

Whom will the course benefit?

Engineering college teachers, Professional structural design engineers, Practicing architects, Postgraduate civil engineering students, Administrators / Policy Makers

Course Outline and Objectives:

- To give a comprehensive exposure to earthquake engineering.
- To review fundamentals of structural dynamics.
- To give comprehensive exposure to static and dynamic behavior of masonry buildings.
- To discuss earthquake resistant design concepts for RCC Structures,
- To introduce earthquake geotechnical engineering.

Course Contents:

- Introduction to earthquake engineering
- Earthquake hazards
- Introduction to structural dynamics
- Matrix structural dynamics
- Concept of response spectrum
- Uncertainty modeling of earthquake ground motion.
- Behavior of RC framed structures and masonry buildings during earthquakes
- Repair/Retrofitting of masonry and RC structures
- Dynamic properties of soils;
- Assessment of liquefaction potential of soils during earthquakes and their mitigation through ground improvement techniques
- Indian standard codes of practice.

Course Organization:

The course will consist of lectures by IISc faculty and guest faculty from IIT Kanpur / Guwahati and IIT Madras.

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.**

In addition, a few seats are available on payment basis for non-sponsored (self-support) teachers, scientists from R&D organizations, practicing engineers from industry and others 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-sponsored college teachers and **Rs.1500/- per day** for other participants, subject to availability of accommodation.

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

QIP Short Term Course on

“Seismic Resistant Design of Masonry and Reinforced Concrete Structures”

16 - 20 January, 2017

Registration Form

(Please mail to reach before 16th December 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. Courses taught/professional responsibilities.....

 11. Accommodation required Yes / No
 12. Self-support candidate : Rs. 10,000/-
 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:

Signature

The applicant Mr/Ms.....

.....
 from our institution will be permitted to attend the QIP Short Term Course on “**Seismic Resistant Design Of Masonry and Reinforced Concrete Structures**” to be held during **16-20 January, 2017** 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)

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, 22932055/2491
 Email: so@cce.iisc.ernet.in/
 office@cce.iisc.ernet.in

To reach on or before 16th December, 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, Bengaluru - 560012”** payable at Bengaluru.

Deadlines:

Receiving completed application: 16th December, 2016

Intimation of selection: 23rd December, 2016

QIP Short Term Course on

“Seismic Resistant Design of Masonry and Reinforced Concrete Structures”

16 - 20 January, 2017

Coordinator

Dr.K.S.Nanjunda Rao
Dept. of Civil Engineering

Sponsored by
AICTE, NEW DELHI



Centre for Continuing Education
Indian Institute of Science
Bengaluru – 560 012
Website: cce.iisc.ernet.in