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A Five Day Online Workshop

on

Microgrid: Issues, Challenges, and its Mitigation

(25th Nov. - 29th Nov. 2022)



Organized by

Department of Electrical Engineering
National Institute of Technology,
Uttarakhand

About Workshop

Due to its favourable economic and environmental effects, reduced power losses, and compact infrastructure, microgrids are becoming more and more popular. However, it faces a number of operational difficulties including poor power quality, unstable power systems, dependability problems, and

protection issues. A critical concern for the reliable operation of the microgrid is the microgrid protection plan. The microgrid protection plan needs to adhere to the prerequisites for both islanded and grid-connected operational modes.

The Workshop deliberations will be on the following themes:

- Effect of increasing penetration of Distributed Energy Resources into the Microgrid
- The environmental and economic benefits of the Microgrids
- Stability, reliability, and Protection of Microgrids
- Challenges for storing the Electrical Energy
- Requirement of Energy Storage, its effect, and Solution
- Power management

Resource Persons

Experts from IITs/NITs/Universities/Industries

Registration

Registration link:

<https://forms.gle/gp2KU93k2Wmyb5D4A>

Registration fee for all delegates from Academia (Faculty/UG/PG/Ph.D Scholars),

R&D Organizations/Industry-Rs 300/-.
The payment should be made online.

The institute's bank account details:

A/C Name: NIT Uttarakhand
Bank Name: SBI, Srinagar (Garhwal)
A/c No.: 37530566069
IFSC Code: SBIN0003181

About NITUK

National Institute of Technology, Uttarakhand (NITUK) is one of the 31 National Institutes of Technologies in the country. Since its inception, this Institute has grown in many fields and has established itself as one of the best Technical Educational Institutes. NITUK was established in 2009 under the Act of Parliament by the Ministry of Education (Shiksha Mantralaya). The Institute offers full time B. Tech. and M.Tech. Program in Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Mechanical Engineering and Civil Engineering.

Institute has shown consistent progress over the last 12 years of its operation. In the year 2022, the institute secured 131 rank in National Institutional Ranking Framework (NIRF) India ranking 2022 in the Engineering Category in almost 12,000 Institutions in the

country. Furthermore, NITUK is recognized in the band "PROMISING" under the category "Institute of National Importance & Central Universities/CFTs (Technical)" in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2021.

About, Deptt. of Electrical Engg.

The Electrical Engineering Department was established during the inception of the Institute in 2010. Department has a fine blend of young and dynamic faculty, providing quality education. The major areas of faculty expertise include Power Systems, Power Electronics, and Control System.

The Department is currently offering B.Tech. in Electrical & Electronics Engineering and M. Tech program in Electrical Engineering with two specializations (Power System and Control, and Power Electronics & Drives). The department is also offering Ph. D. program for full time and part-time researchers. Since the inception of NIT Uttarakhand Electrical Engineering Department has been working with vision-To be a premier department amongst the foremost technical institutions, through the pursuit of research excellence and the

promotion of innovation. The department is dedicated to encourage independent and critical thinking in students and culture their potentials to pursue high quality of research.