



Department of Civil Engineering,
Indian Institute of Technology Kanpur,
announces under the National Programme on Earthquake Engineering Education (NPEEE)

Short Course on
NONLINEAR SEISMIC ANALYSIS OF STRUCTURES
14-18 October 2006 at IIT Kanpur

Objective

To provide basic knowledge on how to quantify various nonlinear actions in structures during earthquake shaking

Salient Features

- Meant for teachers of engineering colleges and limited number of professional engineers
- On successful completion, a certificate will be issued by the Department of Civil Engineering, IIT Kanpur

Contents

- *Earthquake Resistant Design philosophy – Importance of Nonlinearity*
- *Methods of Nonlinear Analysis*
 - *Static-Monotonic,*
 - *Static-Cyclic,*
 - *Dynamic*
- *Nonlinear Response of Structures due to Earthquake Shaking*
- *Modeling of Nonlinearities on Available Computer Software*

Accommodation

- *Boarding and Lodging:* Boarding and lodging will be available in the Guest House on payment basis subject to availability.

Course Faculty

Professors C. V. R. Murty, Durgesh C. Rai and Sudhir K. Jain

Eligibility

- B.E./B.Tech. degree in Civil Engineering, or its equivalent or higher degree

Course Fee

- *Engineering College Teachers:* The National Programme on Earthquake Engineering Education (NPEEE), an MHRD (GoI) initiative, will cover the fee for full-time teachers of recognized colleges of engineering and architecture. NPEEE will also cover their travel (by up to 3-tier AC Class by train) and boarding/lodging. Colleges are to treat the applicant to be on duty during the period of the course.
- *Professionals Engineers:* The fee for professional engineers is Rs. 7,500/- per person payable in full in advance. The demand draft should be drawn in favour of "Director, IIT Kanpur" and payable at Kanpur.

Interested person may apply on prescribed application form to:

Dr. K. K. Bajpai
Senior Scientific Officer,
Department of Civil Engineering
Indian Institute of Technology Kanpur
Kanpur 208016
Email: kunwar@iitk.ac.in
Tel: (0512) 259 7859
Fax: (0512) 259 7794

Web: http://www.iitk.ac.in/nicee/npeee/IITK_SC_NLSAS_14-18Oct2006.pdf

Website of National Programme on Earthquake Engineering Education (NPEEE): www.nicee.org/npeee

10. Short courses attended in the past five years

<i>Title</i>	<i>College/Institute</i>	<i>Venue</i>

11. Conferences attended in the past five years

<i>Title</i>	<i>Organiser</i>	<i>Venue</i>

12. Earthquake Engineering Related Activities Pursued by the Applicant in Past 5 Years:
(in maximum 300 words; add additional sheet if required)

13. Other activities that show applicant's interest in Earthquake Engineering

Signature of Applicant

Recommendation of the Head of the College/Institute

I hereby certify that the College/Institute nominates the applicant for the Short Course on *Nonlinear Seismic Analysis of structures* being conducted by the Indian Institute of Technology Kanpur under the NPEEE during 14 -18 October 2006. If selected, the applicant will be treated on duty for the said period.

Date and College/Institute Seal

Signature of Head of College/Institute
Name and Designation
