

ONLINE SHORT TERM COURSE

on

“Mountain Disaster Management: Mitigating Landslide and Earthquake Risks”

April 5th - 9th, 2024



COORDINATORS

Dr. Manendra Singh
Dr. Swaraj Chowdhury



Organized By

**Department of Civil Engineering
National Institute of Technology
Hamirpur**

Hamirpur, Himachal Pradesh – 177005, India

www.nith.ac.in

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Director, NIT Hamirpur

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HoD, Dept. of Civil Engg., NIT Hamirpur

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Dr. Manendra Singh
Dr. Swaraj Chowdhury

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INTRODUCTION

This online workshop is designed to address the critical need for updated knowledge and practical solutions in earthquake and landslide disaster prevention.

Both earthquakes and landslides stand as prevalent natural hazards, causing significant loss of life and property damage. This workshop is a pivotal initiative, offering participants valuable insights to effectively mitigate earthquake disasters and understand the dynamics of landslides, including their inventories and susceptibility models. It will also emphasize the importance of public sensitization and preparedness for both pre and post-disaster scenarios. Through theoretical learning, case studies, and demonstrated simulations, this online course offers a unique opportunity to enhance participants' capacity in addressing the specific challenges of earthquake and landslide disaster management.

OBJECTIVES

The workshop aims to:

- Provide earthquake engineering fundamentals
- Deepen understanding of landslide dynamics
- Familiarize participants with recent research updates and standard codes for earthquake-resistant structures and landslide risk reduction
- Enhance public disaster preparedness in earthquake and landslide scenarios

CONTENTS

Introduction to Mountain Hazards and Engineering Seismology
Landslide Dynamics and Mechanisms
Landslide Inventories and Mapping
Geotechnical Earthquake Engineering
Earthquake Load Analysis and Design
Landslide and Earthquake Disaster Management

ABOUT INSTITUTE

National Institute of Technology Hamirpur, established on August 7, 1986, was initially known as Regional Engineering College. On June 26, 2002, it gained Deemed University status and was upgraded to the National Institute of Technology. Recognized as an institute of national importance by the National Institute of Technology Act 2007, it received presidential approval on June 5, 2007.

The Department of Civil Engineering is one of the oldest functioning Departments of the institute since its inception. The Department has been imparting quality education to students to meet real-world challenges while addressing social and human needs. The Department is Offering a spectrum of programs, including B.Tech in Civil Engineering, M.Tech in Geotechnical, Structural, Water Resources, Environment, and Transportation Engineering, as well as Ph.D. programs in various specializations.

Beyond its academic excellence, NIT Hamirpur boasts an alluring campus adorned with lush greenery, nestled against the awe-inspiring backdrop of the majestic Himalayas. The institute takes pride in its eco-friendly initiatives, offering a harmonious blend of modern infrastructure and natural beauty. Students and visitors enjoy a serene and inspiring environment conducive to academic growth and personal development.

ELIGIBILITY

This program is open to industry personnels, faculty members, scientists, research scholars, postgraduate and undergraduate students, government officials engaged in disaster management, engineers in various state and central government roles.

RESOURCE PERSONS (TENTATIVE)

Prof. Anbazhagan P, IISc Bangalore
Prof. Chyan-Deng Jan, NCKU, Taiwan
Prof. Hsiao-Wen Wang, NCKU Taiwan
Prof. Priyanka Ghosh, IIT Kanpur
Prof. S Roshankhah, University of Utah, USA
Dr. Hari Kumar, Geohazards International
Prof. (Dr) Sreevalsa Kolathayar, NIT Surathkal
Prof. (Dr) Abhishek Kr. Sharma, IIT Guwahati
Dr. Pinom Ering, IIT Bombay
Prof. Ravi Kumar Sharma, NIT Hamirpur
Prof. R.K. Dutta, NIT Hamirpur
Dr. Sarat Kr Das, Tripura Disaster Management Authority
Prof. (Dr) Hemant Kr. Vinayak, NIT Hamirpur
Dr. Bhardwaj Pandit, IIT BHU
Prof. (Dr) Chander Prakash, NIT Hamirpur
Dr. Kunjari Mog, NIT Hamirpur

IMPORTANT DATES

Last Date of Online Registration: March 30, 2024
Date of Confirmation: March 31, 2024
e-STC Duration: April 5 - 9, 2024

e-REGISTRATION FEE

Registration Fee: Through SBI Collect
Students/ Research Scholars: Rs. 200/-
Participants from Academia / R&D Labs: Rs. 500/-
Participants from Industry: Rs. 1000/-

ADDRESS FOR COMMUNICATION

Dr. Kunjari Mog / Dr. Swaraj Chowdhury
Dept. of Civil Engineering
National Institute of Technology Hamirpur
Hamirpur, Himachal Pradesh 177005
Email: kunjari@nith.ac.in / swaraj@nith.ac.in
Mob: 9148660561/ 7054259045

HOW TO APPLY

To complete the registration process, interested candidates are required to submit the nonrefundable registration fee using the SBI collect platform. Follow the steps below:

a. Visit the SBI collect website and select "Himachal Pradesh" as the state of the Institution. Specify the type of Institution as an educational institute.

b. From the list of Institutions, opt for "NIT Hamirpur" as the Name of the Institution. Choose the payment category as "WORKSHOP FDP STC CONFERENCE."

<https://www.onlinesbi.sbi/sbicollect/>

c. Generate the payment slip and attach it with the registration form, which is available at the following link:

https://docs.google.com/forms/d/1TV_nW8AVA4ER8PUkJEul6JU85k9F6kI904Hi_y5qsk/edit

Notes:

Applications will be accepted on a first-come, first-served basis.

Venue: The online course will be conducted through Google Meet. The link for the online course will be shared via email later.

e-CERTIFICATION

E-certificates will be provided to the participants, with at least 80% attendance, upon successful completion of the program.