



One Week Online

## Faculty Development Program

On

# Integration of Renewable Energy and Smart Grids for Smart Cities

7<sup>th</sup> - 12<sup>th</sup> MARCH, 2022



ORGANIZED BY



### Electrical Engineering Department

Bansal Institute of Engineering and Technology, Lucknow, U.P., India  
Affiliated to A.P.J. Abdul Kalam Technical University, Lucknow & Approved by AICTE, MHRD, INDIA

## ABOUT THE BIET

BIET is managed by Bansal Educational Trust founded in the year 2007 and registered under the Societies Registration Act of 1860 with an aim of providing quality technical education. The Institute is attempting to create benchmarks by incorporating new initiatives in the field of education through its learning methodologies and aiming to provide the students with realistic knowledge. The institute has highly qualified and experienced faculty and excellent infrastructural facilities.

## ABOUT THE ELECTRICAL ENGINEERING

The Department of Electrical Engineering at BIET established in 2008 with a team of highly experienced faculty members. The department with well structured labs and dedicated faculty members provides descriptive knowledge from the basics to the industrial aspects of the discipline. The aim off the department is to impart quality technical education, to provide industry ready engineers and to create center of excellence in the field of Electrical Engineering through collaboration with industries.

## ABOUT THE FDP

This FDP aims to provide a platform for the academicians, engineers, and researchers to learn present technologies in the areas of renewable energy, solar power systems, wind energy, the integration of distributed generation, smart grids and energy storage to form the model of a smart grid to ensure high-efficiency and high-performance operation in smart cities. This FDP creates the opportunity to put together the speakers from these areas to disseminate their knowledge and experience for the listeners to work in years to come, which will also be useful for the development of the country. In this FDP, the ideas on operation of centralized and decentralized control, forecasting, and evaluation of different market policies involved in Smart Cities may also be highlighted through case study.

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Hon'ble Vice Chancellor, Dr. APJAKTU

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Assistant Professor, EED, BIET

## TECHNICAL SPONSOR



## RESOURCE PERSON

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### **Dr. Venkatesh Pampana**

Research Associate  
Fortiss, Germany

## CHIEF GUEST

### **Prof. S. N. Singh**

EED, IIT Kanpur, U.P., India  
(IEEE Fellow, Past Chairman IEEE India Council)

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### **Prof. Shiv Pujan Singh**

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### **Prof. Subodh Wariya**

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## KEY TOPICS

- Importance and Recent Challenges in Renewable Energy Sources
- Solar Photovoltaic cells and solar power system, wind energy and other renewable
- Grid Integration, Renewable energy sources and storage
- Small Hydro Power Plants: A Prospective Renewable Energy Resource
- Long-term Forecasting of Renewable Energy Resources
- Grid Technologies in India
- Smart Grid Technologies and its Applications
- Control of Electrical Motors for Electric Vehicles Applications
- Integration of Renewable Energy Resources in GIFT City (Gujarat)

## WHO CAN ATTEND?

All Faculty members from Institutions/Universities, Research Scholar (Ph.D only) and Industry Personals

## REGISTRATION

**No Registration Fee** is applicable to attend the FDP.

FDP will be organized in online mode on Zoom platform.

Participants need to fill online registration form.

Registration Link for FDP:

<https://forms.gle/arGn6krux29u1J84A>

### **FDP Platform:**

**For each Session Zoom Link to join the FDP will be shared through the mail or whatsapp group**



### **Address for Communication:**

The Co-ordinator  
FDP on Integration of Renewable Energy  
and Smart Grids for Smart Cities

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