



## TEQIP-III

*Third phase of Technical  
Education Quality  
Improvement Programme*

*A FIVE Day  
Continuing Education Program on*

### **ADVANCED TECHNOLOGIES IN POWER ENGINEERING**

*On the eve of Diamond Jubilee  
Celebrations of NIT (REC), Warangal*



*17<sup>th</sup>-21<sup>st</sup> December 2018*

*Sponsored by TEQIP - III*

### **Call for Registration and Participation**

#### **Coordinators**

**Dr. Chandrasekhar Yammani**

**Dr. Altaf Q. Badar**

**Prof. Sydulu Maheswarapu**

#### **Organized by**

**Department of Electrical Engineering**

**National Institute of Technology**

Warangal – 506 004

Telangana State, India

#### **Background:**

Modernization of Power Systems is taking place in multiple facets like power system protection, renewable energy generation and its integration, energy storage, energy management, etc. The advanced Power System is made of grids / microgrids having their own generation and storage systems and involving modern loads like Electric Vehicles and Smart Homes. Different energy management techniques are being evolved to handle these modern loads. Other than management of loads, for secure working of such a system the protection methods are being evolved with varied objectives of protecting grids. Also with the advent of smart grids, new technological requirements have emerged like communication methods in smart grids and other applications like, Blockchain, Big Data, ANFIS, etc.

#### **Objectives of the Programme:**

- To enable the participants to conceptualize the working environment of modern power systems.
- To enhance the understanding of the participants in smart grid communication, protection and storage technologies.
- To empower the participants with usage of Python software applications.

#### **Registration is open to:**

Faculty members and Research Scholars working in engineering institutions.

#### **Topics of the Programme:**

- ✓ Integration of Generation from Renewable Energy Sources with Grid.
- ✓ Power Electronics for Renewable Power Source Integration
- ✓ Microgrid Modeling and Control Issues
- ✓ Modern Power System Protection Techniques
- ✓ Smart Home Energy Management Systems
- ✓ Power System Applications using ANFIS
- ✓ EV Charging Station Energy Management
- ✓ Energy Storage Systems
- ✓ Study of Data Attacks on Power System
- ✓ Advanced Communications for Smart Grid
- ✓ Blockchain Technologies
- ✓ Big-Data Technologies

#### **How to Apply:**

- Interested candidates can download brochure & registration form from our Institute website <http://www.nitw.ac.in>. The number of participants in the workshop is limited to **40**. Candidates are advised to apply early to avoid disappointment.
- Application in the prescribed format duly sponsored by Head of the Institution along with the registration fee in the form of ONLINE Bank Transfer to Account Number: **37583198741** (A/C Name: TEQIP III Funds, SBI, NIT Warangal Branch, IFC Code: SBIN0020149) should reach the coordinator (Through E-mail or Post) on or before **05-12-2018**.
- Only after receiving the proof of payment of registration fee from the participants through E-mail, they will be sent confirmation of their participation through E-mail immediately.

**Accommodation:**

Accommodation for outstation participants will be provided on request in the Institute Visitor's Block or International Students' Hostel.

**Registration Fee:**

The registration fee is **Rs. 2000/- for Faculty and Research Scholars** and **Rs. 5000/- for Industry participants. The fee shall include accommodation, breakfast, lunch and dinner.** The registration fee for internal faculty will be Rs. 500/-.

**Resource Persons:**

Eminent faculty of the Electrical Engineering department and Faculty from IITs, other NITs & Industry who have the expertise in these areas will be delivering lectures.

**About Warangal:**

Warangal is the second largest and smart city of the state of Telangana. It is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202). It is a seat of tourist attractions with a number of historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Laknavaram Lake located in a radius of 30 kms.

**Contact Details of the Coordinators****Dr. Chandrasekhar Yammani**

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**Brief profile of the Department of Electrical Engineering:**

The Department of Electrical Engineering was established as one of the major departments of NITW, in the year 1959. The Department is actively engaged in teaching and research in diverse fields of Electrical Engineering. It offers B.Tech in Electrical & Electronics Engineering, M.Tech program in Power Electronics & Drives and Power Systems and Ph.D program. Broad areas of expertise of the department include Design and development of Smart Grid/ Microgrid systems, Control and integration of Renewable Energy Sources, State Estimation and Real Time Control of Power Systems, AI Applications in Power Systems, Power System Deregulation, Power System Transients, Power Quality, Application of Power Electronics to Power Quality Improvement and Industrial Drives, DSP controlled Drives, Simulation of Power Electronic Converters and Drives Systems and Control of Special Machines. The Department has strong Industry interaction and is involved in various Research & Consultancy projects in coordination with industry, Governments of India, Telangana & Andhra Pradesh.

**About NIT 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 31 post-graduate programmes 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 laboratories. Now NIT Warangal is celebrating Diamond Jubilee (1959- 2019).

TEQIP-III Sponsored

**A Five-Day Continuing Education Program on  
Advanced Technologies in Power Engineering  
17<sup>th</sup> -21<sup>st</sup> December, 2018**

**On the eve of Diamond Jubilee Celebrations**

Department of Electrical Engineering  
NIT Warangal, 506004 (T.S.)

**Registration Form**

- 1 Name:
2. Designation:
3. Organization:
4. Address for communication:

Email:

Phone/ Mobile No:

5. Accommodation required (Tick): Yes/No

6. ONLINE Bank Transfer Particulars:

i) Amount: Rs.

ii) Transaction No.:

iii) Bank:

iV) Date:

**Declaration:** The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the course and shall attend the course completely

Place &amp; Date:

(Signature of the applicant)

Recommended and Forwarded

(Signature of the Head of the Department/ Institution  
With Office Seal)