COURSE CONTENTS

1. Basics of the Electric Vehicle (EV) and Hybrid Electric Vehicle
2. Charging Infrastructure: present and future scenario
3. Battery technologies
4. In-vehicle energy management
5. New driving cycles for EVs and test methods
6. Effect of different drive modes on energy consumption of EVs
7. Electric Drives and Power electronics
8. Hybrid and Electrical Vehicles : Current and future Scenario
9. Diagnostic system management in EVs
10. Technology comparison of IC Engine vehicle and EV
11. Effect of ICE vehicular pollution on human health and environment
12. On-road mobility options

Practical / Lab Demonstrations

- Max. speed and energy consumption measurements of EVs
- Solar Charging Station
- Retro-fitment of old & polluting petrol-diesel vehicles in EVs
- Electric Powertrain System