1 PM

 TEA - 4 PM

CONTACT

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