



# POORNIMA

## COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

### A Report on two week Short Term Training Program

- ♦ **TITLE AND DURATION:** “Electric Power System” from 10-23 July 2017.
- ♦ **SUPPORTERS:** National mission on Education through ICT (NMEICT)
- ♦ **ORGANIZERS:** Electrical Engineering Department, Poornima College of Engineering, Jaipur.
- ♦ **BROCHURE / POSTER / LEAFLET / FLYER:**

**POORNIMA**  
COLLEGE OF ENGINEERING  
Department of Electrical Engineering  
Approved by AICTE, New Delhi & Affiliated to RTU, Kota (Raj.)

**TWO WEEK ISTE STTP ON ELECTRIC POWER SYSTEM**  
Under the National Mission on Education through ICT  
(MHRD, Govt. of India)  
July 10-15, 2017

Conducted by IIT Kharagpur  
[www.nmeict.iitkgp.ernet.in](http://www.nmeict.iitkgp.ernet.in)

At Remote Center **Poornima College of Engineering (1107)**  
ISI-6, RIICO Institutional Area, Sitapura, Jaipur 302022 (Raj.) • Telefax : +91-141-2770790, 91, 92  
E-mail : [info@poornima.org](mailto:info@poornima.org) • Website : [www.pce.poornima.org](http://www.pce.poornima.org)

Save Water | Save Energy | Save Trees | Save Life

  
**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, RIICO Institutional Area  
Sitapura, JAIPUR

## Poornima College of Engineering - Activity Report - 2017-18

### Teaching Faculty

**Professor N K Kishore**  
Department of Electrical Engineering, IIT Kharagpur  
email: kishore@ee.iitkgp.ernet.in

**Professor Shreevardhan ASoman**  
Department of Electrical Engineering, IIT Bombay  
email: soman@ee.iitb.ac.in

**Professor Gautam Bandyopadhyay**  
Department of Electrical Engineering, IEST Kolkata  
email: gautamkabi@hotmail.com

### Eligibility

- 1) He/ she must be a faculty member in the Department of Electrical Engineering/ Electrical and Electronics Engineering with basic understanding of Electric Circuits, Signals and Systems, Electric Machines, Power Electronics, Power Systems, Energy Science and High Voltage Engineering related Departments and Centres.
- 2) B.E. / B. Tech. or equivalent degree holders in the above mentioned disciplines with minimum teaching experience of 2 years and moderate teaching experience in the area of Power and Energy Systems
- 3) M.E. / M.Tech. degree holders in the above mentioned disciplines with minimum teaching experience of 1 year and moderate teaching experience in the area of Power and Energy Systems.
- 4) Ph.D. degree holders should have a minimum teaching experience of 1 year and moderate teaching experience in the area of Power and Energy Systems.

### Who may benefit

The workshop is likely to benefit regular/visiting faculty colleagues who are teaching subjects like Electric Machines, Power Electronics, Power Systems, Energy Science and High Voltage Engineering etc.

### Note

Please note that this ISTE STTP is conducted under the CEP IIT Kharagpur. Live recording of the course and other created contents will be released under Open Source through a portal. The recorded CD/DVD of the course lectures will be available for distribution, at cost, to any individual or institution. All participants are required to sign an undertaking for such release of contents contributed by them during and after the STTP. The recognition and citation will naturally be made for all contributors.

### Course Fee

This ISTE STTP on Electric Power System is funded by the on Education through ICT (MHRD, Government of India), therefore there is no course fee for participation.

### Accommodation and other Support for outstation Participants

Remote Centers are being funded to provide tea/lunch on each day of the workshop, and for accommodation, wherever available, for a limited number of outstation participants. Travel expenses up to Rs. 1000/- one way and one-time will be reimbursed against proof of actual expenditure, for participants beyond a distance of 100 Km from the Remote Centre.

### How to Apply

Those wishing to attend this course should register online <http://www.nmeict.iitkgp.ernet.in/epsmain.php>

Online registration open on 12<sup>th</sup> May, 2017

### Address for Communication

Admin Team,  
Project "T10KT", IIT Kharagpur  
Vikramshila Building, Ground floor, Kalidas Auditorium  
IIT Kharagpur, Kharagpur-721302  
Contact Numbers:  
Admin Team : +91 3222-281497  
Account Team : +91 3222-281498  
Moodle Team : +91 3222-281070  
A-View Team : +91 3222-281072  
Mobile : +91 8145226903  
email: office\_nmeict@iitkgp.ac.in

## TWO WEEK ISTE STTP ON ELECTRIC POWER SYSTEM

National Mission on Education through ICT  
(MHRD, Govt. of India)

July 10-15, 2017



Indian Institute of Technology Kharagpur  
Kharagpur 721302  
India

### Introduction

IIT Kharagpur and IIT Bombay are working together with Engineering Colleges of India to enhance the teaching skills of our faculty colleagues in core Engineering and Science subjects by conducting ISTE Short Term Training Programmes (STTPs) under Train Ten Thousand Teachers (T10KT) project using 353 established remote centers across India. Participating teachers attend live lectures at a remote center close to their own college, and also attend tutorial and lab sessions conducted in the same centers. The lecture transmission and live interaction takes place in distance mode using A-VIEW technology through Internet at the selected remote centers across the country. Since December 2009, a number of two-week ISTE STTPs were conducted on various Engineering subjects. We have reached out to more than 1,00,000 teachers and helped them to enhance their teaching skills in these subjects.

In order to run these STTP at selected remote centers, we invite expert faculty members from various remote centres to a five-day Coordinators' training programme held at IIT Kharagpur or at IIT Bombay, at least two months before the main STTP. The trained Coordinators then act as Workshop Coordinators during the main STTP liaising between the participants at their Remote Centers and IIT Kharagpur / IIT Bombay from where the interactive lectures are transmitted live. During the main STTP, the workshop Coordinator at every center supervises the tutorials and laboratories. All the lectures and tutorial sessions are recorded at IIT Kharagpur or at IIT Bombay. The final edited audio-visual contents, along with other course material are released under Open Source. The contents can be freely used later by all teachers, students and other learners.

In the backdrop of the success of these STTPs, we now announce another 6 day ISTE STTP on "Electric Power System" during July 10 - July 15, 2017 under Blended MOOCs (Massive Open Online Courses) model. Here,

1. The participating teachers will complete the equivalent of two-week full time work online, spread over 6 physical weeks where video lectures and assignments will be uploaded beforehand.
2. After completing the online assignments spread over 4 to 5 weeks the participants will assemble at the selected Remote Centers for 6 days face to face interaction and lecture sessions through A-VIEW and will complete team assignments, tutorials, quizzes etc.

3. Offline assignments will be uploaded and the participants will have to complete these assignments within a stipulated time.
4. There will also be a system of students' feedback in the Main STTP.

The above proposed model is tentative and subjected to minor changes

### Course Justification

Electricity is the third most important commodity, next only to Air and water for survival of human beings. The course on Electric Power System is a very important course in an electrical engineering curriculum on all aspects of Electricity right from Generation to utilization. Every graduate in broad area of Electrical Engineering needs to have a detailed exposure to (a) Elements of Power System (b) Importance of Renewables and (c) Importance of ICT in reliable operation of Power System.

### Course Overview

Electrical Power System is a core course for any undergraduate programme in Electrical Engineering. It is expected to be the first course on this topic and is typically meant for participants who already have some introductory knowledge of Electric Circuits, Electric Machines and Control Systems. The course shall cover the basic foundations of Power System Analysis, which can be used to assess effective Electric Power Delivery in practice. An awareness of available software tools for the purpose. Need for renewable energy resources will also be brought out. Participants are exposed to usefulness of employing ICT in developing smart grids. Through this course a participant is expected to be able to learn to properly identify as to what comprises an Electric Power System, examine its inherent complexity and explore different ways to develop an algorithmic solution by analyzing the various alternatives to finally develop a good practical solution that is supported by logical and theoretical justification.

### Course Objective

- Participants pursuing this course should be able to:
1. Identify as to what Comprises a Power System
  2. Realize the need for Renewable Energy Sources for Electric Power Supply.
  3. Become aware of usefulness of ICT in reliable operation of Electric Power System.
  4. Be able to carry out all essential analyses necessary to have reliable operation of Electric Power System.

### Course Modules

1. Introduction and Components of Power System
2. Steady State Operation of Power System
3. Power Flow Analysis
4. Symmetrical Components
5. Symmetrical Faults
6. Un-symmetrical Faults
7. Power System Stability
8. Economic Operation of Power System
9. Power System Protection
10. Application of Software for Power System Analysis
11. Recent Trends and Application of ICT in Power System Operation
12. Overview of a Laboratory Course on Power Systems
13. Control of Power Systems
14. Renewable Energy Issues

The learning begins by reading a good text book on the subject. This is to be followed by solving problems, including peers in a group learning effort. Discuss and interpret the results obtained. All the three are important to achieve success. In addition, it is important to be able to be aware of available softwares for the analysis. Practice some real life situations, execute them and compare their performances to check whether theoretical analysis confirms with experimentation. A text-book must be available for study. It is preferred to generally follow a single text-book. However, referring to other text-books at times to understand different topics may be preferred. While studying in a group, it is useful if individual members follow different books so that a variety of inputs are obtained. Web and video resources are good additional inputs. The steps include reading the chapters relevant, watching the video, discussing the concepts in a group and then solving a set of problems. The solutions to the problems solved by the group can be discussed together and one or more final versions may be accepted. Trying to check, other member's solutions are a very important aspect of learning any subject.

### Duration and Venue

**Duration** : The duration of the STTP will be six working days. It will start on **Monday 10th July, 2017 at 9:30 AM** and will end on **Saturday 15th July, 2017**. The participants must report to the respective remote centres by 8:00 AM on 10<sup>th</sup> July, 2017.

**Venue** : 194 remote centers located in different parts of the country. The list of participating remote centers is given along with online application form.

  
**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, FUICO Institutional Area  
Shalpur, JAIPUR



♦ **PROGRAM SCHEDULE:**

S. No.	Program	Timings
1.	Registration of the participants	08:00 am to 08:10 am
2.	Welcome of Guests	08:10 am to 08:15 am
2.	Garlanding and Lamp Lighting of Maa Saraswati by Dr. Om Prakash Sharma, Campus Director, PCE Dr. Ajay Khunteta, Remote center coordinator. Dr. Virendra Sangtani, HOD, EE Mr. Brijraj Singh Solanki (Dy. HOD, EE) Md. Asif Iqbal (Dy. Admin, EE) Mr. Harbeer Singh	08:15 am to 08:20 am
3.	Welcome of Dr. Om Prakash Sharma, Director, PCE with a Bouquet by Dr. Ajay Khunteta, Remote center coordinator	08:20 am to 08:25 am
4.	Introduction of workshop schedule during 10 <sup>th</sup> -15 <sup>th</sup> July, 2017 by Vikash Kumar Saini, Workshop Coordinator.	08:25 am to 08:30 am
5.	Progress of ICT MHRD Program at PCE by Dr. Ajay Khunteta, Remote Center Coordinator	08:30 am to 08:35 am
6.	Words of Blessings by Dr. Om Prakash Sharma, Director, PCE	08:35 am to 08:45 am
7.	Vote of Thanks by Dr. Virendra Sangtani, HOD EE	08:45 am to 08:50 am
8.	Poornima gaan followed by National Anthem	08:50 am to 08:55 am
9.	Photo Session	08:55 am to 9:00 am
10.	Transmission of Remote Center program from IIT Kharagpur	09:00 am to 11:00 am
11.	Tea Break	11:00 am to 11:15 am

**Time Table for Two-Week ISTE STTP Electric Power System  
10<sup>th</sup> July to 15<sup>th</sup> July 2017**

Date	Days	Morning			Afternoon		
July 10, 2017	Monday	Inauguration 9.00AM to 9.30AM	Introduction (NKK/SAS/GB) 9.30AM to 11.00 AM	Components of Power System (SAS) 11.15 AM to 12.45 PM	Steady State Operation of Power System I (GB) 1.45 PM to 3.15 PM	Symmetrical Faults (GB) 3.30 PM to 5.00 PM	
July 11, 2017	Tuesday	Power Flow Analysis (SAS) 9.30AM to 11.00AM		Symmetrical Components (GB) 11.15 AM to 12.45 PM	Un-symmetrical Faults (GB) 1.45 PM to 3.15 PM	Economic Operation of Power System (GB) 3.30 PM to 5.00 PM	
July 12, 2017	Wednesday	Power System Stability I (SAS) 9.30AM to 11.00 AM		Power System Stability II (SAS) 11.15AM to 12.45PM	Power System Protection I (GB) 1.45 PM to 3.15 PM	Power System Protection II (GB) 3.30 PM to 5.00 PM	
July 13, 2017	Thursday	Application of Software for Power System Analysis I (NKK) 9.30AM to 11.00AM		Application of Software for Power System Analysis II (NKK) 11.15AM to 12.45PM	Recent Trends (SAS/RN) 1.45 PM to 3.15 PM	Application of ICT in Power System Operation (SAS/RN) 3.30 PM to 5.00 PM	
July 14, 2017	Friday	Overview of a Laboratory Course on Power Systems (NKK) 9.30AM to 11.00AM		QUIZ (NKK) 11.15AM to 12.45PM	Control of Power Systems I (SAS) 1.45 PM to 3.15 PM	Renewable Energy Issues (NKK) 3.30 PM to 5.00 PM	
July 15, 2017	Saturday	Control of Power Systems II (NKK) 9.30AM to 11.00AM		SciLab (KMM) 11.15AM to 12.45PM	Feedback & Valedictory (2.00 PM to 5.00 PM)		

(NKK: Professor N K Kishore, SAS: Professor S A Soman, GB: Professor Gautam Bandyopadhyay, RN: Mr. Narayanan R, KMM: Professor Kannan M Moudgalya)

Note: Every Lecture will include 15 Minutes Discussion at the End

## ♦ ABOUT THE STTP:

Two-Week ISTE STTP on “ELECTRIC POWER SYSTEM” National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Kharagpur, 10th July – 15th July 2017

Sub: Invitation for the Inaugural Session of Two-Week ISTE STTP on “ELECTRIC POWER SYSTEM” National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Kharagpur

Respected Sir/Madam,

We are pleased to inform you that Department of Electrical Engineering, Poornima College of Engineering is organizing a Two-Week ISTE STTP on “ELECTRIC POWER SYSTEM” National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Kharagpur from 10th July – 15th July 2017.

It is expected to be the first course on this topic and is typically meant for participants who already have some introductory knowledge of Electric Circuits, Electric Machines and Control Systems. The course will cover the basic foundations of Power System Analysis. which can be used to assess effective Electric Power Delivery in practice. An awareness of available software tools for the purpose, need for renewable energy resources will also be brought out. Participants are exposed to usefulness of employing ICT in developing smart grids.

In this connection, we take this opportunity to invitation/request your gracious presence for the Inaugural Session of Two-Week ISTE STTP on “ELECTRIC POWER SYSTEM” National Mission on Education through ICT (MHRD, Govt. of India)

**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-0, Full CO Institutional Area  
Sitapura, JAIPUR

Venue: CG-07 QEEE Seminar Hall, Poornima College of Engineering ISI-6, Sitapura, Jaipur

Time: 8:00 am to 9:00 am

The enclosed Q-sheet, Time Table and Brochure will provide all necessary details about the STTP. In case any further information is required, kindly feel free to contact the undersigned.

Waiting for your positive response.

With best regards,

Dr. Om Prakash Sharma

Director, PCE

Mob. No.: +91-9928015792

Email: opsharma@poornima.org

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**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, FIICO Institutional Area  
Sitapura, JAIPUR

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### **Course Justification-**

proposed model is tentative and subjected to minor changes. Electricity is the third most important commodity, next only to Air and water to the human beings. The course on Electric Power System is a very important one in an electrical engineering curriculum on all aspects of Electricity right from generation to utilization. Every graduate in broad area of Electrical Engineering needs to have a detailed exposure to (a) Elements of Power System (b) Importance of renewables and (c) Importance of ICT in reliable operation of Power System.

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8. Economic Operation of Power System
9. Power System Protection
10. Application of Software for Power System Analysis



11. Recent Trends and Application of ICT in Power System Operation
12. Overview of a Laboratory Course on Power Systems

✦ **GLIMPSES OF THE EVENT:**







**PARTICIPANT CERTIFICATE:**



**POORNIMA**  
COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

PCE/ADMIN/2016-17/3249

24<sup>th</sup> May, 2017

From,  
Dr. Om Prakash Sharma  
Director,  
Poornima College of Engineering  
Jaipur

To,  
The Project Co-ordinator  
Project "T10KT", IIT Kharagpur  
Vikramshila Building,  
Ground floor, Kalidas Auditorium  
IIT Kharagpur, Kharagpur – 721302

**Permission letter for Two Week ISTE STTP on Electric Power System**

This is to certify that the following participants are regular teaching employees of our Institute with one of the following designation :- (Jr. Lecturer/ Lecturer/Sr. Lecturer/Asst. Professor/Associate Professor/ Professor/HOD/ Reader/Vice- Principal/Visiting Faculty/ Teaching Fellow).

S. No.	Name of Members	Designation	Department
1	Mr. Dinesh Kumar Sharma	Assistant Professor	Electrical Engineering
2	Mr. Gaurav Srivastava	Assistant Professor	Electrical Engineering
3	Ms. Dayana P.	Assistant Professor	Electrical Engineering
4	Mr. Harbeer Singh	Assistant Professor	Electrical Engineering
5	Mr. Khushaldeep Sharma	Assistant Professor	Electrical Engineering
6	Mr. Krishankant Katara	Assistant Professor	Electrical Engineering
7	Mr. Pravin Kumar	Assistant Professor	Electrical Engineering
8	Mr. Rajendra Singh	Assistant Professor	Electrical Engineering
9	Ms. Raksha Goyal	Assistant Professor	Electrical Engineering
10	Mr. Ravi Shankar Singh	Assistant Professor	Electrical Engineering

The faculty members are allowed to attend the workshop on Electric Power System under the National Mission on Education through ICT (MHRD, Govt. of India) from dated 10/07/2017 to 15/07/2017 in the Poornima College of Engineering, Jaipur (II07).

The Institute has no objection to his/ her participation in the workshop. We would make sure that no official duties will be delegated which may affect his/ her participation, during workshop.

Thank You,

  
24.05.17  
Dr. Om Prakash Sharma  
B.E., M.E., Ph.D.  
Director,  
Poornima College of Engineering  
Jaipur

  
Dr. Mahesh Bunde  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-0, PUICO Institutional Area  
Shilpura, JAIPUR

# LIST OF PARTICIPANTS:

## POORNIMA COLLEGE OF ENGINEERING, JAIPUR

DEPARTMENT OF ELECTRICAL ENGINEERING  
TWO-WEEK ISTE STTP ON ELECTRIC POWER SYSTEM  
National Mission on Education through ICT (MHRD, Govt. of India)  
ISTE STTP on Electric Power System

Attendance Sheet Format for Working Team Members							
RC ID :1107							
Sl No	Name	Designation	10.07.2017	11.07.2017	12.07.2017	13.07.2017	14.07.2017
1	Dr. Ajay Khunteta	Remote Center Coordinator					
2	Mr. Vikash Kumar Saini	Workshop Coordinator					
3	Dr. Om Prakash Sharma	Teaching Assistant					
4	Mr. Dharmendra Kumar Bansal	Teaching Assistant					
5	Ms. Shital R. Shegokar	System Administrator					
6	Mr. Avinash Moena	System Administrator					
7	Mr. Shivraj Rajawat	A-VIEW Coordinator					
8	Mr. Mahendra Singh	Support staff, Helpers					

Institute Head's Signature

*Dr. Om Prakash Sharma*  
15/7/17  
Dr. Om Prakash Sharma  
B.E., M.E., Ph.D.  
Director  
Department of Electrical Engineering  
Poornima College of Engineering  
ISTE STTP on Electric Power System  
Jaipur (Rajasthan)-302022

## POORNIMA COLLEGE OF ENGINEERING, JAIPUR

DEPARTMENT OF ELECTRICAL ENGINEERING  
TWO-WEEK ISTE STTP ON ELECTRIC POWER SYSTEM  
National Mission on Education through ICT (MHRD, Govt. of India)  
ISTE STTP on Electric Power System

RC- ID :1107		Attendance sheet 1											
Participant's ID	Name of the Participants	10/07/2017 ( Day 1 )				11/07/2017 ( Day 2 )				12/07/2017 ( Day 3 )			
		Before Tea Break 1	Before Lunch	After Lunch	After Tea Break 2	Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2	Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2
1253 ✓	Amba Lal Mathur												
2347 ✓	Amit Kumar Jain												
1254 ✓	Anil Pratap Singh												
819 ✓	Ankit Patel												
2635 ✓	Ankita Bhatia												
1258 ✓	Bhuvan Pratap Singh												
1855 ✓	Brajesh Kumar Goyal												
4673	Brjmoohan Prajapat												
2352 ✓	ChaitanSukh Morodia												
1250 ✓	Gayana P												
2262 ✓	Deepika Chauhan												
1261	Devendra Singh												
727	Dharmendra Kumar Bansal												
4845	Dhaval Patel												
2259 ✓	Dinesh Kumar Sharma												
1587	Gaurav srivastava												
2354 ✓	Hanuman Kharol												
1266 ✓	Harbeer Singh												
1535 ✓	Kalyan Ranjan												
1268 ✓	Krishankant Katara												
1267	Kushaldeep Sharma												

*Dr. Mahesh Bunde*  
Dr. Mahesh Bunde  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISTE STTP on Electric Power System  
Jaipur (Rajasthan)-302022



2326	Manish Sharma
1257	mohammed asif iqbal
2333	Murari Kumar
3629	Naween Sharma
1263	Neeraj Tiwari
1275	Neha Nigam
1586	Nemichand Koli
1317	Nirban Chakrabarti
1937	Prabjit Bandyopadhyay
5635	Praveen Agrawal
1269	Pravin Kumar
1270	Rajendra singh
2077	Rajnish Saxena
1271	Rakesha Goyal
4990	Ravishankar Kumar Sinha
1251	Richa A
1312	Samarit Saha
2357	Shital R Shergolar
1320	Shubhajin Pal
1331	Sudip Halder
1273	Sumit Chand Prasad
228	Sueta Singh
5100	Tanraj Jayswal
2338	Taran Mishra
1274	Udit mamediya
1264	Virendra Swaroop Sangtam
	Workshop Coordinator Mr. Vikash Kumar Sarma
	Remote Centre Coordinator Dr. Anis Khutera

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

DEPARTMENT OF ELECTRICAL ENGINEERING  
TWO-WEEK ISTE STTP ON ELECTRIC POWER SYSTEM  
National Mission on Education through ICT (MHRD, Govt. of India)  
ISTE STTP on Electric Power System

[illegible]

**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.

**Director**

**Director**  
**Poornima College of Engineering**  
**ISI-0, RILCO Institutional Area**  
**Slrapura, JAIPUR**



