



**AICTE Sponsored
under
ATAL Scheme**



**A
One Week
Faculty Development Program
on**

Smart Grid Technologies-II

15-19 December, 2020



**Coordinators
Dr. Seethalekshmi. K
Dr. Arunima Verma**

Organized by

**Department of Electrical Engineering
Institute of Engineering &
Technology Lucknow-226021 U.P.**

Background

Smart grid concept facilitates a two-way communication between source and the consumer end. It is defined as an electricity network that uses information and communication technology to gather information and act intelligently in an automated manner to improve efficiency, reliability, economics, and sustainability of generation, transmission and distribution of electricity. The major characteristics of the smart grid is its self-healing property, optimization of assets, resist attack, quality power and accommodation of all generation resources and inclusion of consumers. A special emphasis is shown in all the countries to promote smart grid for better control and coordination of the grid and in integrating various renewable sources to grid.

Course Contents

Smart Grid will act as a backbone infrastructure to enable new business models like smart city, electric vehicles, smart communities apart from more resilient and efficient energy system and tariff structures. The programme envisages to provide the basic understanding of the smart grid concepts along with an exposure to the application developments in the field of power system to address the specific needs of a smart grid. In general, the programme will address the following issues:

- Introduction to smart grid and micro grid technologies
- Basic building blocks of the smart grid
- Importance and recent challenges in smart grid technologies
- Wide area measurement, protection and storage technologies
- Self-healing applications of smart grid
- Challenges and Opportunities in Smart Grid Technologies in India

Beneficiaries

All existing faculty members working in the field of Power and Energy are primarily targeted for this faculty Development Program.

Registration Fee

No fee for participants from Industry/R&D institutions/ Faculty members/Scientists.

Applications in prescribed format must reach the convener on or before 7th December, 2020. Certificate will be given to the participants after successful completion of the FDP.

About Electrical Engg.Department



The Department of Electrical Engineering was established as one of the major departments of Institute of Engineering & Technology (IET) in the year 1984. The Department is actively engaged in teaching and research in diverse fields of Electrical Engineering. It offers BTech in Electrical Engineering, MTech program in Power Electric Drives & Control and Ph.D. program. Broad areas of expertise of the department include AI based Design and control of drives, Control and integration of Renewable Energy Sources, Wide Area Measurement and Protection and Power System Deregulation. The Department is involved in various research projects.

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Chairman, AICTE

Patron:

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Convenor

Prof Kuldeep Sahay

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A One Week FDP on

" Smart Grid Technologies-II"

(15-19 December, 2020)

REGISTRATION FORM

1. Name:
2. Designation:
3. Organization:
4. Mailing Address:
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- E-mail:
5. Faculty ID
- Mobile Number:

DateSignature of Candidate

*Applications can also be made using the copy of this registration form. Please return this form duly filled in latest by **25th June, 2020**, through Email: **electrical.fdp@ietlucknow.ac.in**

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 On
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Time /Date	06.07.2020 Monday	07.07.2020 Tuesday	08.07.2020 Wednesday	09.07.2020 Thursday	10.07.2020 Friday
10:00 am-11:30 am	Registration & Inauguration	Session-3	Session-6	Session-9	Session-12
11:30 am-12:00 Noon	<i>Tea Break</i>				
12:00 Noon-1:30pm	Session-1	Session-4	Session-7	Session-10	Session-13
1:30 pm-2:30pm	<i>Lunch Break</i>				
02:30pm-04:00pm	Session-2	Session-5	Session-8	Session-11	Session-14
4:00 pm-4:30pm	<i>Tea Break</i>				Valedictory