

# DISTRIBUTED GENERATION AND MICRO-GRID

August 9-14, 2021

## CURRENT CHALLENGES

### Conventional power system



- Depletion of Fossil Fuel Resources
- Poor Energy Efficiency
- Environmental Pollution

### Distributed generation

- Multiple generation sources
- Bi-directional power flow
- Power flow time co-ordination and management



## SOLUTIONS WE WILL LEARN



- Impact of distributed generation on microgrid
- Islanding detection techniques on microgrid
- Power quality and electromagnetic compatibility
- Wide area power system monitoring and control
- Distributed cyber security techniques for smart grid

**A microgrid is defined as a type of the grid consisting of prime energy movers, power electronics converters, distributed energy storage systems and local loads.**

Last date

August 7, 2021

Registration Fee

Free of Cost

Registration Link

<https://forms.gle/TsGQNiAFwtCeukWg6>

**Registration  
Details**

Organised by

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH

in association with

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI

**Certification:**  
*E-certificates shall be issued to all attendees on 80% attendance.*

## Experts Speakers

*Dr. Bhim Singh, Professor, IIT Delhi*

*Dr. B.K.Panigrahi, Professor, IIT Delhi*

*Dr. Bidyadhar Subudhi, Professor, IIT Goa*

*Dr. Barjeev Tyagi, Professor, IIT Roorkee*

*Dr. Bhavesh Kumar Bhalja, Professor, IIT Roorkee*

*Dr. Santosh Biswas, Professor, IIT Bhilai*

*Dr. A.V.Ravi Teja, Associate Professor, IIT Ropar*

*Dr. Prashant Agnihotri, Associate Professor, IIT Bhilai*

*Dr. Anandarup Das, Associate Professor, IIT Delhi*

*Dr. Bharat Singh Rajpurohit, Associate Professor, IIT Mandi*

*Dr. Narsa Reddy, Associate Professor, IIT Mandi*

*Dr. Vineetha Ravindran, Lulea University of Technology, Sweden*

*Dr. Hamed Bakhtiari, Lulea University of Technology, Sweden*

## Participation Details:

*The STC will be conducted online, and is open to the Faculty members of technical institutions preferably from the Electrical Engineering Department. Other accepted departments are Electronics, Instrumentation, Computer Science & Mechanical Engineering. Postgraduate students and Ph.D. Scholars can also apply.*

## Programme Coordinator

**Dr. Lini Mathew**

*Professor and Head*

*Electrical Engineering Department, NITTTR, Chandigarh*

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*National Institute of Technical Teachers Training and Research (Formerly TTTI), Chandigarh is one of the four national institutes established by the Government of India in 1967 for the development of technical education in the country. The institute offers a wide range of Short-Term Courses for faculty and staff of technical institutions from all around the country. NITTTR also offers both part-time and regular Masters' Degree and Ph.D. programs in six engineering disciplines.*



*Union Territory and the Capital City of the states of Punjab and Haryana, Chandigarh is one of India's most beautiful cities, planned in the 1950s by the famous French architect Le Corbusier. Chandigarh is known for its lush-green landscapes, meticulous urban planning, post-colonial Indian modernism, symmetrical architecture, and its place as the top-ranking Indian city in the Per-capita Income Index and the Happiness Index for many consecutive years. Chandigarh is the tourist hub of North India, featuring the famous Rock Garden, Rose Garden, Sukhna Lake and the Museum & Art Gallery, but its true wealth lies in its educational institutes, boasting of world-class schools and colleges such as PGIMER, Panjab University and NITTTR.*

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