



## **Center of Excellence in e-Mobility**

### **Internship Modules for Engineering students**

- M1. Super capacitors – Futuristic energy storage devices for e-vehicles
- M2. Battery Management System (BMS): Active and Passive Cell Balancing, State-of-Charge Estimation
- M3. Power Converters for Charging station
- M4. Design and Simulation of Synchronous Reluctance Motor for Traction Application
- M5. EMI EMC Issues in Electric Vehicles
- M6. FPGA implementation of communication protocols for E-vehicles
- M7. Simulation of basic E-vehicle model using MatLab Simulink
- M8. Develop & Simulation of Communication protocols in Electric Vehicles using LabVIEW / Matlab Simulink / NS2
- M9. Simulation of Advanced driving assistance system (ADAS) using wireless sensors in Electric Vehicles
- M10. IoT based battery monitoring system
- M11. A Smart System to avoid congestion at the Charging Pool
- M12. Reimagining the vehicle parking spaces to suit solar charging
- M13. Design and Analysis of e-Vehicle Dynamic System Model
- M14. Design of Thermal Management system for Batteries in e-Vehicles
- M15. Electricity generation system from a renewable energy source for a self-sustained Fuel Cell Vehicle (Floating PV solar power stations)
- M16. Renewable energy powered electrolyzer system to generate hydrogen gas for a self-sustained Fuel Cell Vehicle
- M17. Development of a simple fuel cell system powered by an electrolyzer
- M18. Integration of a self-sustained fuel cell with an indigenous vehicle
- M19. Design of Eco friendly Metal air Battery Technology for sustainable e-mobility systems
- M20. Design and simulation of Motor controller for e-Vehicles
- M21. A Business Process Model for the Reverse Logistics of Used Electric Vehicle Batteries
- M22. Cost-effective supply chain for electric vehicle battery remanufacturing
- M23. Digital Closed Loop Supply Chain Network Design for Electric Vehicles
- M24. Market segmentation of electric two wheelers in Indian context
- M25. Comparative study of charging infrastructure in India and rest of the world

**For Further Information Contact:**

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