

SPONSORSHIP

Mr./Mrs./Dr. _____
is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course at IIT Guwahati during 2nd - 6th December 2006, if selected.

Date: _____
Signature of Sponsoring Authority
Designation: _____
Official Seal: _____

For applicants from Industries and Government Departments:

DD No. _____ Date: _____

Bank: _____

Amount: _____

Signature of the Applicant

The duly sponsored application form should be mailed to:

Dr.R.Ayothiraman, Course Coordinator
NPEEE Short Term Course (SSSI – 2006)
Department of Civil Engineering
Indian Institute of Technology Guwahati
Guwahati – 781 039, Assam.

Ph. No.: 0361 258 2420 (O), 0361 258 4420 (R)

Fax No.: 0361 269 0762

Email: raman@iitg.ernet.in

ELIGIBILITY

The course is open to teachers of Engineering Colleges approved by AICTE and having a degree in Civil Engineering. *However, preference will be given to teachers dealing with Geotechnical Engineering related subjects and have PG degree in Geotechnical Engineering. No course fee* is charged for participants sponsored by AICTE approved institutions.

Participants from Industry and Government Departments are eligible, provided they meet their T.A. and D.A. and pay a course fee @ Rs. 4000/-. The payment is to be made by demand draft drawn on any Nationalized Bank in favour of **IIT Guwahati, payable at Guwahati.**

BOARDING AND LODGING

Boarding and lodging facilities will be provided for the selected candidates from AICTE approved institutions in one of the student's hostels of the institute. However, subject to the availability, limited number of rooms available in the Institute Guest House will be provided on first-come-first-served basis.

IMPORTANT DATES

The last date for the receipt of duly sponsored applications: **25. 10. 2006**

Intimation of Selection: **01. 11. 2006**

N.B. Interested candidates may send advance copy of the application duly countersigned by the Head of the Department/Controlling Officer (for sponsored candidate) to avoid procedural delay.

SHORT TERM COURSE

ON

Seismic Soil-Structure Interaction (SSSI – 2006)

Under



December 2 – 6, 2006

Sponsored by
Ministry of Human Resource Development
Government of India

Coordinator
Dr.R.Ayothiraman



Department of Civil Engineering
Indian Institute of Technology Guwahati
Guwahati - 781 039.

BACKGROUND

The National Programme on Earthquake Engineering Education (NPEEE) supported by the Ministry of Human Resource Development (MHRD) Government of India, aims at developing better teaching capabilities within the country in the crucial area of Earthquake Engineering. Our country is prone to unacceptably large earthquake risk that needs to be reduced by a variety of means. However, in any endeavour towards seismic risk reduction, the lack of adequate quality and quantity of manpower is a major bottleneck in our country. NPEEE is meant for developing capacity within the engineering and architectural institutions of the country in this subject. The main vehicle of this program is the *development of curriculum and training of the teachers for the same*.

OBJECTIVE

The course aims at giving a broad perspective of the concepts and theories of *Seismic Soil-Structure Interaction* (SSSI) and to discuss the key issues involved in the methods of SSSI analysis for the design of various geotechnical structures in earthquake-prone areas.

CONTENTS

- Engineering Seismology
- Strong Ground Motion
- Introduction to Seismic Soil-Structure Interaction
- Seismic Analysis of shallow foundations
- Seismic Analysis of single piles and pile groups
- Seismic Analysis of Slope Stability
- Seismic Analysis of Retaining Walls
- Seismic Analysis of Lifeline Structures
- Seismic Analysis of Gravity Dams
- Seismic Analysis of Embankments
- Seismic SSI Analysis in Liquefiable Soils
- Finite Element Method in SSSI analysis
- Reliability of Geotechnical Structures

FACULTY

The course faculty will be experts involved in teaching, research and consultancy in the area of Geotechnical Earthquake Engineering and Soil-Structure Interaction. The core faculty will be from IIT Guwahati and experts from different reputed institutions and organizations will be invited to give lectures on selected topics related to the theme of the course.

ABOUT IITG CAMPUS

IIT Guwahati campus is spread over a sprawling 285 hectares plot of land on the north bank of the river Brahmaputra around 20 km from the heart of the city. With the majestic Brahmaputra on one side, and with hills and vast open spaces on others, the campus provides an ideal setting for learning. Guwahati city (situated at 91^o 44' E longitude & 26^o 10' N latitude) is gateway to beautiful NE region of the country and linked with all major cities by rail, road and air. The scenic panorama of the valley, the remarkable architecture, the local points of art and culture have made the city to one of the most popular destinations in the country. Guwahati has a temperate climate with temperature varying between 7^oC to 37^oC. Summer span is usually from May to September. Buses, auto-rickshaws and taxis are available from Guwahati City to the IIT Guwahati Campus.

FINANCIAL ASSISTANCE

Participant sponsored by AICTE approved institutions will be eligible for single **Third AC (Non-Rajdhani)** to and fro railways fare, free lodging and boarding at **IITG Guest House** (Non AC and sharing basis) during the course period, **subject to availability**. **Participants attending the course in full only will be eligible for TA. Participants are required to produce ticket(s) in original for reimbursement.**

NPEEE Short Term Course on Seismic Soil-Structure Interaction (SSSI – 2006)

December 2 – 6, 2006

Application Form

1. **Name (block letter):**
2. **Designation:**
3. **Organisation:**
4. **Communication Address:**

Pin code:

Fax No.

E-mail:

Ph. No.:

Mobile:

5. **Highest Academic Qualification:**
6. **Specialization:**
7. **Experience (in years):**
(a) Teaching: (b) Industrial:
8. **Courses taught (last five years):**
9. **May attach a separate enclosure on Earthquake Engineering related activities pursued in past 5 years (in maximum 300 words).**

Place:

Date:

Signature of the applicant