



FACULTY DEVELOPMENT PROGRAMME (FDP) ON

Operation and control of various sources in Microgrid

(20 – 07 – 2020 to 24 – 07 – 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, 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. Currently the Department is executing several consultancy and R&D projects.

About the Course:

In the past few years, India is very much focusing on the last mile connectivity of power supply. Achieving this using conventional central power grid may encounter technical and economic issues. Microgrids are one best way to achieve it by connecting multiple distributed energy resources such as PV, wind, Fuel cells, Micor-turbines, Energy storage system, conventional Diesel generators. Most of these distributed resources are connected to the distribution network using power electronic converters which has faster and better controllability. Microgrid can be operated either in grid connected or islanded. However, the control strategies for individual sources in the grid connected mode will be different compare to islanded mode. The design of control schemes in autonomous mode microgrids is very vital for the smooth, stable, and reliable operation of the microgrid. A hierarchical control scheme is one such approach that ensures the frequency and voltage restoration along with the economic or proportional power-sharing. In this context, different levels of control schemes for microgrids will be discussed. Further, there can possibilities of large proliferation of single phase PVs and EVs at residential areas. With large non-uniform distribution these sources in all three phase may lead to increase in voltage unbalance. The suitable control strategies to reduce such

Application Form:

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

Payment Details:

Name of Bank: Amount in Rs:

Transaction refno: 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)

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

link. <https://forms.gle/YqnSxhitGBPwydCY6>

Note: Last date of application 19 – 07 – 2020.

Who should Attend?

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

Registration: Registration fee is 500 Rs.

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,
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