



Module	Detail
1	EVs : A clean mobility option
2	Motion and dynamic equations for vehicles
3	Propulsion requirements for vehicles
4	HEV architectures
5	EV architectures
6	Mechanical systems used in EVs and HEVs
7	Fundamentals of Regenerative Braking
8	Electrical machines for EVs and HEVs
9	DC-DC Converters
10	Boost and Buck-Boost Converters
11	Multi Quadrant DC-DC Converters
12	Voltage Control of DC-AC Inverters Using PWM
13	Control Systems for the HEV and EVs
14	The fuzzy logic based control system
15	Batteries for EVs
16	Fuel cell and supercapacitors
17	Electric vehicle charger
18	Electric vehicle charger technology
19	The EV charging station architecture
20	EV chargers and portfolio management
21	EV charging and the grid
22	Smart grid and EVs

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**Preamble:** This course is ideal for 3rd year and 4th year engineering students and is equivalent to 3 credit. Furthermore, this course gives a comprehensive overview of the e-mobility and charging infrastructure and is apt for working professional who wish to upgrade their skills.

To register please go to the following link: <http://117.239.178.82/account/register.php>

Course format		Other Info	
Reading Material	eBook with 2D/3D Animation	Interactive session	Monthly webinar
Practice tools	Virtual Labs and Projects	Content Availability	On cloud 24/7
Assessment tool	Proctored online exam	Course Duration	12 Weeks
Video Lectures	With audio	Credit Equivalent	3
Fee - for students		Fee - for Industry Professions	
For Indian nationals: Rs. 6,000/- (incl. taxes)		For Indian nationals: Rs. 25,000/- (incl. taxes)	
For foreign nationals: \$100/- (incl. taxes)		For foreign nationals: \$1000/- (incl. taxes)	

## Certifying Agency - National Power Training Institute (NPTI)

According to the gazette of India July 1993, NPTI is a national **apex body** for **training and human resources development** in Power Sector. NPTI is an ISO 9001 & ISO 14001 organization is an autonomous organization of the **Ministry of Power, Govt. of India** with its existence of over 50 years operates through its Corporate Office at Faridabad and institutes at New Delhi, Nangal, Bengaluru, Neyveli, Durgapur, Guwahati & Nagpur.

**Deshya technologies Pvt Ltd, incubated at IIT Guwahati** is the technical partner of NPTI. **Deshya** is a single-source provider for e-Learning environment in Electrical Engineering education. Its e-Learning environment for the Electrical Engineering Education simplifies complex topics and makes learning fun.