

International Institute of Information Technology
Earthquake Engineering Research Centre

Student Short Course
on

Earthquake Resistant Design of Buildings

(... a focused course to undergraduate students of Civil Engineering)

03 – 06 July 2018

Objectives of Course

This course focusses on

- Understanding of earthquake design philosophy
- Detailed earthquake resistant design procedure of buildings

Course Contents

- Fundamentals of earthquake engineering
- Design philosophies of IS 456:2000, IS 1893 (Part 1):2016, IS 13920:2016
- Basic structural analysis – Gravity load
- Detailed calculation of earthquake forces on buildings including effect of torsion by
 - Equivalent static method
 - Time history method
 - Response spectrum method
- Design and detailing of structural elements – slabs, beams, columns, foundations & staircase
- Design of shear wall
- Hand-on experience on modelling and design of building in SAP 2000

About EERC

Main reason for the casualties during an earthquake is the collapse of buildings. In order to ensure the construction of safe building infrastructure and to solve some of the issues, IIIT Hyderabad established Earthquake Engineering Research Centre (EERC). Extensive research work is being carried out in the following broad areas

- Seismo-tectonics of Indian Plate
- Estimate of Seismic Hazard
- Collapse Simulation and Damage Assessment
- Earthquake Risk Mitigation through Awareness & Preparedness

For more details, visit <http://eerc.iiit.ac.in/>

Registration

Fee (Including course material, snacks & lunch):

- For Students: 3000/-
- For Employees: 4000/-

Payment of registration fee should be made by demand draft or at par cheque in favour of “IIIT Hyderabad”.

Last Date for Registration: **24th June 2018**

Note: Limited accommodation in hostels is available on first come first serve basis. For making a request, kindly send a mail to the mailing address



About IIIT H

International Institute of Information Technology (IIIT), Hyderabad, is an autonomous, self-supporting research institute established in 1998 with seed support from the Government of Andhra Pradesh. Major goal of IIITH is to impart a uniquely broad and interdisciplinary IT education of the highest academic quality. This is achieved through an integrated curriculum that consists of a highly diverse set of IT courses, interdisciplinary IT research projects, regular interaction with industry, preparation of entrepreneurship skills, and personality development courses. Visit <https://www.iiit.ac.in/>

How to Apply

Step 1: Take a demand draft (DD) or cheque in favour of “IIIT Hyderabad”

Step 2: Use the DD/cheque no. and fill the registration form available on EERC website

Step 3: Send the registration form along with DD/Cheque to the mailing address given below

For Online Registration: Fill the google form available on the website or follow the link given in website and send the DD/Cheque to the mailing address given below.

Course Team

- Neelima Pammi
- Pulkit Velani
- Niharika Talyan
- Aniket Bhalkikar
- Vyas Pammi
- Keerthana Etoori

Under the guidance of R. Pradeep Kumar & Sunitha Palissery

Address for Communication

Earthquake Engineering Research Centre
International Institute of Information Technology
Gachibowli, Hyderabad – 500032, India
Ph: 040-6653 1318, Email: outreach.eerc@gmail.com