



# OFFLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON RECENT ADVANCES AND CHALLENGES IN E-MOBILITY

(29<sup>th</sup> June – 05<sup>th</sup> July 2022)

Organized by

E & ICT Academy & Department of Electrical Engineering, NIT Warangal

In Association With



Department of Electrical & Electronics Engineering, Vasavi College of Engineering(A), Hyderabad

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

## Preamble:

Electronics & ICT Academy was set up at NIT Warangal with financial assistance from MeitY, GoI. The role of academy is to offer faculty development programmes in emerging areas of Electronics, Information Communication Technologies; training & consultancy services for Industry; Curriculum development for Industry; CEP for working professionals; Advice and support for technical incubation and entrepreneurial activities.

This FDP is designed to address research advancements in Power conversion topologies and applications in the industry and to encourage various zonal professionals/students/academicians towards research and for their Academic Quality Improvement too. This course will offer a unique opportunity to all the participants in the relevant topics in Real Time Power Electronic systems and its applications through theoretical sessions and simulation plus laboratory-based experiments and demonstrations. Also, this FDP aims at giving scope for future research.

**Objectives:** FDP aims at giving scope for future research.

- Hybrid Electric Vehicles
- Plug-in Electric Vehicles
- Solar EV Charging stations
- Wireless Charging systems
- Multi-functions charging systems.
- Robust control of Two wheeler EV Drive Train
- EV Charging Infrastructure Design
- High Power Density Converters for electronic products
- Electric Drives (SRM/BLDC/PMSM) & Control for EVs
- Energy Efficient Drives especially for elevators
- Automobile Lighting Systems
- AI-based adaptive control technique for EVs
- Energy management in EVs.
- Fuel Cell Vehicles
- Thermal Management in EVs.

## Registration Fee Particulars:

- Faculty and Research Scholars: Rs. 2500 /-
- Industry Participants Rs. 7500/-

Participants are required to pay the Registration Fee Online using the following NEFT transfer details:

Online Transfer Details	
Account Name	: Electronics & ICT Academy NITW
Account No	: 62423775910
IFSC code	: SBIN0020149
Bank and Branch	: State Bank of India, NIT(REC) Warangal

**Resource Persons:** Finest Researchers & Professors from IITs, International Universities, NITs & Industry experts etc...

**Eligibility:** Faculty/Ph.D scholars of Electrical Engineering/allied disciplines & Industry personnel.

**How to apply:** Participants are required to apply through online registration form by clicking on the following link:  
<https://forms.gle/rQpHme7Z5TmVPRcv8>

**Selection Criteria:** Selection will be done based on first-come-first-serve basis to a **maximum number of 50 (Fifty)**. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the Online payment will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course.

## Important dates:

**Last date for Application with fee: 15<sup>th</sup> June 2022**

**Selection List by Email: 17<sup>th</sup> June 2022.**

## About NITW, EE Department, Warangal:

**NIT Warangal**, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. Its R & D activities have gained momentum with funding/MoU from governmental agencies/industries.

**The Department of Electrical Engineering** was established as one of the major departments of NITW, in the year 1959. It offers B.Tech in Electrical & Electronics Engineering, M.Tech program in Power Electronics & Drives and Power Systems and Ph.D program. Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140Km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 2 Km. away from Kazipet junction and 12Km. away from Warangal station.

## About VCE, EEE Department:

Vasavi College of Engineering (Autonomous) is established in the year 1981 under the aegis of Vasavi Academy of Education. The college is accredited by NAAC with 'A++' grade. With dedicated efforts of about four decades, Vasavi College of Engineering has emerged into a centre of excellence in engineering education. The Department of Electrical and Electronics Engineering was started in the year 1999 offering undergraduate programme. The Department has started Post graduation programme in Power Systems and Power Electronics from 2012-2013 with an intake of 24. A good number of EEE graduates seek admission to higher studies abroad and also in IITs, NITs and IIMs. The Department has well equipped laboratories, and well qualified, dedicated, experienced and trained faculty with a deep sense of commitment towards the students and the college. The department is accredited by NBA for a period of three years.

**FDP Mode & Venue:** Offline & EEE Department, VCE, Hyderabad.

## Coordinators:

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