Energy crisis is increasing enormously day after day, electric power generation using traditional methods causing global warming and environmental degradation. Electricity is a key to economic growth and substance in the 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 Postgraduate 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**
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Mobile No: +91 9703264416

**A FIVE-DAY ONLINE CONTINUING EDUCATION PROGRAM**

**Integration and Management of Distributed Energy Resources for Microgrid Technologies**

*(6th-10th, December 2021)*

**Sponsored by**
Centre for Continuing Education  
NIT Warangal

**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

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
Organized by: Department of Electrical Engineering, NIT Warangal

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 î 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

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