

STCC-02-24/25 (SETGOI)

About Experts

Dr. Arya Das

Ph.D.- Geotechnical Engineering [IEST, Shibpur]

Over 8 years of experience in geotechnical investigations for various projects with 3 years of academic experience.

Mr. Suprotiv Chatterjee

M. Tech- Geotechnical Engineering

Over 8 years of industrial experience in the field of building construction and foundation with 4 years of academic experience.

Mr. Soumen Layek

M. Tech- Geotechnical Engineering

Over 6 years of experience in soil investigation and construction.

Who Can Apply

ITI, DIPLOMA, B. TECH, LAB TA

Reg. Fee: 200/- Only

For More Information

Programme Coordinator

Mr. Minal Hasan

Ph. No.- 7872035830

E-Mail ID: mnh.setgoi@gmail.com

COURSE HIGHLIGHT

- Join our 5-day specialized course, designed to explore essential and advanced concepts in Soil Mechanics.
- Course delivery by expert with rich experience in the field of soil mechanics and foundation engineering.
- Hands-on experience with design and lab experiment.
- Field visit and interaction with field expert.
- **Certificate** on successful completion.

Click On the Link for Registration

Reg. Link

<https://forms.gle/XZQviePiRgLxniQi7>

OR

SCAN THE QR CODE



<https://icampus.setgoi.ac.in/>



**SANAKA
EDUCATIONAL
TRUST'S GROUP OF
INSTITUTIONS**

NBA ACCREDITED FOR ACADEMIC YEAR 2024-25 TO 2026-27

Short Term

CERTIFICATE

COURSE

**“Bridging Theory and
Practical”
Field-Oriented Training in
Soil Mechanics**

ORGANIZED BY

DEPARTMENT OF CIVIL ENGINEERING
Sanaka Educational Trust's Group of Institutions
Malandighi, Durgapur, 713212
E-Mail: hod.ce@setgoi.com

DAY-1

Introduction to Soil Mechanics

Morning Session (Theory)

- Overview of Soil Mechanics and Its Importance in Civil Engineering.
- Classification of Soils.
- Introduction to Soil Properties (Density, Moisture Content, Specific Gravity).

Afternoon Session (Practical)

- Determination of Moisture Content of Soil.
- Laboratory Demonstration of Specific Gravity Test.

DAY-2

Soil Compaction and Permeability

Morning Session (Theory)

- Principles of Soil Compaction and Its Significance.
- Soil Permeability: Concepts and Factors Affecting Permeability

Afternoon Session (Practical)

- Proctor Compaction Test
- Permeability Test Using Constant Head Method



DAY-3

Shear Strength and Consolidation

Morning Session (Theory)

- Shear Strength of Soils: Concepts and Theories
- Soil Consolidation: Fundamentals and Its Importance

Afternoon Session (Practical)

- Direct Shear Test
- One-Dimensional Consolidation Test

DAY-4

Slope Stability and Earth Pressure

Morning Session (Theory)

- Slope Stability: Analysis and Methods
- Earth Pressure Theories and Their Applications

Afternoon Session (Practical):

- Slope Stability Analysis Using Software.
- Retaining Wall Design Based on Earth Pressure Theories

DAY-5

Durability and Performance

Morning Session (Theory)

- Site Investigation Techniques and Importance in Soil Mechanics.
- Preparation of Soil Investigation Reports.

Afternoon Session

- Valedictory Session and Participant Feedback.

FOR MORE DETAILS



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Department of Civil Engineering

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