



**DISCIPLINE OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR
PALAJ, GANDHINAGAR 382355**

**Amit Prashant
Professor**

November 14, 2022

Subject: Short Course on **Geotechnical Investigation for Structural Engineering** to be held at **IIT Gandhinagar** during **18th – 21st January, 2023**

Dear Sir:

I enclose herewith a brochure for the above course. Since the insight to geotechnical investigation plays an extremely important role in safe and economical design of structures, we believe that this course may prove very useful to engineers interested in design and construction of buildings and other infrastructures.

In the past, the course instructors have been very successfully conducted numerous training courses on such topics for professional engineers. All the courses were very much appreciated by the participants.

We therefore suggest that you consider sponsoring some of your engineers to this course.

Thanking you,

Yours sincerely,

Amit Prashant

Encl: Brochure of the short course



Indian Institute of Technology Gandhinagar

Short Course on

Geotechnical Investigation for Structural Engineering

to be conducted at Gandhinagar during 18th – 21st January, 2023

Course Objectives

The aim of the course is to abreast the participants A) with fundamentals and contemporary topics on expectations from Geotechnical Investigations for design of structures. B) International best practices. At the end of the course, the participants are expected to:

- Have an overall understanding about guidelines and requirements for geotechnical investigations for design of all types of structures such as buildings and bridges and Infrastructural facilities including transport, power, petrochemical, harbours and airports etc, to enable them to plan and direct the construction activity appropriately.
- Have a clear understanding of how to asses and interpret geotechnical investigation report to be able to execute a safe and economical design.

Participants

The course is designed for

- Civil Engineers, in particular Structural and Foundation Engineers engaged in design and execution of structures.
- Senior professionals responsible for directing these activities.
- Faculty and students in Structural and Geotechnical Engineering in Academic institutions.

Course Contents

- Structural Requirements and Geotechnical Investigation Plan
- Reconnaissance of site and design options
- Best Practices in Field testing; SPT, CPT, DCPT, Sampling
- Laboratory Testing and Soil Parameters
- Codal Provisions
- Geotechnical Investigation Report and Interpretations

- Recent developments enabling Foundation optimization to highlight the benefits from quality Geotechnical recommendations.
- Case Studies

Course Faculty

The course will be conducted by

- Prof. S.R. Gandhi
- Prof. G.V. Rao
- Prof. Jimmy Thomas
- Prof. Ajanta Sachan
- Prof. Amit Prashant

Certificate

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

Venue

The course will be conducted at IIT Gandhinagar premises at Palaj, Gandhinagar.

Registration

The course fee is Rs. 20,000/- plus 18% GST per participant. It includes course material, lunch, and tea breaks. The fee is payable in advance through payment portal in the registration form. The postgraduate students and faculty of civil engineering may request a discount in course fee.



For course website and registration, visit:
<http://events.iitgn.ac.in/2023/gise>

Contact person:

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