



**National Programme on Earthquake
Engineering Education**

**Short-Term Course
on
SEISMIC EVALUATION AND RETROFIT
(December 19-24, 2005 at IIT Roorkee)**

Objective of course: Capacity building for seismic disaster mitigation through evaluation and retrofiting of existing buildings and lifeline structures.

Course Contents:

- Seismic hazard estimation, Local site effects
- Vulnerability assessment of existing buildings – Rapid Visual Screening, Simplified Vulnerability Assessment and Detailed Vulnerability Assessment
- In-situ evaluation of RC and masonry structures – Methods of testing, Statistical analysis and interpretation of results, Deterioration and life prediction of existing structures
- Modelling and analysis of building structures – IS code method, DCR Method, Non-linear modelling and analysis, Non-linear Static Pushover Method and Displacement Based Design
- Retrofitting materials
- Retrofitting of non-engineered and masonry buildings
- Retrofitting of RC buildings
- Retrofitting of bridges

Target Trainees: Faculty of Engineering Colleges and 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 and a few invited speakers.

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 November 15, 2005.

For further details, please contact:

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