



**ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
Advanced Power Electronics, Drives & Storage Systems
For E-Transportation in India
(25th April – 06th May, 2022)**



**Organized by
E & ICT Academy & Department of Electrical Engineering, NIT Warangal**

In Association With

**G. Narayanamma Institute of Technology & Science (for women) Autonomous, 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. It is due to development of switching devices, magnetic components, control techniques, computational methods, DSP/FPGA controllers, etc. Applications of power electronics can be found in several areas like Renewable Energy, industry, transportation, medical, telecommunication, residential energy systems, electric vehicles etc. Certain low and high power switching converters are developed in these areas. Also, this FDP aims at giving scope for future research.

Objectives: FDP aims at giving scope for future research on:

- Advanced Electric Drives and Control Techniques for EVs
- Wireless charging infrastructure for transportation electrification
- High Power Density Converters for electronic products
- High Bright LED lighting systems for indoor/outdoor applications
- Advanced storage technologies for fast charging in EVs.
- Energy Efficient Drives especially for elevators
- Power converters for renewable energy interface.
- Hands on exposure to renewable integration & power converters.
- Enabling technologies for Smart Electric Vehicles

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 500 /-
Industry Participants	Rs. 1500/-

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: Young & Energetic eminent & finest Researchers & Faculty from International Universities IITs, NITs, IIITs & Industry experts.

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/HHj6WmKMUlEpzvWx5>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100 (hundred). The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the Online/DD payment will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date for Application with fee: 20th April 2022

Selection List by Email: 22nd April 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 GNITS, EEE Department, Hyderabad:

G. Narayanamma Institute of Technology & Science (GNITS), Hyderabad, a leading Engineering college for women, was founded by late Mr G. Pulla Reddy in 1997, with the noble intension of empowering young women in engineering education and careers. GNITS received UGC Autonomous status for 10 years from 2018 and is affiliated to JNTU-H, Hyderabad with accreditation from NAAC, NBA and ISO certified. GNITS offers 8 UG courses (CSE, ECE, EEE, IT, ETE, AI&ML, Data Science, CS&T) & 5 PG courses (CSE, DECE, WMC, CNIS, PEED) with a total intake of 930. GNITS is the first college in India to establish Apple Lab inaugurated by Tim Cook. Its excellent infrastructure provides opportunity for students to excel and secure placements in top MNC's on par with NITs, IIITs and IITs.

The Department of Electrical and Electronics Engineering (EEE) was started in the year 1997. The department has 9 doctorates and 17 pursuing Ph.D. from reputed universities, and is constantly catering to the needs of the industry by training students to make valuable contribution to produce qualified technocrats. Both UG & PG are accredited by NBA. Latest laboratories like R&D lab, Virtual lab, PQ lab etc., were established in the department. 75% of eligible students from EEE are placed in top MNC's and core companies. The Department is responsible for Electrical maintenance of the entire Institution and also for the manning & operation of 750KVA(500KVA+250KVA) Diesel Power House, and all other electrical utilities including the 165KW Solar power plant in the campus.

Chief Patron : Dr.K. Ramesh Reddy, Principal

Convenor : Dr.N.Malla Reddy, Prof & HOD- EEE

Coordinators:

Dr. B. L. Narasimharaju Associate Professor Electrical Engineering Dept. NIT Warangal, Pin:506004 Email: bnraju@nitw.ac.in Mobile: 9448401052	Mrs. K Swarna Latha Assistant Professor EEE Dept. GNITS Hyderabad, Pin: 500104 Email: swarna.kandukuri@gnits.ac.in Mobile: 88017 08632
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