



**National Programme on Earthquake  
Engineering Education**

**Short-Term Course**

*on*

**Observational Seismology**

*(January 16-21, 2007 at IIT Roorkee)*

**Objective of course:** To learn instrumentation and data acquisition, processing and interpretation techniques for seismological data

**Course Contents:**

- Introduction to Seismology and Seismological instrumentation
- Broadband Seismometry
- Strong motion arrays and data processing
- Background noise surveys and selection of sites
- Microearthquake networks
- Hypocenter location techniques
- Quantification of earthquake size and Source parameter estimation
- Fault plane solutions and Focal mechanism studies
- Nomenclature of seismic phases and Internal Structure of earth
- Interpretation of seismograms
- Engineering applications of seismological networks
- Compilation of data, processing and interpretation

**Target Trainees:** Faculty of Engineering Colleges and a few practicing Engineers/Seismologists.

**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/Seismologists 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 Earthquake Engineering, IIT Roorkee.

Application forms can be downloaded from [www.nicee.org/npeee](http://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 August 15, 2006.

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

For further details, please contact:

Dr. M. L. Sharma, Associate Professor, Department of Earthquake Engineering  
IIT Roorkee, Roorkee - 247667 Phone: 01332-285536, Fax: 276899  
Email: [mukutfeq@iitr.ernet.in](mailto:mukutfeq@iitr.ernet.in)

Dr. S. C. Gupta, Scientific Officer, Department of Earthquake Engineering, IIT Roorkee  
Roorkee - 247667, Phone: 01332-285592, Fax: 276899  
Email: [scgeqfeq@iitr.ernet.in](mailto:scgeqfeq@iitr.ernet.in)