

## CHIEF PATRON

Prof. Bhagwati Prakash Sharma  
Hon'ble Vice Chancellor

## PATRONS

Prof. Shweta Anand, Dean Academics  
Dr. Indu Uprety, Dean SoE  
Prof. N. P. Melkania, Dean SoVAS  
Prof. Anuradha Mishra, SoVAS  
Sh. Bachchu Singh, (PCS) Registrar

## FDP CHAIRS

Dr. Shabana Urooj, HoD, EED, SoE  
Dr. Bhawana Joshi, HoD App. Physics, SoVAS

## FDP CONVENERS

Dr. Omveer Singh, Deptt EE, SoE  
Dr. Manmohan Shishodia, Deptt of Physics, SoVAS

## EXPECTED RESOURCE PERSONS

Dr. S. Akhtar, MNRE	Prof. Bhim Singh, IITD
Prof. G. N. Tiwari, IITD	Prof. T. S. Bhatti, IITD
Prof. H. K. Verma, IITR	Prof. Ibraheem, JMI
Dr. C. Benerjee, NISE	Prof. Ashish Kumar, NITA
Prof Mukhtiyar singh DTU	Dr. P. Tiwari, MMMUT
Dr. Y. K. Chauhan, KNIT	Dr. V. K. Yadav, DTU
Dr. Arunesh Singh, JMI	Mr. A. Sood, ETAP
Er. R. Sengupta, CEO, Boond	Mr. A. Siddique, HIL Typhoon

## ORGANISING COMMITTEE

Dr. H. C. Thakur	Dr. Nirmita Mehrotra
Dr. Shobha Ram	Dr. M. A. Ansari
Dr. Nidhi Singh Pal	Dr. C. B. Vishwakarma
Dr. Dharamvir Mangal	Dr. Satpal Sharrna
Ms. Madhuri Agarwal	Ar. Anant Pratap Singh
Dr. Vivek Kumar Shukla	Dr. A. K. Keshari
Dr. Mausumi Pohit	Dr. Amit Ujlayan
Dr. Krishan Tyagi	Mr. Gaya Prasad
Mr. M. Z. Haider	Mr. Abdul Azeem
Ms. Ferha Siddique	Mr. Devi Singh

## OBJECTIVES

The aim of this Faculty Development Programme (FDP) is to provide exposure to faculty members, practicing engineers, and students to the concepts of Future Technologies of Renewable Energy & Smart Micro-grids (FTRESM). This course begins with an overview of renewable energy sources, their futuristic technologies and smart micro-grids schemes.

The geographical map of India provides us tremendous potential to tap the wind energy available along the long coast line and solar energy is almost uniformly available in most of the parts of the northern India. The initiatives taken by the Ministry of New and Renewable Energy (MNRE) to achieve the target of solar energy might be 100 GW and wind energy is 60 GW out of 175 GW from renewable energy by 2022, which provides a huge opportunity to all the stakeholders working in this area.

## ABOUT THE UNIVERSITY

Gautam Buddha University (GBU), established by Uttar Pradesh government in 511 acres lush green campus at Greater Noida encourages multidimensional growth through its education, training and research. The University envisions becoming a world class centre for excellence in education and research. The academic programmes, designed in line with the best universities around the world, combine the best practices of pedagogy and class room teaching, complemented by practical training and experiential learning. In order to promote value-based education, research and training, the University has established eight schools. School of Engineering offers graduate, post graduate and doctoral level studies of the branches of Engineering including interdisciplinary domains.

School of Vocational Studies and Applied Sciences started various programmes in 2012 such as M.Sc. Applied chemistry, Applied Mathematics, Applied Physics, Environmental Science and Food Science, B.Tech and M.Tech in 5 year integrated programme in Food Processing and Technology.

## Gautam Buddha University Greater Noida



### One Week Faculty Development Programme on Future Technologies of Renewable Energy & Smart Micro-grids (FDP-FTRESM'19)

13<sup>th</sup> -17<sup>th</sup> March, 2019

Technically sponsored by IEEE GBU Branch



Organized by

School of Engineering  
School of Voc. Studies and Applied Sciences  
Gautam Buddha University, Greater Noida,  
Uttar Pradesh – 201312 (India)

[www.gbu.ac.in](http://www.gbu.ac.in)

## PROGRAMME HIGHLIGHTS

- Overview of renewable energy sources
- Solar photovoltaic technology
- Wind energy systems
- Other renewable energy technologies
- Solar cells, solar modules, design and installation of solar photovoltaic systems, Wind power plants etc.
- Design and development of MPPT controllers for solar photovoltaic and wind systems
- Energy storage systems, MPPT algorithms etc.
- Converter topologies for solar photovoltaic and wind systems
- Micro-grid components, energy storage modeling
- Modeling hybrid renewable energy system and power management strategies in micro-grids
- Demo on Micro-grid Setup, ETAP, Typhoon HIL Real Simulator, MATLAB software, etc.

## RESOURCE PERSONS

Eminent academicians and researchers from premier institutions like IIT, NIT, Renowned Institutes, R&D organizations, Industries and GBU faculties.

## TARGET AUDIENCE

The FDP “Future Technologies of Renewable Energy & Smart Micro-grids” is planned to impart one week for the academician, scientist, research scholars, students of Engineering Institution / University / R&D laboratories who are working in the field engineering and sciences.

## REGISTRATION FEE DETAILS

Category of Participants	Participants
Industry	₹ 3500
Faculty, Staff, Research Scholar	₹ 3000
GBU Faculty, Staff, Research Scholar	₹ 2500
Students	₹ 1000
Participants from outside Country	\$ 100

### \*Accommodation:-

Two Seater Room:	₹ 60 per day
Single Seater Room:	₹ 120 per day
Guest House:	₹ 500 per day

Registration will be done on first come first served basis. As the number of seats is limited to 40, early registration is recommended. The registration fee should be paid in the form of Demand Draft drawn in favour of “Gautam Buddha University” payable at Delhi or Cash directly pay to Account Office, GBU or *Online transaction slip* to be sent along with the registration form.

### Online transaction (NEFT) Details:

**Person Name:** GBU

**Bank:** Punjab National Bank, GBU, Greater Noida

**Account No.:** 6660000100000025

**IFSC Code:** PUNB0666000

**.Note:** Please write your name and contact details at the back side of Demand Draft/Payment Slip/Online Transaction Slip.

## LOCATION

University is situated on Yamuna Expressway, Greater Noida in the National Capital Region of New Delhi, India and is very well connected through World Class Roads from New Delhi Airport, Railway Stations and Inter State Bus Terminals by less than an hour's drive.

## IMPORTANT DATES

**Last date of Registration with Fees** : 08/03/2019

**Intimation of Confirmation** : 09/03/2019

## ADDRESS FOR COMMUNICATION

*Dr. Omveer Singh & Manmohan Shishodia  
Department of Electrical Engineering  
School of Engineering*

*Gautam Buddha University, Yamuna Expressway,  
Greater Noida, Gautam Budh Nagar (UP),  
India 201312*

**Phone Nos.:** +91 120 2346044

**Mobile Nos.:** +91-8199978958/9560512424

**Email:** [ftfrfdp@gmail.com](mailto:ftfrfdp@gmail.com)/[omveer.singh@gbu.ac.in](mailto:omveer.singh@gbu.ac.in)

**For more details:** <http://www.gbu.co.in>

## REGISTRATION FORM

### One Week Faculty Development Programme on Future Technologies of Renewable Energy & Smart Micro-grids

13<sup>th</sup> – 17<sup>th</sup> March, 2019

Full Name: \_\_\_\_\_

Designation \_\_\_\_\_

Organization \_\_\_\_\_

Official Address: \_\_\_\_\_

Educational Qualification and Specialization: \_\_\_\_\_

Address for Correspondence: \_\_\_\_\_

Pin Code: \_\_\_\_\_ Phone/Mobile Number: \_\_\_\_\_

Email: \_\_\_\_\_

### DETAILS OF REGISTRATION FEE:

Name of Bank and Branch: \_\_\_\_\_

Cash receipt/Online Transaction/DD No.: \_\_\_\_\_

Dated: \_\_\_\_\_ For Rs. \_\_\_\_\_

Accommodation Required: Yes/No \_\_\_\_\_

**Date:** \_\_\_\_\_ **Signature of Participant**

Email registration form & fee transaction details to [ftfrfdp@gmail.com](mailto:ftfrfdp@gmail.com) or post to Convener (FTRESM-19), Department of Electrical Engineering, School of Engineering, Gautam Buddha University, Yamuna Expressway, Greater Noida, Gautam Budh Nagar, Uttar Pradesh (India) – 201312.