

## Organizing Committee:

Prof Y.R.PRAJAPATI-Coordinator  
Assistant Professor  
Prof G K Sharma- Coordinator  
Assistant Professor  
Prof J C Baria- Co-Coordinator  
Assistant Professor  
Prof S V Arya- Co-Coordinator  
Assistant Professor

## General Guidelines for Participants:

### Registration Fees

1. Rs 700=00 (PG Students)
2. Rs. 1250=00 (Faculty members from academic Institutes)
3. Rs. 2700=00 (Persons from Industry/ Professional Agency)
4. Rs. 150=00 (ISTE fees at the time of registration.)

### Mode of Payment:

Demand draft drawn in favour of Principal, BVM payable at HDFC Bank, Vallabh Vidyanagar should be sent to the coordinator before 25<sup>th</sup> May, 2012.

ISTE fees in cash at the time of registration.

Accommodation will be provided against request to outstation participants.

No TA/DA will be paid.

Faculty members of academic institutions and person from industries, students of M.E. / M.Tech & Ph. D, research scholars can participate in this STTP.

### Last Date for Application:

15<sup>th</sup> JUNE, 2011.

### Confirmation of participation:

16<sup>th</sup> JUNE , 2011. (By Email)

### Address for correspondence:

Coordinator / Co-coordinator STTP,  
Electrical Engineering Department  
Birla Vishvakarma Mahavidyalaya  
(Engineering College)  
Vallabh Vidyanagar-388120  
Gujarat, INDIA

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Govt. of Gujarat



Anchor Institute for Infrastructure Sector  
(Promoted by Industries Commissionerate,  
Govt. of Guj.)  
Faculty of Planning & Public Policy,  
CEPT UNIVERSITY, Ahmedabad



ISTE Gujarat Approved

Short Term Training Program on

**MODERN TRENDS IN POWER SYSTEMS  
& POWER ELECTRONICS  
FOR INFRASTRUCTURE DEVELOPMENT**

25<sup>th</sup> –29<sup>th</sup>, JUNE 2012

**Head of Department**

Prof (Dr) B. R. Parekh

**Co-ordinators**

Prof Y.R.PRAJAPATI

Prof G K SHARMA



BVM

**Organized by**

Birla Vishvakarma Mahavidyalaya  
Vallabh Vidyanagar – 388 120  
(Nodal Institute for Training Programs on  
Infrastructure Sector)

## About B V M

BVM, the first degree engineering college of Gujarat State was established by Charutar Vidya Mandal in 1948 with the blessings of Sardar Vallabhbhai Patel. The founder Principal of this college was Prin. S B Junnarkar. The college has ranked amongst the top positions in GTU Examinations and other competitive examinations and placement. Alumni of BVM are well placed and are contributing to the technical field nationally and internationally. BVM Alumni has successfully completed 43 years of its existence and is continuously in an acceleration mode of progress under the constant encouragement and able guidance of our beloved President Dr. C. L. Patel.

### Electrical Engineering Department

The department of Electrical Engineering is one of the important pillars of the institute and has produced 3600 world class electrical engineers. The department is currently offering programs of B.E. (Electrical) and M.E. (Electrical Power Systems). The department has well qualified and experienced faculty members and supporting staff. Department is having well equipped Power Electronics, Electrical Machine, High Voltage, Instrumentation, Power System Protection and other laboratories.

### CEPT

Centre for Environmental Planning & Technology is an premier university offering UG & PG programmes in the areas of natural and developed environment of human society and related disciplines. The Industries Commissionerate, Government of Gujarat, Gandhinagar has selected CEPT as an Anchor Institute to implement the project of 'Skill Development for Infrastructure Sector'. BVM has been selected as a Nodal Centre for implementing this project to impart training and expertise to the faculty members of technical institutions and engineers from industries and allied industries.

## About CVM

Charutar Vidya Mandal, established in 1945 manages 45 institutions including BVM and three degree engineering colleges. Eminent personality like Dr. H. M. Patel (Ex. Finance Minister, GOI) was the chairman for more than 3 decades. From the year 1994 Dr. C. L. Patel took over initiatives of aligning and integrating education with the emerging world of globalization and liberalization making educational pursuits more relevant, purposeful and meaningful.

### INTRODUCTION

Due to increased interconnection and loading of the network, power utilities are facing challenges in their optimal, secure and economic operation. They need fast computational tool based on simple and robust methods to tackle any eventuality in the power system. India has already taken the first step in the direction of restructuring in the area of generation, transmission and distribution.

The main objective of this course is to enhance the knowledge of the participants in the modern trends of power system and power electronics including of power system operation, stability studies, security analysis, optimal power flow, contingency analysis, FACTS technology, HVDC transmission systems, application of Artificial Intelligence to power systems.

### SCOPE OF THE COURSE

In this 5 days Short Term Training Programme, the experts from industries and technical institutions will discuss the recent trends in power systems and power electronics scenario in the country. It introduces fundamentals of power system operation, stability studies, security analysis, optimal power flow, contingency analysis, FACTS technology, HVDC transmission systems, application of Artificial Intelligence to power systems, renewable-non renewable energy sources, Engineering Mathematics and software(MATLAB,PSIM,PSCAD,ETAP etc...) based sessions. The programme will consist of effective theory and practical sessions with an aim to give realistic exposure.

## REGISTRATION FORM

ISTE approved Short Term Training Program

*on*

**MODERN TRENDS IN POWER SYSTEMS  
& POWER ELECTRONICS  
FOR INFRASTRUCTURE DEVELOPMENT**

25<sup>th</sup> –29<sup>th</sup>, JUNE 2012

1. Name(Mr./Ms./Dr): \_\_\_\_\_
2. Designation: \_\_\_\_\_
3. Qualification: \_\_\_\_\_
4. Name of the Institute/Industry: \_\_\_\_\_  
\_\_\_\_\_
6. Contact Address: (with phone no., fax ): \_\_\_\_\_  
\_\_\_\_\_ E-mail : \_\_\_\_\_
7. ISTE Membership No., if any: \_\_\_\_\_
8. DD Details\*: Amount: \_\_\_\_\_ No: \_\_\_\_\_  
Name of Bank: \_\_\_\_\_ Dated: \_\_\_\_\_

\* in favour of "Principal, BVM Engineering College  
Vallabh Vidyanagar" payable at Vallabh Vidyanagar.

Date:

Signature of Applicant

Signature of sponsoring authority, with seal  
(Photo copy of this form is acceptable)