

*Information Brochure*

**National Seminar  
on  
Modern Trends in Power System Communication  
December 12, 2009**

**Venue: Meghnad Saha Auditorium, Rashbehari Sikshapangan  
92, A. P. C. Road,  
Kolkata 700 009**



*Organised*

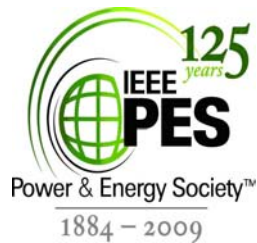
By



**Department of Applied Physics  
University of Calcutta**

**Under the Auspices of UGC SAP DRS-I**

*In Technical Collaboration with*



**Kolkata Chapter**



**Kolkata Network**

## About the Department

Department of Applied Physics was established in 1925 under University of Calcutta for Post Graduate studies in Electrical Technology and allied sciences. With the years, it has produced a number of Eminent Teachers and Pioneer Technologists of national and international fame. Through ages, a number of Departments have evolved from this Department as need of the day. Presently, this Department offers two post B.Sc. (Hons) B.Tech. degrees in Electrical Engineering and Instrumentation Engineering, two M.Tech. degrees in Electrical Engineering and Instrumentation and Control Engineering and two three year part-time M. Tech. degrees in Electrical Engineering (Electrical Power) and Instrumentation and Control Engineering. Research activities are prime outputs of the department. Doctoral degrees in the relevant areas are also offered from this department.

This department has developed a number of state-of-the-art-technology Laboratories with funding from different government agencies.

## The Theme

It is well known that modern power system is becoming a very complex electrical network in the deregulated environment and restructured regime. The complexity will be enhanced to a very high degree with the introduction of microgrid concept as well as distributed generation. Power Line Communication (PLC) technology has been in vogue for long, although, with the introduction of new electronic devices, this technology has also evolved to improved versions. Modern communication technologies e.g. GSM, CDMA, satellite communication, fiber optic communication etc. are being applied in all sectors along with power system. The overall monitoring, maintenance, fault protection, load flow analysis etc. from a centralized location can be made very reliable and efficient using the above technologies in a power system.

Keeping an eye to the need of awareness of these technologies the topic is selected. Different areas of this topic will be dealt with by the eminent experts of the country.

**The speakers are Professor D. P. Kothari, Vice Chancellor, VIT University, Professor R. K. Pandey, IT-BHU, Mr. P. Mukhopadhyay, Power Grid Corporation, Mr. N. Murugesan, TCE, Bangalore, Mr. Sukanta Basu, CESC Kolkata, Professor A. Chakrabarti, BESU, Kolkata and Professor S. Sarkar, Jadavpur University and also from professional bodies like IEEE, and IET (UK).**

### **Chief Patron**

**Suranjan Das**  
Vice Chancellor  
University of Calcutta

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**D. Chattopadhyay**  
Pro-Vice Chancellor  
University of Calcutta

**T. K. Mukherjee**  
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University of Calcutta

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Hari Prakash, Dept. of Physics, Allahabad University  
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## **Registration Form**

### **National Seminar on Modern Trends in Power System Communication**

**December 12, 2009**

Dear Sir,

Following may please be registered as delegate for participation in the National Seminar.

Sl. No	Name & Designation	Address	e-mail & Phone

### **Registration / Delegation Fees**

Student	Rs.50.00
Others	Rs.100.00

**Delegates are requested to inform their participation through e-mail on or before 09.12.2009**

### **Addresses for Correspondence**

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**National Seminar on**  
**Modern Trends in Power System Communication**

**December 12, 2009**

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 92, Acharya P. C. Road, Kolkata 700 009

**Programme**

<b>Inaugural Session (11:00 – 11:55am)</b>		
10:00 AM	Registration	
11:00 AM	Welcome Address	Professor S. K. Sen, Head, Department of Applied Physics
11:05 AM	About the Department	Sri R. Gupta, Department of Applied Physics
11:15 AM	Inaugural Address	Professor S. Das, Vice Chancellor, University of Calcutta
11:25 AM	Address by Pro-Vice Chancellor, CU	Professor D. Chattopadhyay,
11:30 AM	Address by Dean, FET, CU	Professor S. Sen
11:35 AM	Keynote Address : <b>‘Recent Trends in Power System Communication’</b>	Professor D. P. Kothari, Vice Chancellor, VIT University, Tamil Nadu
12.00	Vote of Thanks	Dr. M. Mitra, Department of Applied Physics
Tea Break		
<b>Technical Session- I (12:20 – 1:15 PM)</b>		
<b>Session Chair: Professor D. K. Basu, Ex-Vice Chancellor, Burdwan University</b>		
12:20 PM	<b>Salient Operational Problems in EHV Power System</b>	<b>Professor A.Chakraborty, Bengal Engg. &amp; Sc. University</b>
12:35 PM	<b>Modern Control Concepts in Large Power Network</b>	<b>Professor R.K.Pandey, Institute of Technology, BHU, Varanasi</b>
Lunch Break (1:15 -2:15 PM)		
<b>Technical Session- II (2:15 – 4:15 pm)</b>		
<b>Session Chair: Professor R. K. Pandey, Institute of Technology, BHU, Varanasi</b>		
2:15 PM	<b>Supervisory Control And Data Acquisition</b>	<b>Sri Sukanta Basu, CESC Ltd., Kolkata</b>
2:45PM	<b>Smart Metering and Advanced Metering Infrastructure</b>	<b>Sri N.Murugesan, Tata Consulting Engineers, Bangalore</b>
3.15 PM	<b>Basic Communication Systems</b>	<b>Prof. Subir Sarkar, Jadavpur University</b>
3:45 PM	<b>ERLDC SCADA System- Communication protocols</b>	<b>Sri S.Praveen, Power Grid Corporation of India</b>