

### Whom will the course benefit?

Faculty members of electrical engineering and practicing engineers from electric utilities and industry who are interested in high voltage engineering, power apparatus and condition monitoring.

### Course Objective:

To enhance the understanding in condition monitoring, diagnostics and testing of HV equipments for the participants.

### Course Contents:

1. Introduction to EHV/UHV Engineering, importance of condition monitoring and diagnostics methods.
2. Significance of preventive, condition based and other maintenance strategies.
3. Subjective and objective type monitoring methods including SCADA.
4. Ageing, deterioration and insulation failure of HVAC & HVDC equipments in service-case studies.
5. Solid, liquid and gas insulation materials and degradation, consequence of multi-stresses on HV equipment in service.
6. Laboratory procedures and field computation techniques for insulation evaluation and diagnostics.
7. Onsite, factory and third party testing of HV equipment and diagnostics.
8. Laboratory demos, Industry visits.

### Faculty:

IISc faculty and guest faculty will deliver the lectures.

### Eligibility:

The course is meant for faculty of engineering colleges recognized by All India Council for Technical Education (AICTE), National Institutes of Technology (NIT's) and National Institute of Technical Teachers' Training & Research (NITTTRs). 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/- (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.**

In addition, a few seats are available for non-sponsored (self-support) teachers, scientists from research labs, practicing engineers from industries and other interested persons on payment basis as under.

### Course Fee:

Academic Institutes, Govt. R&D Labs: **10,000 INR**  
Private Industries : **15,000 INR**

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 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 “Condition Monitoring, Diagnostics & Testing of High Voltage Apparatus”

3-7 July 2017

### Registration Form

(Please mail to reach before **29 May 2017**)

1. Name.....
2. Age:..... Sex: Male/Female
3. Office address.....  
.....  
.....  
.....
4. Landline No. with STD code:.....
5. Mobile No. ....
6. EmailID:.....
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 :

Academic Institutes, Govt. R&D Labs: **Rs.10,000**  
Private Industries : **Rs.15,000**

DemandDraftNo.....dated.....

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 “**Condition Monitoring, Diagnostics & Testing of High Voltage apparatus**” to be held during **3-7 July 2017** at the Indian Institute of Science, Bengaluru, if selected. He/she will be granted necessary leave of absence.

It is certified that our college is recognized by AICTE Order No:.....Date:.....

Place:

Date: \_\_\_\_\_ Signature of Head of the Department

Signature and Seal of the Principal of the Institution

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

Non-sponsored (self-support) teacher applicants should send their application along with a **DD for the course fee** drawn in favor of “**Registrar, Indian Institute of Science, Bengaluru -560012**” payable at Bengaluru. The course fee will be **Rs. 10,000** for participants from **academic institutions and government research labs**, and **Rs. 15,000** for participants from **other organizations**.

**Deadlines:**

Receiving completed applications: **29 May 2017**

Intimation of selection: **2 June 2017**

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

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

**To reach on or before: 29 May 2017**

**QIP Short Term Course On**

**“Condition Monitoring, Diagnostics & Testing of High Voltage Apparatus”**

**3-7 July 2017**

**Coordinator**

**Dr. Subba Reddy B**  
**Dept. of Electrical Engineering**

Sponsored by  
AICTE, NEW DELHI



Centre for Continuing Education  
Indian Institute of Science  
Bengaluru – 560 012  
<http://www.cce.iisc.ernet.in>

(Xerox copy of this form may also be used)