

Whom will the course benefit?

Engineering College teachers and research students from Power system analysis, Power system Control, Digital protection of Power system, Voltage stability, State Estimation, Microgrid, Artificial intelligence techniques disciplines.

Course Objective:

To bridge the gap between fundamentals and advanced topics in power systems area.

Course Contents:

1. Power System Steady State Analysis, Contingency Analysis, State Estimation
2. Power System Dynamic Modeling, Stability, Power System Stabilizers.
3. Protection Principles, Relay Algorithms, Relay Hardware, Implementation of typical digital protection schemes.
4. Advances in Power System Protection, AI Techniques in Power System Protection, Wide Area Measurements, Microgrid Control
5. EMTP basics and transient behavior of CTs and CVTs, Power System Simulation Exercises.

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.

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

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

"Topics in Control, Operation and Protection of Power Systems"

10th-14th April 2017

Registration Form

(Please mail to reach before **11th March 2017**)

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.....

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.....
.....

11. Accommodation required Yes / No

12. Self-support candidate :

Academic Institution, Govt. R&D Labs: **Rs.10,000/-**

Private industries and others : **Rs. 15,000/-**

Demand Draft No..... 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:

The applicant Mr/Ms.....

.....
from our institution will be permitted to attend the QIP Short Term Course on **“Topics in Control, Operation and Protection of Power Systems”** during **10th-14th April 2017** to be held 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 the **DD** 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 R&D labs. and **Rs.15,000** for Private industries and others.

Deadlines:

Receiving completed applications: **11th March 2017**

Intimation of selection: **16th March 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: so@cce.iisc.ernet.in/
office@cce.iisc.ernet.in

To reach on or before: 11th March 2017

QIP Short Term Course On

“TOPICS IN CONTROL, OPERATION AND PROTECTION OF POWER SYSTEMS”

10th-14th April 2017

Coordinator(s)

Dr. Gurunath Gurralla & Dr. Sarasji Das
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>

(Photocopy of this form may also be used)