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A QIP Sponsored Short Term Course on

# SEISMIC DESIGN OF RC BUILDINGS

12-16 September 2011  
At Bhubaneswar



**Coordinators: Dr. Damodar Maity  
Dr. Aniruddha Sengupta**

Organized by



Department of Civil Engineering  
Indian Institute of Technology Kharagpur  
West Bengal – 721302

## **BACKGROUND**

The increased frequency of earthquakes around the world has brought the country urgency for a planned programme to ensure aseismic design of all new buildings. The catastrophic event of the Bhuj and Kashmir earthquakes and the resulting devastating loss of life and property show that there is an urgent need for us to sit back and review the present state of the designing multi-storeyed buildings in our country particularly in the seismic prone areas. In this course teachers/scientists/engineers will be given a complete understanding in seismic analysis and designing of RC buildings. The course is aimed to augment the teaching skills and strengthen the research programs of the participants.

## **COURSE OBJECTIVES**

The objectives of the proposed course are (i) to train the teachers/engineers of our country on the recent trends for analysis and design of RC buildings with the easy use of related software and (ii) updating of knowledge as rapid progress has been made in the understanding of earthquake action on buildings due to development of faster generation of computer.

## **COURSE CONTENTS**

- Concepts of seismic modeling and analysis of buildings
- Basics of aseismic design of RC buildings
- Design and detailing of building frame as per IS codes
- Seismic design of shallow and deep foundations
- Case histories of failures of buildings
- Seismic design of buildings using related Software

## **FACULTY**

Faculty members of IIT Kharagpur and guest faculty from other premier Institutions/Organizations will deliver lectures.

## **ABOUT BHUBANESWAR**

Bhubaneswar, the capital of Orissa, is also popularly known as the "Temple City of India". Being the seat of Tribhubaneswar or 'Lord Lingaraj', Bhubaneswar is an important Hindu pilgrimage centre. Hundreds of temples dot the landscape of the Old Town, which once boasted of more than 2000 temples. The new Bhubaneswar with its modern buildings and extensive infrastructure perfectly complements its historic surroundings. With facilities to cater to every type of visitor, Bhubaneswar makes an ideal tourist destination. Bhubaneswar is well connected by air, rail and road to the rest of India.

## **FINANCIAL ASSISTANCE**

Participants from AICTE recognized engineering institutions will be eligible for to and fro railway fare via shortest route in sleeper class/ AC 3-Tier and free lodging and boarding during course period at Bhubaneswar. Candidates attending the course in full only will be eligible for TA and DA. Participants are required to produce ticket(s) in original for reimbursement.

For all other participants no TA/DA will be paid by the organizer.

## **ELIGIBILITY**

The course is open to teachers of Engineering Colleges approved by AICTE and professionals having a degree in Civil/Earthquake Engineering or related subjects. **No course fee** is charged for participants sponsored by AICTE approved institutions. Participants from Industry and Government organizations are also eligible, provided they meet their T.A. and D.A. **A course fee @ Rs. 10000/-** will be charged for participants from industry and Government organizations. The payment is to be made by demand draft drawn on any Nationalized Bank in favour of **CEP-STC, IIT Kharagpur, payable at Kharagpur.**

**A caution-money of Rs. 1000/- in the form of demand draft** has to be sent by all the provisionally selected participants, which will be returned only when the participant joins the course.

## **BOARDING AND LODGING**

Boarding and lodging facilities will be provided for the participants in the hotels / guest houses / hostels at Bhubaneswar.

## **IMPORTANT DATES**

The last date for the receipt of duly sponsored applications: **8<sup>th</sup> August 2011**

Intimation of selection by email: **12<sup>th</sup> August 2011**

Last date for receiving caution money / course fee from selected participants: **26<sup>th</sup> August 2011**

Course Registration: **12<sup>th</sup> September 2011**

**N.B.** Interested candidates may send advance copy of the application form duly countersigned by the Head of the Department / Controlling Officer (for sponsored candidate) to avoid procedural delay.

# APPLICATION FORM

## **A QIP Sponsored Short Term Course on Seismic Design of RC Buildings during 12-16 September 2011 at Bhubaneswar**

1. Name (block letter):
2. Designation & pay scale:
3. Organization:
4. Address for communication:

Pin code:

Mobile No.:

E-mail:

5. Highest Academic Qualification:

6. Specialization:

7. Experience (in years):

(a) Teaching:

(b) Industrial:

8. Amount of TA required as per entitlement mentioned in this brochure (only for AICTE approved college teachers):

Please register me for the course on "**Seismic Design of RC Buildings**" to be held at Bhubaneswar.

Place:

Date:

Signature of the applicant

# **SPONSORSHIP FORM**

Prof./Dr./Mr./Mrs./Ms. \_\_\_\_\_ is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course at Bhubaneswar during 12<sup>th</sup> – 16<sup>th</sup> September 2011, if selected.

Date:

Signature of Sponsoring Authority

Designation:

Official Seal:

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## **For applicants from Industries and Government Departments:**

DD No. & Date:

Bank:

Amount:

Signature of the Applicant:

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The duly sponsored application form should be mailed to:

Dr. Damodar Maity / Dr. Aniruddha Sengupta

Department of Civil Engineering,

Indian Institute of Technology Kharagpur,

West Bengal – 721302

Ph. No.: 03222 283406 (O), Fax No.: 03222 282254

Email: [dmaity@civil.iitkgp.ernet.in](mailto:dmaity@civil.iitkgp.ernet.in)

[sengupta@civil.iitkgp.ernet.in](mailto:sengupta@civil.iitkgp.ernet.in)