

About The Program

For economic reasons most if not all of the worlds electric power supply are widely interconnected, involving interconnections inside utilities own territories which extend to inter-utility interconnections and then to inter-regionals. The research has put forward a concept, a vision of the future based on silicon science, called flexible AC transmission system (FACTS). Flexible ac Transmission Systems (FACTS) devices are used to control power flow in the transmission grid to relieve congestion and limit loop flows. High cost and reliability concerns have limited the widespread deployment of FACTS solutions. Concepts relating to flexible AC transmission systems (FACTS) are gaining popularity for enhancing the power transfer limits as well as the stability characteristics of power systems. While some of the relevant technology i.e., static VAR compensation is already in wide use, the FACTS concept has brought to the table a tremendous potential for thyristor based controllers which will surely revolutionize the power system.

The course is intended to cover all the traditional as well as advanced FACTS devices and their control, including modelling and simulations.

ABOUT THE INSTITUTE

The Bardoli Pradesh Kelavani Mandal (BPKM) is an education trust established in 1960 with the aim of imparting of higher education opportunities in and around the rural area. BPKM has started a self-financed engineering college named as Chhotubhai Gopalbhai Patel Institute of Technology (CGPIT) under the roof of Uka Tarsadia University (UTU) in the year 2009 with the view of educating and training future professionals to lead in today's competitive environment and to meet the needs of globalization and industrialism by

providing dynamic and conducive learning environment. CGPIT offers B. Tech programs in eight various disciplines. CGPIT also offers M. Tech. programs in disciplines like Power System, Electronics & Communication, Civil, Computer, and Mechanical Engineering. Ph.D. programmes are also carried out by CGPIT in the disciplines like Electronics & Communication, Civil, Computer, and Mechanical Engineering.

ABOUT THE DEPARTMENT

The department is one of the pioneering departments of the Institute. Over the years, the department has progressed at a rapid pace with development in both the spheres of infrastructure facilities and academic programmes. The department has highly qualified faculty members engaged in teaching and research with the aim of achieving excellence in the field of Electrical Engineering. The department offers Under Graduate course in Electrical Engineering and Post Graduate programmes in Power System.

Chief Patrons

Mr. Shailesh Patel, President UTU
Dr. D. R. Shah, Provost & CEO UTU

Patrons: Dr. N. C. Shah, Director CGPIT,
Prof. Rakesh S. Gajre, H.O.D. of E.C &
Electrical Dept.

Conveners: Mr. Ankur Rana & Mr. Darshan
Vora

Organizing Committee:

~~Prof. H. M. Dhandha,~~
~~Mr. Chinmay Naik,~~
~~Mr. Hardik Pandya &~~
~~Mr. Jay Patel~~

ONE WEEK SHORT TERM COURSE

ON

Applications of Power Electronics in Power Systems

15th Dec – 19th Dec, 2014

Sponsored by

Uka Tarsadia University, Maliba Campus,
Gopal Vidhyanagar, Bardoli, Surat



Course Coordinators
Prof. Ankur V. Rana
Prof. Darshan R. Vora
Organized Jointly By



DEPARTMENT OF ELECTRICAL ENGINEERING
CHHOTUBHAI GOPALBHAI PATEL INSTITUTE
OF TECHNOLOGY

Uka Tarsadia University
Bardoli-Mahuva Road, Dist-Tarsadi
Surat-394350

&

Indian Society for Technical Education



Registration and General Information

Applications for the participation in the 'course' should reach in the attached format via regular mail at the following address:

Prof. Ankur V. Rana

Prof. Darshan R. Vora

Organizing committee (APEPS),

Electrical Engineering Department, C. G. Patel

Institute of Technology, UTU, Bardoli, Surat,

Gujarat,

India, 394340.

The last date of reaching applications is 30th November, 2014. The candidates would be informed of their selection through E-mail by **5th December, 2014.**

The breakfast, working lunch will be provided to the participants. Limited seats are available in this course. The participants would not be paid TA and DA.

Accommodation

Suitably furnished accommodation will be made available, if requested in advance, in the hostels/guest houses of the CGPIT on nominal payment basis for out stationed candidates on twin sharing basis.

Address for Communications:

Prof. Ankur V. Rana,

Prof. Darshan R. Vora

Organizing committee (APEPS)

Electrical Engineering Department, C. G. Patel,

Institute of Technology, UTU, Bardoli, Surat,

Gujarat

India, 394340.

Mo: +91 8866785421 & +91 9898814170

E-mail :

Ankur.rana@utu.ac.in

Darshan.vora@utu.ac.in

Course Content

1. Challenges faced by Power Sector
2. High Voltage Direct Current Transmission System
3. Flexible AC Transmission Systems
4. Custom Power Devices
5. Power Electronics Converter with The Grid Integration of Renewable
6. Power Quality
7. Simulation and modelling of various FACTS devices
8. Simulation and modelling of various control schemes related to FACTS devices
9. Power Filtering

Who can apply

- Faculty members and industrial person.
- Research Scholars and Engineering students.

Speakers

Faculty members from NITs, various respective institution and Industries

Course fee

Students/ Research scholars Rs. 1000/-

Institute/ College Teachers Rs. 1200/-

Delegates from industries Rs. 1500/-

The D.D. drawn in favor of "Director, CGPIT Surat" payable at 'Surat' should be sent along with the completely filled application forms.

Application Form

ONE WEEK SHORT TERM COURSE ON Application of Power Electronics in Power Systems

15th Dec - 19th Dec, 2014

Name and Address of the applicant:

Gender: M/F___ DOB:_____ Age:_____

Qualification:_____

Experience:_____

Designation:_____

Mobile:_____

Email:_____

Accommodation required? Yes/No:_____

Address of Sponsoring Authority:

PAYMENT DETAIL:

DD No._____ Date_____

Rs. _____ Bank Name:_____

Signature of the Applicant

The applicant will be permitted to participate in the above program if selected. Further, I have personally talked with the applicant and the applicant seemed to be sure to attend the course, if selected.

Signature of Head of the Institution with Seal