Registration Form

Six Days Online ATAL FDP
on
Emerging Power Converter Topologies and Control Methods for Electric Vehicles and Renewable Energy Systems
(17^{th} – 22^{nd} November 2025)

Name:--

Designation:--

Affiliation:--

Qualification:---

Mailing Address:---

Contact No.--

E-mail:---

Signature of Applicant

Date:

Signature of Institute/Department Head Authority with Seal

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AICTE Training and Learning (ATAL) Academy

Six Days Online ATAL FDP
on
Emerging Power Converter Topologies and Control Methods for Electric Vehicles and Renewable Energy Systems
(17^{th} – 22^{nd} November 2025)

Organized By

Department of Electrical Engineering

Maulana Azad National Institute of Technology Bhopal
Madhya Pradesh- 462003

Objective

In the last few decades, the power electronic converter topologies have been playing an important in electric vehicles and renewable energy systems applications. The moto of this FDP is to impart knowledge on charging infrastructure and controlling of electric vehicles and grid integration of renewable energy systems. The researchers focusing on improving the charging time, wireless charging infrastructure and controlling during regenerative braking for electric vehicles, further in renewable energy systems high level power converters to improve power generation, power quality, fault ride through operation during grid integration and control methods for speed and power regulation during power generation.

Course Highlights

- Reinforcement Learning for Shared Control in Intelligent Vehicles
- Design of Solar Water Pumping Systems
- Electric Vehicle HIL Implementation
- Microgrids in Renewable Energy Perspective
- Fault Ride Through Operation of RES
- Wireless Charging Infrastructure for Electric Vehicles
- Model Predictive Control of Brushless DFIG based Wind Energy Systems
- Green Hydrogen and its Prospects
- Magnet less Motor Drives for Light Electric Vehicles
- Solar Photo Voltaic Module Testing

Who May Be Benefitted

Technical faculty, Industry professionals, Research scholars and Post graduate students, Under graduate students from academic institutions would be benefitted from the course. The faculty members and research scholars working in the broad area of Electrical and Electronic systems may register to attend this FDP by sending their application duly recommended by respective Head of Department or Head of Institution.

ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with vision “To empower faculty to achieve goals of Higher Education such as access, equity and quality”. ATAL academy will conduct series of FDPs in thrust areas identified by AICTE.

Resource Persons

The resource persons in FDP includes

- ❖ Faculty from MANIT Bhopal
- ❖ Academicians from IITs and NITs
- ❖ Academicians from foreign universities
- ❖ Industry experts from India and abroad

Registration Fee

Registration is free for the participants.

- Please fill the Registration form provided in this brochure and send to contact person email latest by **15/10/2025.**

About The Institute

MANIT (formerly known as MACT) is one of the eight premier Regional Engineering Colleges of the country established by government of India in 1960s and subsequently upgraded to National Institute of Technology (NIT) in the year 2002. It is one of the premier technical education Institutes of in Central India, successfully imparting quality education to graduate and postgraduate students in engineering since its inception. Bhopal (City of Lakes) is the capital of Madhya Pradesh. It is well connected from different parts of the country by rail route and air. The institute is 9 kms away from Bhopal main railway station and Bhopal airport is 18 kms away from the Institute.

About The Department

Department of Electrical Engineering is one of the oldest departments of MANIT started during institute inception. It offers one B. Tech. program, two M. Tech. courses (Power Electronics & Drives and Integrated Power System) and a Ph. D. program. It consists of well qualified and dynamic faculty. It is the mixture of experienced and young and energetic faculty with comprehensive research background. The department is also equipped with latest research laboratories for striving forward towards technological improvements such as Electric Vehicle & Energy Integration Lab (EV & EI), Micro Grid Integrated EV charging Research Lab, Smart Grid Lab also coupled with the state of art machines lab and other new laboratories for UG and PG courses.