



Short Course on

# Geotechnical Aspects of Earthquake Engineering

To be conducted at Ahmedabad during 27 February – 01 March, 2012

## Course Objectives

The aim of the course is to provide the participants an overview on Geotechnical Aspects of Earthquake Engineering. At the end of the course, the participants are expected to:

- Have an overall understanding of seismic design concepts and current practices for shallow and deep foundations, slopes and retaining walls to enable them to plan and direct the construction activity appropriately.
- Understand the soil dynamic testing procedure and methodology of seismic design to be able to execute a proper design.
- Have a clear understanding of design methodology and the interpretation in the seismic codes while designing foundations, slopes and retaining walls.

## Participants

The course is designed for

- Civil Engineers engaged in design and construction of structures.
- Senior professionals responsible for directing these activities.

## Course Contents

- Ground Motion & Seismic Hazard
- Design Ground Motion
- Geotechnical Testing Methods
- Dynamic Soil Behavior
- Geotechnical Structures in Past Earthquakes
- Liquefaction & Liquefaction Potential
- Seismic Design of Foundations
- Seismic Design of Slopes & Retaining Walls
- Ground Improvement Techniques

## Course Faculty

The course will be conducted by

Dr. Sudhir K Jain, IIT Gandhinagar

Dr. Debasis Roy, IIT Kharagpur

Dr. Ajanta Sachan, IIT Gandhinagar

Dr. Amit Prashant, IIT Gandhinagar

## Certificate

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

## Venue

The course will be conducted at IIT Gandhinagar premises in Ahmedabad.

## Registration

The course fee is Rs. 14,000/- (Rupees Fourteen Thousand Only) per participant. It includes course material, lunch, and tea breaks. The fee is payable in advance by a crossed draft in favor of **Course on Earthquake Engineering, IIT Gandhinagar**.

The postgraduate students and faculty of geotechnical engineering may request a discount in course fee.

Interested persons should send the enclosed Registration Form to:

Dr. Amit Prashant  
Coordinator for Course on *Earthquake Engg*  
Indian Institute of Technology Gandhinagar  
VGEC Complex, Chandkheda,  
Ahmedabad – 382424  
Fax: 079-23972586;  
Email: ap@iitgn.ac.in

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

<http://www.iitgn.ac.in/web-GEE/>



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# **Geotechnical Aspects of Earthquake Engineering**

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## **Registration Form**

**Name :**

**Designation :**

**Organization :**

**Mailing Address :**

Phone (office):  
Phone (home):  
Phone (mobile):

Fax :  
Email 1:  
Email 2:

**Qualifications and Background :**

**Registration Fee :**

a) Enclosed is a crossed draft no. ....dated .....for  
Rs. .... payable to **Course on Earthquake Engineering, I.I.T. Gandhinagar .**

or

b) Bank transfer of Rs ....., with transaction ID ..... dated ....., has  
been done to the account details given below.

Bank: State Bank of India  
Account: 31621193994  
IFS Code: SBIN0011770

or

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

(Signature)

**Please return to:**

Dr. Amit Prashant  
Coordinator for Course on *Earthquake Engg*  
Indian Institute of Technology Gandhinagar  
VGEC Complex, Chandkheda,  
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Fax: 079-23972586;  
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