

# INDIAN INSTITUTE OF TECHNOLOGY KANPUR

## Short Course on

# **Seismic Design of Buried Pipelines**

To be conducted at **IIT Kanpur** during **3-7 April 2006**

## **Course Objectives**

The aim of the course is to provide the participants an overview on seismic design procedures for buried pipelines. At the end of the course, the participants are expected to:

- Have an overall understanding of the seismic design concepts, procedures for buried pipelines to enable them to plan and direct the construction activity appropriately.
- Understand the methodology of seismic design to be able to execute a proper design.
- Have a clear appreciation of how seismic design methodology for pipelines is very different from that for other common structures like buildings, bridges, etc.

## **Participants**

The course is designed for

- Engineers engaged in planning, design, or construction of pipelines.
- Senior professionals responsible for directing these activities.

## **Course Contents**

- Elements of Engineering Seismology
- Indian Seismicity; Earthquake History
- Behaviour of Pipelines in Past Earthquakes in India and Abroad
- Different Failure Modes of Pipeline
- Quantification of Seismic Hazards Related to Pipeline Design
- Soil Liquefaction
- Seismic Design Provisions in Existing Standards
- Analysis of Pipelines for Various Seismic Hazards
- Seismic Design Methodology

- Seismic Retrofitting of Pipelines

## **Course Faculty**

The course will be conducted by the faculty members of the Department of Civil Engineering, IIT Kanpur.

## **Certificate**

Participants who successfully complete the course will be awarded a certificate.

## **Venue**

The course will be conducted at IIT Kanpur.

## **Registration**

The course fee is Rs. 12000/- (Rupees Twelve Thousand Only) per participant. It includes course material, lunch, and tea breaks. The fee is payable in advance by a crossed draft in favour of *Course on Seismic Design, IIT Kanpur*. Limited twin-sharing accommodation is available on first-come first-served basis at IITK Guest House on payment. Interested persons should send the enclosed Registration Form to:

Ms. Snehal Kaushik  
Organiser, Course on Seismic Design of Buried Pipelines  
Department of Civil Engineering  
Indian Institute of Technology Kanpur,  
Kanpur - 208 016  
Phone (0512) 2597247,  
Fax (0512) 2597794; 2597395  
email [snehal@iitk.ac.in](mailto:snehal@iitk.ac.in)  
Web: <http://www.nicee.org/Pipelines.pdf>

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Short Course on

**Seismic Design of Buried Pipelines**

To be conducted at IIT Kanpur during 3-7 April, 2006

**Registration Form**

Name :

Designation :

Organization :

Mailing Address :

Phone (office):

Fax :

Phone (home):

Email :

**Qualifications and Background :**

**Registration Fee :**

a) Enclosed is a crossed draft no. ....dated .....for  
Rs. .... payable to **Course on Seismic Design, I.I.T. Kanpur.**

or

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

(Signature)

**Please return to :**

Ms. Snehal Kaushik

Organiser, Course on Seismic Design of Buried Pipelines

Department of Civil Engineering

Indian Institute of Technology

Kanpur - 208 016

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