

### Course Outline and Objectives:

High-voltage power transmission engineering is an important discipline in the power systems area. Several projects both in ultra-high voltage (UHV) ac and dc transmission are being planned and executed in our country. This short course is a platform to discuss the existing scenarios, analyze them and develop possible future road map.

### Course Contents:

1. Basics of generation of high AC, DC and impulse voltages and currents.
2. Over-voltages in power systems
3. Lightning issues related to UHV power transmission
4. Recent advances in UHV transmission & distribution systems
5. Introduction to substation automation, SCADA, smart grid and electricity regulations
6. Lab. demonstrations & industry visit.

### Course Organization:

The course consists of lectures, lab visits, demos, industry visits and technical discussions.

### Faculty:

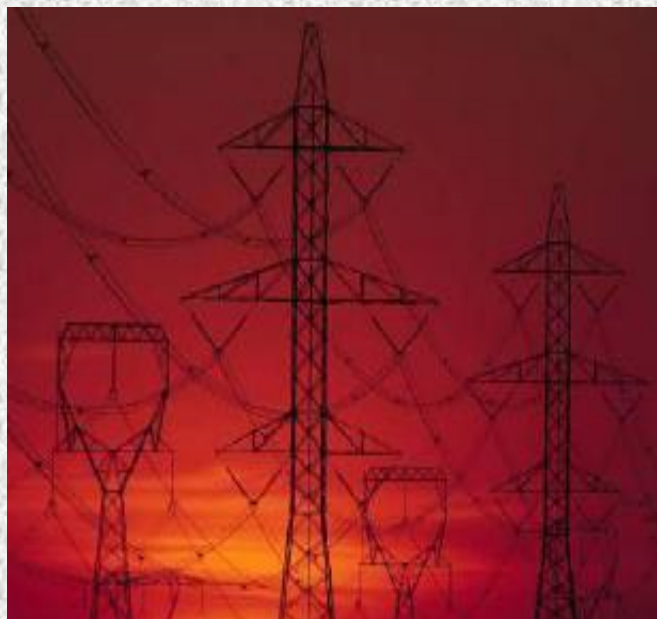
IISc faculty and a few experts from industry and R&D Institutes will deliver the lectures.

### Eligibility:

The course is meant for faculty of AICTE – recognized engineering colleges. Selected teachers will be paid TA at actual subject to the limit of Three tier AC train/bus fare by the shortest route from the place of work to Bengaluru and back. **However, the maximum TA payable is Rs.3000/-.** They will be provided with a daily allowance of Rs.500/- per day (for 5 days only) towards boarding and lodging as per QIP rules, and will be supplied with the course materials. **The lodging charges**

**will be Rs.300/- per day. Local participants will be paid DA @ Rs.150/- per day for 5 days.**

**A few seats** are available for non-sponsored (self-support) teachers, practicing engineers from Utilities, R&D organizations, industries and other interested in this course. **A course fee of Rs.10,000/- will be charged to these participants.** This will entitle them to participate in the course and receive the course material. Single room **accommodation** is available on the Institute campus at the **Hoysala guest House.** The participants have to request in advance along with the registration form for such accommodation. The lodging charges will be **Rs.1000/- per day**, for self –support college teachers and **Rs.1500/- per day** for industry participants, subject to availability of accommodation.



**CENTRE FOR CONTINUING EDUCATION  
Indian Institute of Science  
Bengaluru – 560 012**

**QIP Short Term Course**

**On**

**Recent Advances in UHV Transmission  
and Distribution**

**19<sup>th</sup> to 23<sup>rd</sup> December 2016**

**Registration Form**

**(Please mail to reach before 4<sup>th</sup> November, 2016)**

1. Name.....
2. Age:..... Sex: Male/Female
3. Office address  
.....  
.....  
.....
4. Landline No. with STD code:.....
5. Mobile No. ....
6. Email ID:.....
7. Academic Qualifications  
Degree                      subject                      year                      University  
Diploma/B.Sc./B.A.....  
B.E/B.Tech/M.Sc. ....  
M.E/M.Tech./M.Phil.....  
Ph.D. Completed/Pursuing/Intend pursuing:.....  
Thesis title/Proposed Research Area:.....  
.....
8. Teaching Experience.....(Years)

9. Industry Experience .....(Years)
10. Course taught/professional responsibilities.....  
 .....  
 .....  
 .....  
 .....
11. Accommodation required Yes / No
12. Self-support candidate : Rs. 10,000/-  
 Demand Draft No.....  
 dated.....

**Please mail this application to:**

**Please mail the filled-in application form to:**

The Section Officer  
 Centre for Continuing Education  
 Indian Institute of Science  
 Bengaluru - 560 012  
 Telephone: 080-23600911, 22932055/2491  
 Email: so@cce.iisc.ernet.in/  
 office@cce.iisc.ernet.in

**To reach on or before 4<sup>th</sup> November, 2016**

Intending participants may use the attached application form or a xerox copy of the same. Applicants from AICTE recognized colleges are required to submit their applications sponsored by their colleges.

Non-sponsored (self-support) teacher applicants /others should send their application along with a **DD for Rs.10,000/-** drawn in favour of “**Registrar, Indian Institute of Science, Bangalore-560012**” payable at Bengaluru.

**Deadlines:**

Receiving completed application: **4<sup>th</sup> November, 2016**

Intimation of selection: **10<sup>th</sup> November, 2016**

I agree to abide by the rules of the QIP courses. If selected, I shall participate in the course for the entire duration.

Date:  
 Place:

Signature

The applicant Mr/Ms.....  
 .....

from our institution will be permitted to attend the QIP Short Term Course on “**Recent Advances in UHV Transmission and Distribution**” to be held during **19<sup>th</sup> – 23<sup>rd</sup> December 2016** at the Indian Institute of Science, Bengaluru, if selected. He/she will be granted necessary leave of absence.

Place:

Date:

Signature of Head of the  
 Department

Signature and Seal of the  
 Principal of the Institution

**(Xerox copy of this form may also be used)**

**QIP Short Term Course**

**On**

**Recent Advances in UHV  
 Transmission and Distribution**

**19<sup>th</sup> to 23<sup>rd</sup> December 2016**

**Coordinator**

**Dr. Subba Reddy B**

**Principal Research Scientist**

**High Voltage Laboratory**

**Department of Electrical Engineering**

**Sponsored by**

**AICTE, NEW DELHI**



**Centre for Continuing Education  
 Indian Institute of Science  
 Bengaluru – 560 012**