

COURSE CONTENTS

Energy crisis is increasing enormously day after other, electric power generation using traditional methods causing global warming and environmental degradation. Electricity is a key to economic growth and substance in global scenario. Above aspects draws an attention to green and clean production of energy using renewable energy sources. The microgrid technologies focus on integration and management of different energy sources and energy storage systems for sustainable energy society.

This workshop is intended to cover certain specific application areas where there is increasing demand for improved converter topologies, control techniques, energy management etc. For example, hybrid energy storage systems have several applications like micro grid, smart grid, nano grid, electric traction, electric vehicles, etc. It requires accepting variations at source & load stages with high efficiency. Demonstration of certain experimental setup will be done. Also, this workshop aims at giving scope for research.

COURSE CONTENTS

- ⚡ Renewable Power Generation
- ⚡ Microgrid and Smart grid Technologies
- ⚡ Control of Renewable Power Generation
- ⚡ Hybrid Energy Storage Systems
- ⚡ Energy Management Techniques
- ⚡ Electric Vehicle as a Isolated Microgrid
- ⚡ DC Microgrid and its Applications
- ⚡ Power Electronic Converters for microgrid

ABOUT THE INSTITUTE AND WARANGAL

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 State Government. Over the years the institute has established itself as a premier Institution imparting technical education of a very high standard leading to the B.Tech, M.Tech and Ph.D. Degrees in various specializations. With a view to give further impetus to the technological education, the Central Govt. upgraded the RECs into NITs, and conferred the Deemed University status. This year NITW has completed 60 years and celebrating Golden Jubilee events.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140 Km from Hyderabad. Warangal is well connected by rail and road to various places in the country. NIT campus is 3 km. away from Kazipet railway station and 15 km. away from the Warangal railway station.

ABOUT THE 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.

ADDRESS FOR CORRESPONDANCE

Dr. Udaya Bhasker Manthati

Coordinator

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National Institute of Technology Warangal
WARANGAL – 506 004, Telangana.**

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A FIVE-DAY ONLINE CONTINUING EDUCATION PROGRAM

on

Integration and Management of Distributed Energy Resources for Microgrid Technologies

(6th-10th, December 2021)

Sponsored by

**Centre for Continuing Education
NIT Warangal**



Coordinators

Dr. Udaya Bhasker Manthati

Assistant Professor, EED

and

Dr. Suresh Babu Perli

Assistant Professor, EED

Organized by

**Department of Electrical Engineering
National Institute of Technology
WARANGAL-506004,
TELANGANA, INDIA.**

RESOURCE PERSONS

Academicians from IITs / NITs & Professionals from reputed industries.

ELIGIBILITY

The program is for the Faculty members from various Engineering colleges/ Institutions working in the field of Power Systems & Power Electronics. Working professionals and practicing engineers from various Research Organizations and Industries, and Research scholars can also apply.

SELECTION

The number of participants is limited to **sixty**. The selected participants will be informed on **03.12.2021**.

REGISTRATION FEE

Industry/Research professionals: Rs.1000/-

Faculty: Rs.500/-

Students: Rs.500/-

Account Name: CCE NITW

Bank name : SBI

Account NO : 62403680215

IFSC CODE : SBIN0020149

Branch :NIT WARANGAL

IMPORTANT DATES

Application in softcopy form should be accompanied by the registration fee.

Last date for submission of filled in application is **02.12.2021**.

Selected candidates will be informed on **03.12.2021**.

REGISTRATION

For registration, kindly fill the online form, upload scanned copies of the registration form and the proof/receipt of IMPS/NEFT/RTGS using the link: <https://forms.gle/VfB8DXYJLct9dxVW9>

SPONSORSHIP CERTIFICATE

Dr./Mr./Mrs./Ms. _____
_____ is an employee of our institute and is hereby sponsored to participate in the five-day workshop on **Integration and Management of Distributed Energy Resources for Microgrid Technologies** during 06th to 10th, December 2021, organized by Department of Electrical Engineering, NIT Warangal-506004.

Place:

Date:

Signature of Head of the Department

(With Seal)

N.B.:

1. Brochure & application form can also be downloaded from our website: <http://www.nitw.ac.in>
2. List of selected participants for the workshop will be displayed in the institute website as mentioned above on 03.12.2021

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Organized by: Department of Electrical Engineering, NIT Warangal

Name: _____ Gender: _____

Designation: _____ Highest-qualification/ Specialization: _____

Institution: _____

Address for correspondence: _____

Email: _____ MobNo: _____

Details of payment of Course Registration Fee(NEFT/RTGS only):

Amount paid: _____ Date: _____

Transaction No: _____ Bank: _____

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 for the entire duration. I also undertake the responsibility to inform the coordinator in case, I am unable to attend the course.

Place: _____ Signature of the Applicant

Date:

Signature of Head of the Department