

“ IDEAS SHAPE THE COURSE OF HISTORY ”
- John Maynard Keynes

COMMITTEE

- 1 Patron**
Prof. H. M. Suryawanshi
Director, NIT Hamirpur (H.P.)
- 2 Chairman**
Dr. B. B. Sharma
HoD, DoEE, NIT Hamirpur (H.P.)
- 3 Convener**
Dr. O. P. Rahi
DoEE, NIT Hamirpur
- 4 Treasurer**
Dr. Jiwanjot Singh
DoEE, NIT Hamirpur

Organizing Committee

Faculty members of Electrical Engineering

Link for e-registration through Google form:
<https://forms.gle/r83fCrWWtkMYiGNi9>



About the Institute

National Institute of Technology Hamirpur is one of the thirty-one NITs of the country, which came into existence on 7th August 1986 as Regional Engineering College, a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh. On 26th June 2002, REC Hamirpur was awarded the status of Deemed University and upgraded to National Institute of Technology. The Institute offers Bachelor, Master and Doctoral programmes in Engineering, Sciences, Architecture, Management and Humanities. Various programmes serve the purpose of building a comprehensive foundation of knowledge and of enhancing confidence, creativity and innovation in its students.

About the Department

Electrical Engineering Department, established in the year 1986, is one of the oldest departments of National Institute of Technology Hamirpur. The Department has been imparting quality education at undergraduate and post-graduate level. The faculty members have been active in teaching and research activities. The course curriculum is being revised from time to time so as to keep students abreast with latest emerging technologies. Various departmental laboratories have been strengthened and modernized by procuring state of art equipment's. Department is also equipped with latest experimental and computational facilities for taking up R&D and consultancy activities in different areas of Electrical Engineering.

Five Days Online Faculty Development Programme

MICRO GRID: OPERATION, CONTROL AND PROTECTION

18 - 22, April, 2024

National Institute of Technology Hamirpur

Coordinators

Dr. Chandrasekaran S
Dr. Supriya Jaiswal

Organized by



Department of Electrical Engineering
National Institute of Technology Hamirpur

Himachal Pradesh

About the e-FDP

Microgrids (MG) provide electrical supply to small communities via low-voltage networks. It is also embedded with variety of distributed generators (DG), and storage systems. There are enormous issues in the integration of renewable energy sources (RESs) and DGs into main power grid. MGs offer appealing solution for this problem. However, due to lack of inertia or small inertia, there will be stability issues unlike conventional synchronous generators based power system. With exponential increase of penetration of RESs into the grid, the operation, control design and protection become quite challenging.

The objective of this FDP is to explore the Micro Grid concept, its operation, control and protection for the integration of RES and MGs into the power system utility.

e-Registration and Payment Guidelines

Registration Fee (Non-Refundable) (Through SBI Collect):

(a) Rs. 500 for Academia/R&D Labs

(b) Rs. 250 for Students

(c) Rs. 1000 for participants from Industry

1. Go to www.onlinesbi.com and select option State Bank Collect

2. Accept terms & conditions and Proceed further

3. Select State of Corporate/Institute: Himachal Pradesh and Type of Corporate/Institute: Educational Institute

Select Educational Institute Name: NIT Hamirpur and click on Submit

4. Select Payment category Workshop STC FDP Conference and fill the details to proceed further

Link for e-registration through Google form:

<https://forms.gle/r83fCrWWtkMYiGNi9>

E-certificates will be provided to the participants with at least 75% attendance.

Topics to be covered

- Distributed generation and MG concept
- Grid connected RESs
- Concept, structure and operation modes of MGs
- Power electronic interfaces
- Hierarchical micro grid control
- Virtual inertia based stability and regulation support
- Micro grid protection issues and solutions
- Power quality challenges in MGs
- Economic, environmental and social benefits of MG operation
- Energy efficient smart grid network

Eminent Speakers

- Prof. Arul Daniel, NIT Trichy
- Prof. B. G. Fernandez, IIT Bombay
- Prof. Trapti Jain, IIT Indore
- Prof. Animesh Sahoo, IIT Dharwad
- Prof. Venkata Kirthiga, NIT Trichy
- Prof. Nawaz Hussain, IIT Bhubaneswar
- Prof. M. A. Chaudari, VNIT, Nagpur
- Prof. Premalata Jena, IIT Roorkee
- Prof. Rabindra Mohanty, IIT Delhi
- Nilesh Thakare, Entuple Technologies



Need support? Contact us via email or phone

Eligibility

This program is open to faculty members, research scholars, PG & UG Students, and industrial personnel.



Important Dates

Last date (Online Registration): 16-04-2024

Confirmation by E-mail: 17-04-2024

Duration: 18-04-2024 to 22-04-2024

Link for e-registration through Google form:
<https://forms.gle/r83fCrWWtkMYiGNi9>

Contact Details

Dr. Chandrasekaran S

✉ chandru@nith.ac.in

☎ +91-9882299190

Dr. Supriya Jaiswal

✉ supriya@nith.ac.in

☎ +91-9665912742