Registration Form

Name:
Mr./Ms./Dr.....

Designation: .....

Organization: …….....

Phone:.....

Address for Communication:

.....

.....

E-mail:.....

Fax:.....

D.D. Details:
I enclose herewith the Demand

D.D. no.....

dated. ..... for

Rs. .....payable to IIT

Indore.

Note: D.D. Cheque must be returned to the coordinator

Date: Signature

Registration Fee

The course fee is ₹ 3,000/- + GST (Rupees Three Thousand only plus GST) per participant for professionals and ₹ 2,500/- + GST (Rupees Two Thousand Five Hundred only plus GST) per participant for students. The fee must be paid in advance through a crossed demand draft drawn in favour of IIT Indore, payable at Indore.
Participants are requested to send their registration and payment details to the course coordinator.

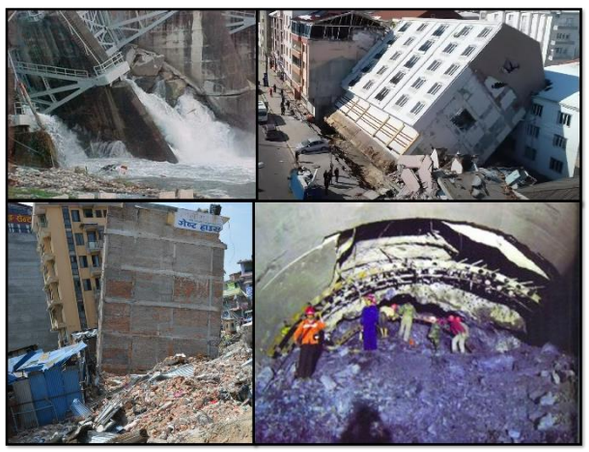
MODE OF PAYMENT: Through DD drawn in favour of "Registrar, IIT Indore" payable at Indore, or through online payment/bank transfer (Bank: State Bank of India; Branch: Khandwa Road, Indore; Account Number: 31702151577; IFS Code: SBIN0011779)

Address for Correspondence

Dr. Neelima Satyam (Convener)
Institute Chair Professor and Former Head
&
Dr. Priyansh Singh (Co-convener)
Assistant Professor
Department of Civil Engineering
Indian Institute of Technology Indore
Indore, Madhya Pradesh
Ph: + 91-8827567749/ +91-9458361307
Email: geohazardslabiitindore@gmail.com

Short Course on GEOTECHNICAL ASPECTS OF EARTHQUAKE ENGINEERING

18- 20 March 2026



Organized By **Supported By**

Department of Civil Engineering
Indian Institute of Technology Indore
Indore, Madhya Pradesh

About Course

India has experienced several devastating earthquakes in the past, including the Assam earthquake (1897, M 8.7), Kangra earthquake (1905, M 8.6), Bihar–Nepal earthquake (1934, M 8.4), Assam–Tibet earthquake (1950, M 8.7), Uttarkashi (1991, M 6.5), Latur (1993, M 6.4), Chamoli (1999, M 6.8), Jabalpur (1997, M 6.0), Bhuj (2001, M 7.6), Kashmir (2005, M 7.4), Sikkim (2011, M 6.9), Kashmir (2015, M 5.7), Bharatpur (2015, M 7.3), Tripura (2017, M 5.7), North-East India (2018, M 5.5), Mirpur (2019, M 4.7), and Jhelum, Punjab (2019, M 5.6). These events highlight the high seismic vulnerability of several regions across the country.

Rapid urbanization and large-scale infrastructure development have significantly increased **urban seismic risk**, particularly in developing countries such as India. Almost every major Indian city is undergoing extensive infrastructure expansion, which has created a growing demand for **well-trained structural and geotechnical engineers** capable of addressing earthquake-related challenges. Observations from past earthquakes indicate that severe damage is often concentrated in specific locations due to **site-dependent effects**, such as surface geology, soil conditions, and local site response, which can significantly modify seismic ground motion.

Recognizing this critical need, **IIT Indore has actively organized workshops, seminars, short courses, and technical lectures** to bridge the knowledge gap and enhance awareness among practicing engineers, researchers, and professionals.

The present course is designed to provide a **comprehensive overview of geotechnical engineering aspects linked with earthquake engineering**. The lectures systematically address key issues ranging from **engineering seismology to earthquake-resistant design**, covering both fundamental concepts and practical applications. The course also includes **hands-on training and case-based discussions** focused on the seismic design of substructures, enabling participants to gain practical insights applicable to real-world engineering problems.

About IIT Indore

IIT Indore, located in Madhya Pradesh, is an Institute of National Importance established by the Ministry of Education (formerly MHRD), GoI. The institute's campus spans more than 500 acres and is located approximately 25 km from Indore city. Over the years, IIT Indore has rapidly developed into a center of academic excellence, with its strong teaching and research performance recognized nationally. In the **NIRF Rankings 2025**, IIT Indore secured the **12th position in the Engineering category**, underscoring its growing national prominence.

For more details, visit: https://www.iiti.ac.in/

About the Department of Civil Engineering

The Department of Civil Engineering, established in 2016, is committed to excellence in teaching and high-quality research. The faculty members possess strong expertise across diverse areas of civil engineering and actively engage in interdisciplinary research initiatives. The department places a strong emphasis on impactful and collaborative research, fostering an environment that encourages innovation and knowledge exchange. Researchers and institutions interested in collaborative projects are welcome to contact the relevant faculty members. In addition, the department regularly organizes seminars, workshops, and other research-oriented activities. Further details are available at https://ce.iiti.ac.in/

Important Dates

Last date for receipt of completed registrations: March 11, 2026

Notification of acceptance: March 14, 2026

Who Should Participate?

This short course is intended for **design and construction engineers**, **project managers**, **faculty members**, **research scholars**, and **students** who are involved in or interested in geotechnical and earthquake engineering applications.

Course Faculty

Dr. Neelima Satyam D (Course Coordinator)
Chair Professor and Former Head
Department of Civil Engineering
Indian Institute of Technology Indore

Academic and industry speakers will also share their knowledge and experience in 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 for foundations, tunnels, dams, and NPPs, etc.
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.

Indian Institute of Technology Indore
Registration form for the Short Course
Geotechnical Aspects of Earthquake Engineering
March 18-20, 2026

Name of the Person: …….

Designation: …….

Academic Qualification: …….

Name of Institution / Organization: …….

Address for Communication: …….

Phone: …….

Email: ……. …….

Payment mode: [ ] Demand Draft [ ] Online Payment

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

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 18th to 20th March 2026.

Authorized Signatory