



Electric Machine Design & Industry Prospects

Unit 01

About EV Industry & Market Study

Assignment



Assignment

- Q1. Explain the Journey of Automotive with the help of flow chart from the Beginning of 18th Century to The 21st Century & give brief description on the following milestones in the Automotive Journey:-
- a) Invention of Electric Motor
 - b) Golden Era of EV
 - c) Domination of Electric Vehicle by Gasoline cars
 - d) Coming of New Era in EV
 - e) Introduction to Hybrid Electric vehicles
- Q2. Explain and Draw the Layout of following Hybrid Electric vehicles with their two Advantages, Disadvantages & Industrial application in automotive segment?
- a) Series Hybrid Electric vehicles
 - b) Parallel Hybrid Electric vehicles
 - c) Series Parallel Hybrid vehicle
 - d) Plug in Hybrid electric vehicle
 - e) Fuel Cell Electric Vehicle
- Q3. Explain with Diagram the Construction & Working principle of Brushless Motor BLDC?
- Q4. Explain Battery Pack Composition with initial component description as well as Advantages & Disadvantages of Battery Pack in Electric Vehicle Installation?