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Participation:

The participants from AICTE approved institutions, R & D organizations; Industries and Utilities duly sponsored/affiliated by concerned authority are eligible to attend the course. As there is limited number of seats the participation is based on first – come – first serve basis.

Registration Fees:

Rs. 3000/- for faculty members of academic institutions,

Rs. 2000/- for Research Scholars,

Rs. 1000/- for students,

Rs. 5,000/- for persons from Industry and R&D Organizations.

The registration fee may directly be deposited in the account of **Birla Institute of Technology A/C No. 062905000508, IFSC: ICIC0000629** of **ICICI Bank, Tower Chowk, Deoghar Branch, Deoghar-814112, Jharkhand**. Scanned copy of completely filled Registration Form along with Online Payment Receipt should be sent to ***bitdeoghar.eee@gmail.com*** on or before 09/03/17. The selection of the candidate will be confirmed through e-mail by 10/03/17.

Hospitality:

The registrations fee includes breakfast, working lunch and dinner.

For outstation participants suitable accommodation on twin sharing basis may be made available free of cost if requested in advance.

Short - Term Course

on

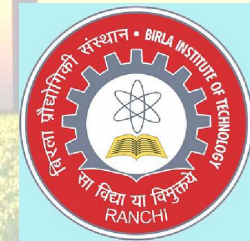
INTEGRATION OF SUSTAINABLE ENERGY SOURCES AND SMART GRID

March 20-24, 2017

Department of Electrical & Electronics Engineering

Birla Institute of Technology Mesra

Off – Campus Deoghar



Co-ordinator

Pankaj Mishra

Department of Electrical & Electronics Engineering
Birla Institute of Technology, Mesra
Off – Campus Deoghar
Deoghar -814142, Jharkhand

Introduction:

Increasing dependency on electric energy, limited fossil fuels and issues of climate change necessitate a substantial use of renewable sources, which being climate friendly and sustainable, proves to be a viable future energy option. Prerequisite of an intelligent power system, which has better potential to integrate renewable energy sources with grid, has been a significant research interest for power system community. However, due to the intermittent availability of renewable energy, there are a number of potential challenges in integrating it with the existing grid. Power scheduling, power sharing among sources, voltage regulation, frequency regulation, conversion (ac – to – dc, dc – to – ac), power quality and stable operation of the grid are the issues to consider for developing a smart power system. Inclusion of metering, communication, and monitoring of system parameters to address the operational and stability issues will be leap towards intelligent power system.

About BIT Deoghar:

BIT Deoghar is an off—campus center of BIT Mesra, Ranchi. A MoU was signed between the Institute and the Government of Jharkhand to establish the Deoghar off—campus Centre of BIT, commenced functioning since October 2007.

About the Dept. of EEE:

The department of Electrical & Electronics Engineering at BIT, off campus Deoghar offers a vibrant environment for under-graduate education. The department is committed towards advancement of the frontiers of knowledge in Electrical & Electronics Engineering and to provide the students with a stimulating and rewarding learning experience.

How to reach Deoghar :

BIT, Mesra off – campus Deoghar is located near Jasidih railway station in Deoghar district. Deoghar is famous for the most revered of all Jyotirlingams, the Baidyanath (Shiva) Jyotirlingam temple also known as the Kamnaligam Temple. Located in north – eastern Jharkhand. Jasidih railway station is on the main line of the Eastern Railway from Howrah to Delhi via Patna. Other nearby railway stations are Dhanbad and Assansol. The nearest Domestic Airport is LNJ Airport, Patna, located at a distance of 272 KMs. BM Airport, Ranchi, located at 270 KMs and NSB Airport Dum Dum, Kolkata located at 300 KMs from Deoghar

Objective:

The aim of this course is to expose faculty members, practicing engineers and students to the concepts of intelligent power system and latest trends in power system. The course begins with an overview of renewable energy and technicality of power system operation. Potential challenges of integrating renewable energy with the smart grid, including the possible operational issues, will be the focused area during the course. Power electronic converters for grid integration applications, power quality issues, various control aspects, metering are some topics which will be discussed cover in the course.

Topics:

- Recent Trends in Power System;
- Role of Renewable Energy Sources in Smart Grid and Micro-Grid;
- Mathematical Modeling of complete wind system including DFIG and associated controllers;
- Mathematical Modeling of SPV system with associated controllers;
- Role of Power Electronics for integration of Renewable Energy;
- Hardwire implementation for MPPT and Grid Synchronization System ;
- Power Quality Issues with Renewable Integration.
- Role of Phasor Measurement Unit (PMU) in Power System Operation.

Resource Persons:

Experienced faculty members from reputed institutes like IITs, NITs, BIT Mesra, Central Universities, Jadhavpur University and experts from Industries are likely to deliver lectures.

Address of correspondence:

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Registration Form

One Week Short – Term Course

on

INTEGRATION OF SUSTAINABLE ENERGY SOURCES AND SMART GRID

March 20-24, 2017

BIT MESRA, OFF – CAMPUS DEOGHAR

Name: _____

Designation: _____

Qualification: _____

Organization: _____

Gender (for accommodation): M F

Accommodation required: Yes No

Correspondence Address: _____

PIN: _____

Phone: _____ Fax: _____

E-mail: _____

Category

- Academic Institution Utility
 Industry R&D organization

Transaction. ID/ Ref..No: _____

Date: _____ Bank: _____

(Signature of Participant)

Forwarded by,

(Head of the Institution/Department)

Signature with seal