

STCC-01-24/25 (SETGOI)

About Experts

Dr. Dhananjay Mandal

Ph.D.- Structural Engineering

Over 11 years of experience in Concrete Technology and Construction.

Mr. Ayan Ghosh

M. Tech - Structural Engineering

Over 10 years of experience in structural design and quality assurance of concrete.

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

- 5-Days tailored course focusing on fundamental and advanced topic on concrete.
- Course delivery by expert with rich experience in the field of construction and concrete technology.
- 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/3QsbeoPnhzbyevUy7>

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

Concrete Mastery
Essential Laboratory
Techniques for Modern
Construction

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 Concrete Technology

Morning Session (Theory)

- Overview of concrete materials and properties.
- Significance of concrete in modern construction.
- Introduction to sustainable and high-performance concrete

Afternoon Session (Practical)

- Cement Fineness Test
- Cement Consistency Test

DAY-2

Properties of Cement and Testing

Morning Session (Theory)

- Detailed discussion on various cement tests.
- Importance of cement testing in quality control.

Afternoon Session (Practical)

- Cement Setting Time Test
- Cement Compressive Strength Test

DAY-3

Concrete Mix Design

Morning Session (Theory)

- Fundamentals of concrete mix design principles.



DAY-3

Concrete Mix Design

- Proportioning ingredients for different types of concrete.
- Design procedures for specific applications.

Afternoon Session (Practical)

- Hands-on session on designing concrete mixes.
- Preparation of concrete samples for testing.

DAY-4

Properties of Concrete and Testing

Morning Session (Theory)

- Workability and consistency of fresh concrete.
- Importance of compressive, tensile, and flexural strength.

Afternoon Session (Practical):

- Slump Test for fresh concrete
- Compression Test for concrete specimens

DAY-5

Durability and Performance

Morning Session (Theory)

- Assessing durability characteristics of concrete.
- Factors affecting concrete performance and longevity.
- Techniques for enhancing durability and sustainability.
- Field visit and interaction with expert.

Afternoon Session

- Valedictory Session and Participant Feedback.

FOR MORE DETAILS



Reg. Link

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Department of Civil Engineering

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