



**National Programme on Earthquake
Engineering Education**

**Short-Term Course
on**

**STRONG MOTION INSTRUMENTS: PROCESSING AND USE OF
ITS DATA**

(August 21 – August 26, 2006 at IIT Roorkee)

Objective of Course: Motivate new generation of teachers, scientists and engineers and impart them knowledge on theoretical and practical aspects on all facets of strong motion programme. After attending this course, the participants will be expected to have operational background of strong motion instruments and capability of interpretation, processing and analysis of strong motion data.

Course Contents: Fundamentals of vibration and theory of seismic pickups; Force Balance accelerometers; Signal conditioning and anti-aliasing filter; Numbering system and AD Conversion; Basic structure of strong motion accelerograph; Testing and Installation Procedure; Software of different makes of strong motion instruments; Hands-on on operation of strong motion instruments; Software on correction schemes for processing of strong motion data; Hands-on on correction schemes; Hands-on on dissemination of strong motion data --- Atlas of strong motion data of India, Various web sites for strong motion data; Analysis of strong motion records; Various aspects on instrumentation of dams, multistoried buildings and other structures.

Target Trainees: Faculty of Engineering Colleges and Scientists of Nuclear, Thermal and River Valley Power Projects.

Registration Fee: There is no registration fee for Faculty of AICTE Approved Engineering Colleges and Travel Expenses (up to AC -II) will be reimbursed. They will also be provided free boarding and lodging in one of the institute's guest house

For participants other than faculty of AICTE approved Engineering Colleges 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 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 July 7, 2006.

For further details, please contact:

Dr. Ashok Kumar, Associate Professor, Department of Earthquake Engineering
IIT Roorkee, Roorkee – 247667 Phone: 01332-285527, Fax: 276899

Email: akmeqfeq@iitr.ernet.in