

**One Week
Faculty Development Program**

On
“Advances in Power Electronics and Drives”
12th May to 17th May, 2014

Sponsored by
Technical Education Quality Improvement
Programme (TEQIP Phase-II)

REGISTRATION FORM

Name: Prof/Dr/Mr/Ms _____

Designation: _____

OrganizationAddress: _____

Tel : _____; Fax : _____

Address for communication:

Mobile: _____

E-mail: _____

Registration Fee: Rs. _____

D.D.No. _____; Dated: _____

Drawee Bank: _____

Date: _____

Place: _____

Signature

(Photocopies of registration form are acceptable)

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Vice Chancellor
Osmania University

PATRON
Prof. V.S.S.Kumar
Principal
University College of Engineering, OU

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Organized by
Department of Electrical Engineering
University College of Engineering (A)
Osmania University
Hyderabad, Andhra Pradesh-500 007
Ph: 040-27098628

About the Electrical Engineering Department:

The department started in 1949 to offer B.E in Electrical Engineering. The Post-graduate course in Electrical Machines was started in 1966. With a view to provide diversity and industrial orientation to the Post Graduate program, the department is offering M.E. courses in Industrial Drives & Control and Power Systems from 1971 and a new PG program in Power Electronic Systems from 2008. Department also offers part time PG courses in Industrial Drives & Control and Power Systems for the working academicians and engineers. The Full-Time and Part-Time Ph.D. programs are being offered in the department.

The department has 23 faculty members who are highly experienced and actively involved in various research activities. The department is also equipped with state-of-art equipment and well qualified technical staff. The First National Power System Conference was conducted by this department for the first time in 1981 and also the 16th National Power System Conference was organized in 2010. The department also celebrated its Diamond Jubilee in year 2009-10. The department is accredited by NBA for 5 years from year 2013 for BE program.

Introduction:

This one week Faculty Development Program aims at exposing the faculty members and participants to various recent developments in the power electronics & drives and its applications in Electrical Engineering. It provides an in-depth design and analysis of models and demonstrates their applications in real world problems.

In all power applications such as speed control of motors, reactive power control, active filters etc., power electronics modulators are used for an efficient control. These power controllers are being controlled by advanced control techniques. Earlier conventional analog and digital controllers were used in such applications but it was not possible or difficult to implement advance control techniques. The future technology development effort will need to focus on miniaturization, integration, efficient high current and voltage devices, and very low turn on and turn off time with minimal switching losses, very low gate power consumption, communication, reliability, durability and more software with reduced parts, packaging and finally low cost. Hence, this TEQIP Sponsored faculty development program aims to foster discussion on recent advances on power electronics and its applications.

Course Contents:

- ❖ Overview of Power Electronic Controllers
- ❖ SVPWM and advanced PWM techniques, DTC
- ❖ Multilevel Inverters
- ❖ Grid integrated Power Converters
- ❖ Power electronics applications to power system and power quality
- ❖ Analysis of Inverters and motor control
- ❖ Converter topologies for stand alone and grid connected solar PVs
- ❖ Design and analysis of AC drives

Resource Persons:

- ❖ Faculty from IITs, NITs, OU and many other reputed institutions.

- ❖ Scientists and leading professionals from BHEL (R&D), GE, INFOTECH / Industries from all over the country.

Eligibility:

The FDP is open to faculty, research scholars, P.G. students from the institutions recognized/approved by AICTE, engineers from industry and other organizations.

Fee Particulars:

M.Tech./M.E. and Ph.D. Scholars	Rs.2500/-
Teachers from Academic Institutes	Rs.3000/-
Engineers from Industry	Rs.4000/-

D.D. should be paid in the favour of "The Head, Electrical Engineering Department, University College of Engineering, Osmania University, Hyderabad, A.P". Filled-in application forms may also be sent by e-mail with the scanned copy of DD to satish_8020@yahoo.co.in. Original DD should be submitted at the time of registration.

The participants are requested to make their own arrangements for accommodation and transport.

Important Dates:

Last Date for
Receipt of applications: 08th May, 2014
Intimation to
Selected Candidates: 09th May, 2014

Contact Person:

Dr. P. Satish Kumar

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E-mail: satish_8020@yahoo.co.in