5 day Online FACULTY DEVELOPMENT PROGRAM (FDP)
ON
Resilient Energy Ecosystems: The Synergy of Microgrids, Electric Vehicles and Smart Storage

27-07-2026 to 31-07-2026

Organized by

CENTRE FOR TRAINING AND LEARNING, NIT Warangal

(Established under the PMMMNMTT Scheme, Ministry of Education, Govt. of India)

in association with

Anil Neerukonda Institute of Technology and sciences (Autonomous), Visakhapatnam

Preamble:

The Centre for Training and Learning (CTL) has been established at NIT Warangal with grants from the Ministry of Education, through its scheme *"Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)".*Under this Scheme, a separate building has been built exclusively for the CTL activities, with the state-of-art training facilities that include a studio for production and uploading of video and e-lectures on various subjects of higher education, training halls to train the faculty in various theme areas of Science and Technology, humanities and social sciences, linguistics and communication skills, pedagogy and cognition evaluation, etc. among others. One of the important objectives of the Centre is to conduct training programmes for the aspiring, newly inducted and in-service faculty in science, engineering, social sciences disciplines in higher education. Other activities of the CTL include preparation of print and e-learning materials, offering on-line courses, curriculum design, carrying out research in educational technology and pedagogy and integrating with ICT into teaching-learning process. The CTL has special programmes of training for the marginalized and women-faculty.

About FDP:

This FDP is devoted to addressing the design, challenges, and grid integration of EVs and ESS represent both the promise and complexity of transitioning to a sustainable energy future. Their importance lies in their ability to mitigate climate change, enhance energy resilience, and supports a more sustainable and connected society, which is being conducted online at the National Institute of Technology, Warangal, and the **ANITS Visakhapatnam**. Academicians and industry experts handle the whole course

Major Course Contents:

- Introduction to electric vehicles and various energy storage systems and applications
- Impact of EVs on the grid ,V2G and G2V technology
- Motors and their sustainability for EVs
- Energy Source: Batteries, Battery parameters, Types, Selection ,Battery modeling
- BMS and EMS ,new battery technologies and forecasting
- Various meta heuristic techniques used in BESS and EV Optimizations
- Optimal Locations for EV Charging stations
- Future Technology in EV and ESS.

Faculty conducting this Programme:

The programme will be conducted by the faculty members from NIT Warangal and Academicians in the concerned field from IITs/NITs/IIITs have been invited to deliver lectures in the programme.

Registration Fee Particulars:

Faculty	**Rs.1180/-**
Students / Research Scholars	**Rs. 590/-**
Industry Participants	**Rs.2360/-**

Registration fees include GST. Participants need to pay the registration fees online using the following details:

Online Transfer Details

Account Name: **HEAD, CTL NITW**
Account No: **40376545007**
IFSC: **SBIN0020149**
Bank and Branch: **SBI, NIT (REC) Warangal**

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

https://docs.google.com/forms/d/1nLIDHJIfMsp7Havofor0Tln-FTriokTe7fMc5k3X1jI/preview

Selection Criteria:

Selection will be done based on first-come-first-serve to a minimum number of 50 (fifty) Faculty/industry participants. Additionally, students/PhD scholars are allowed to participate. The list of selected participants will be intimated through e-mail. In case the candidate is not selected, the registration amount will be refunded. Candidates will be issued certificates on successful completion of the course.

Important dates:

Last date (Application & DD)	25-07-2026
Selection List through mail/whatsapp	26-07-2026

About NIT Warangal:

National Institute of Technology 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 31 post-graduate programs besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and research laboratories.

About ANITS Visakhapatnam :

Anil Neerukonda Institute of Technology & Sciences (ANITS) (Autonomous) Visakhapatnam is owned by Megha Engineering and Infrastructure Limited (MEIL) which is one of the top infrastructure and manufacturing company in India with headquarters at Hyderabad. The institute was established in the academic year 2001-02.ANITS has been accredited by NAAC with A+ grade and all its B.Tech programs are accredited by NBA under Tier-1. ANITS permanently affiliated to Andhra University and it has been accorded the status of "Centre for Research" for guiding Ph.D scholars

Coordinators:

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