



ONLINE-FACULTY DEVELOPMENT PROGRAMME (FDP)-ON

Design, Modeling and Control of Renewable Energy Resources

(21- 09- 2020 to 26- 09- 2020)

Organized by

Center for Continuing Education & Department of Electrical Engineering,
NIT Warangal

About the NIT Warangal:

National Institute of Technology, 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 Institute imparting technical education of a very high standard leading to the B.Tech degrees in all major branches of engineering, M.Tech. and Ph.D programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

Centre for Continuing Education Programme of NIT

Warangal: This Centre of NIT Warangal organizes Continuing Education Programmes and Workshops in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and Socially relevant themes on self-financing basis in three different modes: (i) At NIT Warangal with faculty of NIT (ii) At NIT Warangal in collaboration with other organizations (iii) By NIT Warangal Faculty at the Host Organization/Institute.

About the Electrical Department:

The Department of Electrical Engineering offers an undergraduate program in Electrical & Electronics Engineering, three Post-graduate programs in the specializations of Power Systems, Power Electronics & Drives, and Smart Electric Grids 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. Currently the Department is executing several consultancy and R&D projects.

About the Course:

The renewable energy resources based clean energy generation are the alternatives developed to curb the environmental issues caused by conventional thermal generation. From past few decades many countries are aiming to generate 100% clean energy using renewable resources such the PV, Wind, etc. Even Government of India has targeted to install around 175GW of renewable power capacity that includes 100GW of solar photovoltaics (PV), 60 GW of wind, 10GW of bio-power and fuel cell-based power, 5GW of small hydro power plants by 2022. Before building any renewable plants, various case studies are to be carried out on simulation platform so that grid operation does not get affected. To carry out these case studies, the proper modelling of these sources is needed which will be discussed in this workshop. The renewable sources like PV, wind and fuel cells use the power electronic interface to integrate with the grid. Proper converter and control design are required based on the source capacity and integration points which will be presented in the workshop. Further with large proliferation of these renewables which are mostly uncertain and pose various challenges in the grid operations. In this workshop, some of the challenges posed by large scale renewable

Application Form:

1. Name :
2. Designation :
3. Institution :
4. Phone no :
5. Email:
6. Address for Correspondence:
7. Educational Qualification:
8. Subjects taught so far:
9. No. of FDP's/workshop attended:
10. Experience (in years):
Teaching: Research:

Payment Details:

Name of Bank: Amount in Rs:
Transaction ref no: 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 FDP and shall attend the course for the entire duration.

Signature of the Applicant

Recommended and Forwarded
Signature of Head of
Institute (with seal)

Note: Only online applications are considered.

How to Apply: Interested candidates can apply online by clicking below

link. <https://forms.gle/SLfZP276sCM32zuL8>

Note: Last date of application 05- 09-2020, 5 pm.

Who should Attend?

The program is open to faculty and research scholars of all Engineering, colleges and other allied disciplines in India.

Registration: Registration fee is Rs. 500

Account Name: Center for Continuing Education,
NITW

BANKNAME: SBI
ACCOUNTNO: 62403680215
ACCOUNT TYPE: Saving Account
IFSC CODE: SBIN0020149
BRANCH: NIT-WARANGAL

For any queries regarding this programme,
please contact the coordinators:

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Speakers:

Dr. Chandrashekar Narayn Bhende IIT Bhubaneswar	Prof. Maheswarapu Sydulu NIT Warangal	Mr. B.Kondala Rao ABB Boroda
Dr. Vaskar Sarkar IIT Hyderabad	Prof. D.M. Vinod Kumar NIT Warangal	Mr. Rajesh Maurya Typhoon HIL
Dr. Sabha Raj Arya NIT Surat	Prof.D.V.S.S.Siva Sarma. NIT Warangal	
Dr. B.Chitti Babu IIIT Kancheepuram	Dr. A. Kirubakarn NIT Warangal.	

Brief Workshop Schedule:

Morning Session*: 10:30 AM to 1:00 PM

Afternoon Session*: 2:30 PM to 5:00 PM

*15 minutes in between break in each session.

Pre-requisites:

- Basics of control systems, power systems, and power electronics.
- Laptop with internet facility.

Note:

E-certificates will be provided to the participants who attended all six days of sessions