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RV Educational Institutions[®] RV College of Engineering[®]

Approved by AICTE, New Delhi, Accredited By NAAC, Bengaluru And NBA, New Delhi

Industry Certified Research Internship

Centre of Excellence in E-Mobility

Pertification by Greaves Potton

Group-I:

1. Modelling, simulation and analysis of performance of a super capacitor for e-vehicles

Group-II:

- 1. Propose a Scheme and Solution on time to recharge a battery by reducing the charging time.
- 2. A simulation model to study the behavior of a metal air battery(Fuel Cell) at different discharging current and temperature
- **3.** Design and Development of a BMS system involving active balancing topology and an algorithm to implement the same.
- 4. Design and Development of Electrical vehicle propulsion model using MATLAB Simulink

Group-III:

1. A Smart System to avoid congestion at the Charging Pool

Group-IV:

1. Design and simulation of isolated power supplies for e-vehicles.

Group-V:

- 1. Design and Simulation of Motor Equations to predict Power, Torque, Power consumption of vehicle and Range
- 2. Design of LED/LCD Cluster to display speed, Battery SOC bar, and odometer
- 3. Design of Hall effect Sensors in Motors to calculate speed of the vehicle in terms of RPM and KMPH

Group-VI:

1. Aluminium air battery for electric vehicles

Group-VII:

1. Development of a Fuel Cell Vehicle / Electric Vehicle via renewable energy route

Group-VIII:

- 1. Accurate State-of-Charge Indication for Battery-Powered Electric Vehicles
- 2. Battery Management System for Electric Vehicles

Group-IX:

1. Connected Electric Vehicles - Infrastructure Functions through Communication

Group-:X:

- 1. A Business Process Model for Reverse Logistics of Used Electric Vehicle Batteries
- 2. Cost-effective supply chain for electric vehicle battery remanufacturing

Group-:XI:

1. Technological benchmarking study of E-Vehicles with focus on Electric Vehicles in the Indian automotive sector.

Group-:XII:

1. Standards Practices and Certification guidelines for Electric Vehicles

Group-:XIII:

1. Customer journey mapping process of a typical Indian E-vehicle customer

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