



**National Programme on Earthquake
Engineering Education**

**Short-Term Course
on**

**EARTHQUAKE RESISTANT DESIGN OF RC BUILDINGS
(July 24-29, 2006 at IIT Roorkee)**

Objective of course: Capacity building for seismic disaster mitigation through Earthquake Resistant Design of Buildings.

Course Contents:

- Introduction to Structural Dynamics: Concepts of Response Spectrum and Modal Analysis
- Performance of RC buildings in past earthquakes, modes of failures and lessons learnt
- General Guidelines and Architectural considerations for Earthquake Resistant Design
- Modelling and Analysis of building structures for earthquake loading – 2D and 3D Modelling of Frames, Frame-shear walls, Infills, Torsional effects, P-Delta effects, Rigid and flexible floor diaphragms.
- IS Codal Provisions on Earthquake Resistant Design
- Role of ductility in earthquake resistance, Ductility of RC components
- Capacity Design concepts for Beams, Columns and Shear walls
- Design and detailing of Beams, Columns, Shear walls and Joints

Target Trainees: Faculty of Engineering Colleges and a few Practicing Engineers.

Registration Fee: There is no registration fee for Faculty of AICTE Approved Engineering Colleges and Travel Expenses (up to AC -II) will be reimbursed.

For Practicing Engineers the registration fee is Rs. 5000.00, payable through Demand Draft in favour of Professor & Head, Continuing Education Center, Payable at Roorkee, which includes boarding and lodging expenses. Travel expenses are to be arranged by the participants, themselves.

Resource Faculty: Faculty of the Department of Engineering Earthquake Engineering, IIT Roorkee.

Application forms can be downloaded from www.nicee.org/npeee. Completed application forms duly forwarded by the Head of Institutions, should reach **“The Professor & Head, Continuing Education Center, IIT, Roorkee - 247667”** before June 30, 2006.

For further details, please contact:

Dr. Yogendra Singh, Assistant Professor, Department of Earthquake Engineering
IIT Roorkee, Roorkee – 247667 Phone: 01332-285534, Fax: 276899

Email: yogenfeq@iitr.ernet.in

Dr. D.K. Paul, Professor, Department of Earthquake Engineering, IIT Roorkee
Roorkee – 247667, Phone: 01332-285522, Fax: 276899

Email: dpaulfeq@iitr.ernet.in