



# NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL-506004, TELANGANA

## FACULTY DEVELOPMENT PROGRAMME (FDP)

On

### Power Electronics

Organized by:

**Electronics & ICT Academy and Department of Electrical Engineering**

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

**(11<sup>th</sup> December-20<sup>th</sup> December 2017)**

#### Preamble:

"Electronics & ICT Academy" was set up at NIT-Warangal with financial assistance from MeitY, GOI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Puducherry, Goa and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and 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 course is suitable for practicing engineers, researchers in academia and industry as well. The purpose of conducting this 10-day workshop is to provide the participant with precise theoretical and practical up to date exposition of power electronics. This training enhances the instrumental capabilities of a faculty for teaching under graduate students which is supported by hands on.

This faculty development programme (FDP) is devoted to fundamentals of power electronics, insights of AC-DC rectifiers, DC-DC converters, DC-AC inverters and their applications to energy conversion, power quality improvement, PV systems, Vehicle to Grid, Wind power generation, FACTS devices, etc.,

#### Major course contents:

- ✚ Fundamentals of power electronics
- ✚ Semiconductor devices
- ✚ Isolated and non-isolated converters
- ✚ Single and three phase inverters
- ✚ Application of power electronics
- ✚ Laboratory based experiments

#### Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal. Academicians in the concerned field from IIT-G, IIT-D, IIT-K, IIT-B and MNIT are invited to deliver lectures in the programme.

**Eligibility:** The programme is open the faculty members of engineering colleges, technical institutes, universities and other allied disciplines in Telangana, Andhra Pradesh, Karnataka, Puducherry, Goa and Andaman & Nicobar Islands. Industry personnel working in the concerned/allied discipline can also attend.

#### Registration Fee particulars:

Faculty and Research Scholars from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa	Rs. 3000/-
Faculty of SC/ST Category from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa	Rs. 1500/- (SC/ST participants should submit the copy of their caste certificate to claim the concession along with application form)
Persons from Industry	Rs.9000/-

The participants need to send a crossed demand draft (DD) drawn in favour of "Director, NIT Warangal" and payable at SBI, NIT Warangal branch.

#### Accommodation:

All the selected participants will be provided FREE boarding & lodging in the institute guest house. No TA will be paid for the participants.

#### How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through email to [ub@nitw.ac.in](mailto:ub@nitw.ac.in) as selection will be intimated only through mail.

#### Selection Criteria:

Selection will be done based on first-cum-first-serve basis and the confirmed candidates will be notified immediately. The maximum number of participants will be 50(fifty). Additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified in the institute web site [www.nitw.ac.in](http://www.nitw.ac.in) and also will be sent to their personal e-mail ids. In case a candidate is not selected, the demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued certificates on successful completion of the course along with grade. Reservations are followed for selecting candidates as per GOI norms.

#### Important Dates:

Last date for submission of application: **01-12-2017**

Selection list intimation/display before: **05-12-2017**

Duration of program: **11<sup>th</sup> December – 20<sup>th</sup> December 2017**

#### About the Institute and department:

National Institute of Technology (formerly known as Regional Engineering College), Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institution imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering and M.Tech. and Ph.D. programs in various specializations. All B.Tech. and M.Tech. programmes of NIT Warangal are NBA accredited.

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 to various places in the country. NIT campus is 3km away from Kazipet railway station and 15 km away from the Warangal railway station. Participants are advised to alight either at Kazipet or Warangal depending on their train of travel. The local weather during December is pleasant. The average temperature is about 25-30°C during day and about 20°C during night.

The Department of Electrical Engineering offers an undergraduate program in electrical & electronics engineering, two post-graduate programs in the specializations of Power Systems and Power Electronics & Drives and also offers Ph.D. program. The Department has well qualified, experienced faculty and good laboratory facilities with state-of-the-art equipment. The Department has very strong interaction with several reputed industries and R&D organizations like DRDO, MNRE, etc., The Department has been executed several consultancy and R & D projects. Department conducts various sponsored programmes throughout the year.

#### Address for correspondence:

Post your application form with DD to

Dr. Udaya Bhasker Manthathi,  
Assistant Professor,  
Electrical Engineering Department,  
NIT-W, Warangal-506004, Telangana.

Mail the scanned copies of filled-in and duly signed application form with DD to [ub@nitw.ac.in](mailto:ub@nitw.ac.in)/ [manuday0109@gmail.com](mailto:manuday0109@gmail.com)

For more information visit: <http://nitw.ac.in/eict/>

#### For any enquiry contact:

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Mobile: +91 9703264416/+91 8332969293  
Landline: 0870-2462241

#### Local Coordinator,

Dr. Udaya Bhasker Manthathi

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