

MIT World Peace University, Pune

School of Electrical Engineering

Upcoming Events – 2020

Workshops: A National Workshop on Electric Mobility

Electric transportation is at a budding stage in India. Many automobile giants are sincerely trying to enforce the positive change by bringing out a variety of models in almost all kinds of vehicles (i.e., light as well as commercial). The government of India is also extending all types of supports to foster the R & D and materialize the EV in the country. The Industry is almost ready for take-off and may witness a quantum leap in volumes and technology. We can expect a great opportunity with EVs in reducing the carbon footprint, dependence on crude oil imports, creating jobs, and building a new technology knowledge hub in India.

Content/Details:

- Introduction to Future Electric Mobility
- EV Architecture & Components
- Mechanical aspects of EVs (Chassis, Body, Drivetrain, Steering, Suspension, etc.)
- Energy Storage Systems – Batteries, Fuel Cells, Super-capacitors – Types, Suitability.
- Energy Monitoring/Battery Management System
- Charging System – Technology, Architecture, Infrastructure
- Electrical Machines for EVs – Types of motors and their suitability
- Control System for EVs – Motor Controllers
- Converters used in EV (for auxiliaries)
- Popular software's used in EV industry – Python, MATLAB, etc
- Testing, Safety Standards/Regulations
- Case Study: Detailed explanation with actual vehicle
- Impact on Electrical Power System – V2G, G2V
- Research Opportunities in EVs (Renewable Energy connection with EVs, Wireless charging)
- Business Opportunities in EVs
- Government Policies
- Panel Discussion with EV manufacturer/start-ups: (e.g. ARAI, Tata Motors, Ather, Okinawa, Mahindra e2O, Verito, Device Electronics, and others)

Tentative Dates: Third Week of August 2020

Venue:

School of Electrical Engineering, MIT World Peace University, Pune

Who can Participate:

Faculty Members/Industry Persons/Research Scholars/PG-UG Students.

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