



**DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR
Palaj, Gandhinagar 382355**

**Gaurav Srivastava
Assistant Professor**

February 20, 2018

Subject: Short Course on **Design of Reinforced Concrete Structures for Earthquake and Fire as per NBC 2016 during **May 2 – 5, 2018** to be held at **IIT Gandhinagar****

Dear Sir/Ma'am:

I enclose herewith brochure for the above mentioned course. Since the new infrastructural demand requires innovative solutions to overcome the challenges, we believe that this course may prove very useful to engineers interested in design and construction.

In the past, the course instructors have been very successfully conducted numerous training courses on similar topics for professional engineers. All the courses were very much appreciated by the participants.

We therefore suggest that you consider sponsoring some of your engineers to this course.

Thanking you,

Yours sincerely,

Encl: Brochure of the short course

Gaurav Srivastava



Short Course on

Design of Reinforced Concrete Structures for Earthquake and Fire as per NBC 2016

To be conducted at IIT Gandhinagar during May 2 – 5, 2018

Course Objectives

The course is set at the backdrop of recently revised NBC of India and aims at focusing on two important aspects of design of reinforced concrete structures using the updated code: earthquake resistant design and design for fire safety. The course will involve in-depth discussions of the new features of the NBC 2016 pertaining to earthquake and fire and will entail hands-on sessions with several design examples to ensure proper appreciation of the revised provisions. Principally, IS 1983, 13920 and 1642 will be considered. It is expected that the course will enhance the understanding of the new provisions among all stakeholders of the Civil Engineering community.

Participants

The course is designed for

- Civil Engineers, in Central and State Governments and PSUs in particular Structural Engineers engaged in design and execution of structures.
- Senior professionals responsible for directing these activities.
- Faculty/Students in civil engineering at academic institutions.

Course Contents

- Elements of Earthquake Engineering
- Consideration of fire as a structural load
- Design of shallow and deep footings as per new NBC
- Detailed discussion of new IS 1893
- Detailed discussion of new IS 13920
- Detailed discussion of IS 1642
- Hands-on design examples for earthquake and fire
- Introduction to base isolation systems
- Case Studies

Course Faculty

The course will be conducted by

- Prof. Durgesh C. Rai, IIT Kanpur
- Prof. Debasis Roy, IIT Kharagpur
- Prof. Mahesh Tandon, TCPL
- Prof. Dhiman Basu, IIT Gandhinagar
- Prof. Manish Kumar, IIT Gandhinagar
- Prof. Gaurav Srivastava, IIT Gandhinagar

Certificate

Participants who successfully complete the course will be awarded a certificate.

Venue

The course will be conducted at IIT Gandhinagar campus at Palaj, Gandhinagar.

Registration

The course fee is Rs. 16,500/- (Rupees Sixteen Thousand Five Hundred Only) per participant. It includes course material, lunch, and tea breaks. The fee is payable in advance by a crossed cheque or demand draft in favor of "*IIT Gandhinagar Conference Account*", payable at Gandhinagar, or via online transfer at the account details given in registration form. The postgraduate students and faculty of civil engineering may request a discount in course fee.

Interested persons should send the enclosed Registration Form to:

Mr. Nitin Shukla
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar, Gujarat – 382355
Mob: 8000070904; Fax: 079-23972586;
Email: n.shukla@iitgn.ac.in

The course website and online registration form is available at the following link.

<https://events.iitgn.ac.in/2018/drcsef/>



Indian Institute of Technology Gandhinagar

Short Course on

**Design of Reinforced Concrete Structures for Earthquake and
Fire as per NBC 2016**

To be conducted at IIT Gandhinagar during May 2 – 5, 2018

Registration Form

Name :

Designation :

Organization :

Postal Address :

Phone (office):

Phone (home):

Phone (mobile):

Fax :

Email 1:

Email 2:

Qualifications and Background :

Registration Fee :

a) Enclosed is a crossed demand draft no.dated for Rs.in favor of **"IIT Gandhinagar Conference Account"** payable at Gandhinagar.

OR

b) From the Account No., bank transfer of Rs, with transaction ID dated, has been done to the account details given below:

Bank: Canara Bank

Account name: IIT Gandhinagar Conference Account

Account no.: 1414132000015

IFS Code: CNRB0005159

Note: During NEFT/bank transfer fill the Remarks column with the text, **"RCC-2018"**

OR

c) I shall send the registration fee by (please indicate date).

(Signature)

Please return to:

Mr. Nitin Shukla

Indian Institute of Technology Gandhinagar

Palaj, Gandhinagar- 382355

Mob: 8000070904; Email: n.shukla@iitgn.ac.in