#### **Registration Form**

Name: Mr. <sup>/</sup> Ms. <sup>/</sup> Dr	
Designation:	
Organization:	
Phone:	
Address for Comm	nunication:
•••••	
E <sup>-</sup> mail:	
Fax:	
D.D. Details: I enclose herewith	the Demand
D.D. no	
dated	for
Rs	payable to IIT
Indore.	
Note: D.D <sup>/</sup> Cheque coordinator	must be returned to the
Date:	Signature

#### **Registration Fee**

The course fee is Rs. 2500/- (Two thousand five hundred only) per participant for professionals and Rs. 2000 (Two thousand rupees only) for students. The fee is payable in advance by a crossed draft in favour of IIT Indore, payable at Indore. The entry is placed in hybrid mode (Participants please send the details to the coordinator)

MODE OF PAYMENT: Through DD drawn in favour of "Registrar, IIT Indore" payable at Indore, or through online payment/bank transfer (Bank: State Bank of India; Branch: Khandwa Road, Indore; Account Number: 31702151577; IFS Code: SBIN0011779)

#### **Address for Correspondence**

Dr. Neelima Satyam (Coordinator)
Professor
Department of Civil Engineering
Indian Institute of Technology Indore
Indore, Madhya Pradesh
Ph: + 91-7014635494/ +91-8817109170
Email: outreach.ce@iiti.ac.in

# Short Course on GEOTECHNICAL ASPECTS OF EARTHQUAKE ENGINEERING

21-23 July 2022

(Hybrid mode)



**Organized By** 



Department of Civil Engineering Indian Institute of Technology Indore Indore, M.P.

#### **About Course**

India has experienced the most disastrous earthquake-like Assam (M=8.7), Kaogra 1905 (M=8.6), Bihar-Nepal 1934 (M=8.4), Assam-Tibet 195(M=8.7), Uttarkashi 1991 (M=6.5), Latur 1993 (M=6.4), Jabalpur 1997 (M=6.0), Chamoli 1993 (M=6.8), Bhuj 201 (M=7.6), Kashmir 2005 (M=7.4) and Sikkim 2011 (M=6.9), Kashmir 2015 (M=5.7), Bharatpur 2015 (M=7.3), Tripura 2017 (M=5.7), North-east 2018 (M=5.5), Mirpur 2019- (M=4.7), Jhelum Punjab 2019 (M=5.6) in the recent past

The large and rapidly growing urban seismic risk, particularly in developing countries like India is a problem that needs to be quickly solved. Urbanization is rapidly increasing in every city in India. Huge infrastructure developmental plans have been laid in all these cities which are demanding trained structural engineers/consultants in a large number. It is observed that a large concentration of damage in specific areas during an earthquake is due to site-dependent factors related to surface geological conditions and local soil altering seismic motion. To reduce the gap and transfer the knowledge many workshops, seminars, short courses and technical lectures were conducted by IIT Indore, to bring awareness amongst the professional engineers.

The course is designed to have a broader review on the various aspects of Geotechnical Engineering interlinked with Earthquake Engineering. Each of these lectures during this short course addresses specific issues from the beginning to end (from engineering seismology to Earthquake resistant design). The course lectures cover both fundamentals and applications including hands-on experience in seismic design of sub-structures.

## **About IIT Indore**

IIT Indore located at Simrol, Khandwa Road, Madhya Pradesh, is one of the eight new Indian Institutes of Technology (IIT) established by the Ministry of Human Resource Development (MHRD), Government of India in 2008-09. Recently IIT Indore has made a new entry and has secured the 396th rank in the QS World University Rankings 2023. For more details visit: www.iiti.ac.in

### About Department of Civil Engineering

The Department of Civil Engineering was started in 2016. The faculty members of the Department are well equipped to conduct high-quality research programs in various fields of civil engineering, and also engaged in interdisciplinary research activities. Department is committed to high-quality research. Interested people are encouraged to contact the concerned faculty for collaborative research. The department is actively engaged in organizing various research activities. More details can be found at: www.ce.iiti.ac.in

### **Important Dates**

Last Date for receiving filled registration: July 14, 2022

Notification of acceptance: July 17, 2022

#### Who Should Participate?

This short course is planned for design and construction engineers, project managers, faculty members, research scholars and students.

#### **Course Faculty**

Dr. Neelima Satyam D (Course Coordinator) Professor Department of Civil Engineering, IIT Indore

The speakers from academia and industry will also share their knowledge and experience in the field of geotechnical earthquake engineering.

### **Lecture Topic**

#### Day 1:

Lecture-1: Overview of Earthquake Engineering Lecture-2: Dynamic Soil Properties Lecture-3: Geotechnical Testing Methods Tutorial 1: Demo on Geophysical Testing **Day 2:** Lecture – 4: Seismic Hazard Analysis Lecture 5: Ground Response Analysis Lecture 6: Local Site Effect Tutorial 2: Detailed Ground Response Analysis **Daye 3:** Lecture-7: Liquefaction Hazard Assessment Lecture-8: Seismic Design of shallow and Deep Foundation. Lecture-9: Seismic Design of Retaining Walls Tutorial 3: Assessment of Liquefaction Potential.

पौद्योगिकी संरक्ष	
रिकामा Indore II ज्ञानम् सर्वजनहिताय ॥	

## INDIAN INSTITUTE OF TECHNOLOGY INDORE Registration form for the Short Course Geotechnical Aspects of Earthquake Engineering July 21-23, 2022

Name of the Person:			
Designation:			
Academic Qualification:			
Name of Institution / Organization:			
Address for Communication:			
Phone:			
Email:			
Payment mode: [ ] Demand Draft [ ] Online Paymen	t		
Payment Details:			
Demand Draft /UTR No	Date:		
Name of Bank	Branch		
Demand Draft Details: To be paid in favour of "The Registrar, IIT Indore" amount drawn on (Bank) Payable at Indore			
	Data		
Place:	Date:		
Signature			
Approval / Permission from Institution			

I/We approve the above application as a participant for the above National Seminar, which is being organized by IIT Indore, Indore from 21<sup>st</sup> to 23<sup>rd</sup> July 2022.

Authorized Signatory