

**5-Day Online**  
**Short Term Course**  
on

**RECENT TRENDS IN**  
**MICROGRID-2020**  
**(RTM-2020)**

[Oct 27 – 31, 2020]



*Organized by:*

**Department of Electrical Engineering**  
**National Institute of Technology**  
**Jamshedpur, Jamshedpur**



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Dr. Umesh K. Sinha, NIT Jamshedpur  
Dr. Jitendra Kumar, NIT Jamshedpur  
Dr. Om Hari Gupta, NIT Jamshedpur

**IMPORTANT DATES**

**Registration fee** : NIL  
**Registration starts** : 19/09/2020  
**Registration ends** : 23/10/2020  
**Notification to shortlisted candidates** :  
25/10/2020  
**Dates of short-term course** :  
27/10/2020 - 31/10/2020

**REGISTRATION LINK**

<https://forms.gle/rDM3kgehoLvDFDHq6>

**ISSUANCE OF CERTIFICATE**

1. If a participant **opts for MCQ-based course-exam\*** and **qualifies it**, he/she will be given a **course certificate**. The participant should attend all the sessions to be eligible for MCQ-based course-exam.
2. If a participant **opts for MCQ-based course-exam\*** and **does not qualify it**, he/she will be given an **attendee certificate**. The participant should attend all the sessions to be eligible for MCQ-based course-exam.
3. If a participant **does not opt for MCQ-based course-exam**, he/she will also be given an **attendee certificate**. The participant should attend all the sessions to get an **attendee certificate**.

*\*MCQ-based course-exam will be from the contents of the expert lectures of RTM-2020.*

### About the Institute

The National Institute of Technology Jamshedpur (NIT Jamshedpur), is an Institute of National Importance located at Jamshedpur, Jharkhand, India. Established as a Regional Institute of Technology in 1960, it was upgraded to National Institute of Technology (NIT) on 27 December 2002 with the status of Deemed University. It is one of the 31 NITs in India, and as such is directly under the control of the Ministry of Human Resource Development (MHRD). It is the third in the chain of eight NITs established as a part of the Second Five Year Plan (1956–61) by the Government of India. The Institute has twelve departments including engineering, science and humanities. The institute offers a 4-year Bachelor of Technology degree in the various streams. The institute also offers Master and Ph.D degrees in various streams. The institute is bound to the quest for academic excellence and good governance, growth of institute, admired and respected institute for students, employees and industry, innovative leader.

### About the Department

The Department of Electrical Engineering was started in 1960. The Department has been consistently producing quality Engineers since its inception and is also involved in research and development activities. The alumni of the department are well placed in both public and private sectors. In addition to the UG programme the department runs PG programme in Power Systems and Power Electronics and Drives and Ph.D. program in different areas of specialization.

### Course Objective

To fulfill the increasing electric power demand one of the ideal ways is to incorporate small renewable-based generations to the existing distribution system. The distribution system embedded with distribution generations (DGs) is called a microgrid. Adding DGs possesses new challenges such as control, operation and management, and protection of microgrid. Therefore, the aim of RTM-2020 is to provide thorough knowledge and understanding about the topic and to equip with new ideas related to research and development.

### Short term course topics:

- Basics of microgrid
- Distributed generations (DGs)
- Pros and cons of different DGs
- Operation and control of renewable-based DGs
- Challenges in microgrid with embedded DGs
- Impact of DGs on environmental pollution
- Protection against fault in microgrid
- Protection against islanding in microgrid
- Voltage stability
- Deregulation in a microgrid environment
- Other relevant topics

### Number of Seats:

Limited number of seats are there on first cum first serve basis.

**The short-term course will be organized in an online mode and the link for attending the course will be shared only with the shortlisted candidates.**

### Course will be useful for:

Research Scholars, M.Tech/B.Tech students, faculty members of Science/Engineering discipline, Industry personnel, etc.

### Correspondence:

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### Coordinators:

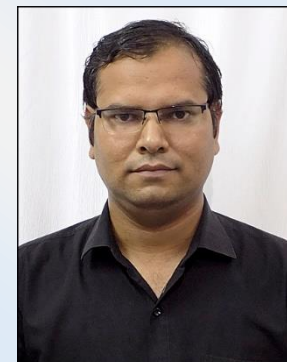
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