



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](mailto: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](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](http://www.nicee.org/npeee)



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

**Application Form for Teachers**

1. Name: Mr. /Ms.
2. Designation:
3. Name of College/Institution:
4. Address of Applicant:
  
5. Phone (Office): Phone (Home):
6. Email: Fax:
7. Qualifications:

Degree	University	Year	Specialisation	Marks
Bachelors				
Masters				
Doctoral				

8. Theses titles (if applicable)  
 M.E./M.Tech.:  
 Ph.D.:
9. Courses taught in the past five years

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

---



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

**Application Form for Professional Engineers**

1. Name:
2. Designation:
3. Name of Organisation:
4. Address of Applicant:
5. Phone (Office): Phone (Home):
6. Email: Fax:
7. Qualifications and Background:
8. Registration Fee :
  - a) Enclosed is a crossed draft no. ....dated .....for Rs. .... in the name of **Director, IIT Kanpur** payable at **Kanpur**.

or
  - b) I shall send the registration fee by ..... (*please indicate date*).

*Signature of Applicant*

**Interested candidates 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](mailto:kunwar@iitk.ac.in)

Tel: (0512) 259 7859

Fax: (0512) 259 7794