

**Registration Form
NATIONAL SEMINAR ON
GRID MANAGEMENT
(30.01.2014 to 01.02.2014)**

1. Name (Block Letters):
2. Designation:
3. Organization:
4. Address for communication:

Pin code:

Ph. No.:

Fax No.:

E-mail:

5. Sex: M/F

6. Date of Birth:

7. Highest Academic Qualification:

8. Specialization:

9. Food Preference (Veg/Non-Veg):

This is to certify that the above information furnished by me is correct to the best of my knowledge and belief.

Date:

Signature of the applicant

Head of the institution/Organization with Seal

For details, visit institute website www.cet.edu.in

Contact:

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Organizing Secretary

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**National Seminar
on**

"GRID MANAGEMENT"

**30th January to 1st
February, 2014**



**Organized by
DEPARTMENT OF
ELECTRICAL ENGINEERING
College of Engineering and
Technology**

(Under TEQIP-II)

*A constituent college of
Biju Patnaik University of Technology*

Techno Campus, Ghatikia,

Bhubaneswar-751003

www.cet.edu.in

About the Venue

The Department of Electrical Engineering of College of Engineering and Technology, Bhubaneswar was started in the year 1982. The department focuses on utilizing its unbound resources to craft creative solutions to real world problem.

The faculty members participate in Govt. sponsored project work in the field of Electrical Engg. The dept. of electrical engg is striving hard to impact quality teaching so as to make the students confident enough in shouldering their duties and responsibilities as power engineer in binding the nation.

About the National Seminar

The Power System is very Large Structure consisting of generation plants, Overhead Transmission Lines, Substations, Underground Cables and regional Control centers. These are becoming stressed by integration of intermittent renewable energy resources and significant adoption of distributed energy resources. The complexity of the grid is growing rapidly as multidimensional constraints relating to technical business and societal goals need to be imposed dynamically for which power grid were not originally designed. Stability could collapse because of new dynamics introduced to the grid and because the extreme complexity makes traditional control analysis intractable, so that grid behavior is more unpredictable. To ensure grid stability and have the agility to remain reliable under highly dynamic destabilizing conditions requires that grid control system also evolve in ways that address these new changes and the resultant operational problems.

Meanwhile, the NEW Grid (Northern-East-West) has been connected to Southern Grid in synchronous mode. It is expected that by the end of the 12th Plan the HVDC capacity will almost triple from 11200 MW to 30,550 MW and the inter-regional transfer capacity is slated to increase to 64000 MW. In this backdrop the National Grid failure in July, 2012 has increased the importance of grid management. CERC has also tightened the frequency band to 49.7 to 50.2 Hz in March, 2012.

Considerable progress is being made in the grid control research community in terms of progression from traditional grid control configurations to advanced control architectures that provide the structure to handle multi-objective, multi-constraint grid control problems in a framework that can support coordinated control across utility organizational boundaries and, potentially, consumer premises.

The seminar will deliberate on all these issues and more.

Sub-themes for Seminar

- ✓ Quality and Economic Power Availability strategies for Indian utilities – Opening talk
- ✓ Distributed generation, renewable energies and issues in grid connectivity with RE generation
- ✓ WAMS, Smart Grid including automated metering infrastructure
- ✓ Power quality management and energy management and reliability
- ✓ System protection
- ✓ Role of power electronics and FACTS Devices and Congestion management
- ✓ Latest Development in HVDC Transmission
- ✓ Policy and Regulatory framework for grid operation including SAARC grid
- ✓ Power Trading and Management
- ✓ Black start and Restoration

Resource Persons

Faculties from reputed institutes like IITs, NITs and well known Industrial professionals will deliver lectures in this program.

Facilities

No registration fee will be charged for the students, faculties of College of Engineering and Technology and outside MTech. or Phd. Scholars. A registration fees of rupees 600/- in the form of DD to be made by Outside faculty members and industrial participants, in favour of "Principal CET" payable at Bhubaneswar. Arrangements for working lunch/tea and snacks will be made by the institute during the program. There is no provision for TA/DA/ accommodation for the participants. Certificates will be provided only to those participants, who attend the programme for the whole duration.

How to Reach

The College is located in the Techno-campus at Ghatikia, Kalinga Nagar, Bhubaneswar, Odisha. It is located at about 2.0 km. away from Khandagiri square and 3 km from Baramunda Bus Stand.

Important Dates

Last date of receiving applications	January 25 th , 2014
List of shortlisted participants on website	January 27 th , 2014

