

SHORT TERM COURSE

on

“Current Ground Improvement Practices in India: A Research & Industrial Advancement”

July 22nd - 26th, 2024



CONVENER

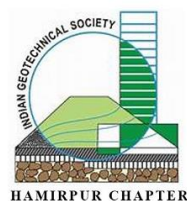
Dr. Meghna Sharma

COORDINATORS

Dr. Manendra Singh

Dr. Swaraj Chowdhury

Dr. Kunjari Mog



Organized By

Department of Civil Engineering
National Institute of Technology Hamirpur
Hamirpur-177005 (H.P.)

&

Indian Geotechnical Society

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INTRODUCTION

This offline workshop is designed to address the critical need for updated knowledge and a practical approach to recent advancements in ground improvement techniques (GIT).

In construction, ground improvement works are often required to limit the settlement of structures, increase the stiffness of natural soils, or mitigate natural hazards, i.e., liquefaction and landslides during seismic events. This workshop is a pivotal initiative, offering participants valuable insights into field practices for ground improvement in India.

It will also emphasize the importance of public sensitization and preparedness for both pre and post-ground improvement scenarios. Through theoretical learning, case studies, and demonstrated simulations, this course offers a unique opportunity to enhance participants' capacity to address specific research updates and industrial advancement in ground improvement practices in India.

OBJECTIVES

The workshop aims to:

- Provide an overview of GIT usually adopted in the field
- Deepen understanding of methods of GIT
- Familiarize participants with recent research updates and industrial advancements in soil stabilization
- Enhance public disaster preparedness in low-bearing capacity soils and earthquake-prone areas.

CONTENTS

Recent Trends in GIT
GIT used in major projects in India
Expansive Soil Stabilization Techniques
Sustainable Ground Improvement Method
Nature-based and Nature-inspired Solutions

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.

ELIGIBILITY

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

RESOURCE PERSONS (TENTATIVE)

Prof. K. S. Rao, Emeritus Professor, IIT Delhi
Prof. Deepankar Choudhury, IIT Bombay
Prof. Neelima Satyam, IIT Indore
Mr. Vinod Kumar Mauriya, NTPC
Mr. Saurabh Rajpoot, Maccaferri India
Dr. J. S. Yadav, NIT Kuruskhetra
Prof. Ravi Kumar Sharma, NIT Hamirpur
Prof. R.K. Dutta, NIT Hamirpur
Dr. Manendra Singh, NIT Hamirpur
Dr. Meghna Sharma, NIT Hamirpur
Dr. Kunjari Mog, NIT Hamirpur
Dr. Swaraj Chowdhury, NIT Hamirpur

IMPORTANT DATES

Last Date of Online Registration: July 15, 2024
STC Duration: July 22 - 26, 2024

REGISTRATION FEE

Registration Fee: Through SBI Collect
Students/ Research Scholars: Rs. 1000/-
Participants from Academia / R&D Labs: Rs. 2000/-
Participants from Industry: Rs. 4000/-
* Accommodation facility is available on the NIT Hamirpur campus however Accommodation and food charges are borne by participants separately.
*Lunch may be provided by organizer.

ADDRESS FOR COMMUNICATION

Dr. Meghna Sharma / Dr. Manendra Singh
Dept. of Civil Engineering
National Institute of Technology Hamirpur
Hamirpur, Himachal Pradesh 177005
Email: meghnas@nith.ac.in / manendra@nith.ac.in
Mob: 9785121383/ 78955208814

HOW TO APPLY

1. Candidates are required to deposit the nonrefundable registration (as given above) fee using the SBI collect platform. The steps for submitting the fee are given 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/>

(Do not use any special character during payment)

2. The accommodation (if required) charges are as follows:

a. Single occupancy room for 5 days: 1500 Rs.
b. Double occupancy room for 5 days: 750 Rs.
Payment should be done according to the occupancy requirement.

Kindly make the payment on following account details:

Account Holder's Name: **Meghna Sharma**

Account Number: **262601501159**

Bank Name: **ICICI Bank**

Branch Name: **Mansarovar, Jaipur**

IFSC: **ICIC0006771**

Prior booking of accommodation is mandatory to avoid any inconvenience after arrival.

3. After payment, candidates are required to fill out the Google form which is available at the following link:

<https://forms.gle/GFdWtBazQPaxUXPV9>

Notes:

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

Venue: Seminar Hall, Department of Civil Engineering, NIT Hamirpur.

CERTIFICATION

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

Our Speakers



Prof. K. S. Rao,
Emeritus Professor, IIT
Delhi and Director, KSR
Geotechnical Testing
and Research Solutions
Pvt. Ltd



Mr. Saurabh Rajpoot,
Technical Lead- Geosynthetic,
Maccaferri India



Dr. Manendra Singh,
Assistant Professor, Dept. of
Civil Engineering, NIT
Hamirpur



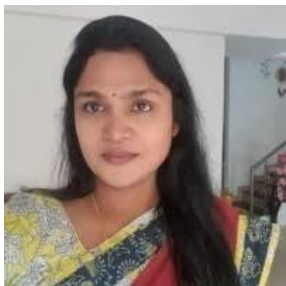
**Prof.
Deepankar Choudhury,**
T. Kant Chair, Dept. of
Civil Engineering, IIT
Bombay



**Prof. Ravi Kumar
Sharma,** Professor, Dept.
of Civil Engineering, NIT
Hamirpur



Dr. Meghna Sharma, Assistant
Professor, Dept. of Civil
Engineering, NIT Hamirpur



Prof. Neelima Satyam,
Professor, Dept. of
Civil Engineering, IIT
Indore



Prof. R.K. Dutta,
Professor, Dept. of
Civil Engineering, NIT
Hamirpur



Dr. Kunjari Mog, Assistant
Professor, Dept. of Civil
Engineering, NIT Hamirpur



**Mr.
Vinod Kumar Mauriya,**
Dy. General Manager
(PE-Civil), NTPC-Govt
of India E/P CC EOC,
Hyderabad



**Dr. Jitendra Singh
Yadav,** Assistant
Professor, Dept. of Civil
Engineering, NIT
Kurukshetra



Dr. Swaraj Chowdhury,
Assistant Professor, Dept. of
Civil Engineering, NIT
Hamirpur