

About Roorkee

Situated in the foot hills of the Himalayas, Roorkee is very close to the places of pilgrimage and popular tourist destinations like Haridwar, Rishikesh, Dehradun, Mussorie, etc. Roorkee is located on Amritsar-Howrah main line of Northern Railways and is also connected by New Delhi-Dehradun Shatabdi and Jan Shatabdi Express trains. Roorkee is also very well connected by road to New Delhi (180 km), Chandigarh (160 km), Dehradun (75 km), Haridwar (30 km), etc. The climate at Roorkee ranges from extreme cold during winters (3°C) to very hot during summers (44°C).

Course Objective

To equip the engineers with current knowledge of earthquake resistant design of buildings.

Course Contents

- Engineering seismology
- Seismic zoning map of India
- Earthquake and its characteristics
- Fundamentals of structural dynamics
- Earthquake and vibration effects on buildings
- Identification of seismic damages in RC buildings including structural irregularities
- Seismoresistant building architecture
- Dynamic analysis procedure for buildings based on IS-1893 (Part 1):2002
- Ductility considerations in earthquake resistant design of RC buildings
- Intricacies in design of RC buildings with infill wall, shear wall, and soft storey

- Capacity based design of RC buildings

Faculty

The faculty from Department of Earthquake Engineering will be involved in conducting the course.

Participants

This course is targetted at the teachers of engineering/architecture colleges. The participant should be a full-time permanent faculty member in an AICTE recognized engineering/architecture college with a first-class B.E./B.Tech./B.Arch. in Civil Engineering/Architecture or higher. The eligible participants from AICTE recognized institutions will be entitled to free boarding and lodging at Roorkee in addition to reimbursement of the travel expenses under the National Programme on Earthquake Engineering Education (NPEEE). For more information about the NPEEE, please visit <http://www.nicee.org/npeee/>. The applications should be submitted in the given proforma. A few limited seats are also available for participants of R&D labs and industry on payment basis (@ Rs. 7500.00 per participant, payable in advance through a demand draft in favour of Coordinator, Centre for Continuing Education, IIT Roorkee). The travel, boarding and lodging expenses will have to be borne by the participant, or their parent institution. The total number of participants is limited to 30.

Acommodation

The participants will be provided boarding and lodging facilities in the guest house of the Centre for Continuing Education, Indian Institute of Technology Roorkee.

Correspondence

The application form, duly forwarded by the head of institutions, should be addressed to:

Prof. Vinod Kumar, Coordinator

Continuing Education Centre

Indian Institute of Technology Roorkee

Roorkee-247667. INDIA

Phone: 01332-285648/285227

Fax: 01332-285545/273560

e-mail: vinodfee@iitr.ernet.in

Important Dates

- Last date of receipt of applications at Roorkee: April 25, 2005
- Date of dispatch of offer of admission to the participants: May 01, 2005
- Course begins: May 16, 2005

Proforma for Application: Seismic Design of Reinforced Concrete Buildings

1. Name:
2. Designation:
3. Name of College/institution:
4. Address:
5. Fax:
6. Phone (Office):
7. Phone (Residence):
8. E-mail:
9. Educational Qualifications:
10. Thesis titles (if applicable):
 - M.E./M.Tech.:
 - Ph.D.:
11. Courses taught in last five years:
12. Short term courses attended in last five years:
13. Conferences attended in last five years: ...
14. Earthquake engineering related activities pursued by the participant in last five years:
15. Other activities that show interest in earthquake engineering:

Signature with Date
Name

Recommendation of the Head of the institution:

Signature with date

Name with Official Seal

**Short Term Course
on
Seismic Design of Reinforced Concrete
Buildings
(May 16–21, 2005)**

*Sponsored by: National Programme on
Earthquake Engineering Education*
(<http://www.nicee.org/npeee>)

**Course Coordinators
Prof. Susanta Basu
Dr. Pankaj Agarwal**



Organized by
**Department of Earthquake Engineering
and
Continuing Education Centre
Indian Institute of Technology Roorkee
Roorkee–247667. INDIA**