STCC-04-24/25 (SETGOI)

About Experts

Dr. Dhananjoy 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 analysis in STAAD Pro.

Ms. Puja Haldar
M. Tech- Structural Engineering
Over 6 Years experience in design and analysis.

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 structural design an analysis sing STAAD Pro.

- Course delivery by expert with rich experience in the field of design and analysis.

- Hands-on experience with design and analysis.

- **Certificate** on successful completion.

Click On the Link for Registration

Reg. Link
https://forms.gle/wkNUYfJveuiqMkm19

OR

SCAN THE QR CODE

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS

SETGOI DURGAPUR

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

Short Term
CERTIFICATE
COURSE

'Structural Design and Analysis'
Integrating STAAD Pro for Field Applications

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 Structural Design and Analysis

Morning Session (Theory)

- Overview of structural engineering principles.
- Significance of structural analysis in modern construction.
- Introduction to STAAD Pro and its role in structural design.

Afternoon Session (Practical)

- Installation and setup of STAAD Pro software.
- Basic modelling techniques and interface navigation.

DAY-2

Structural Elements and Material Properties

Morning Session (Theory)

- Discussion on different types of structural elements
- Importance of material properties in structural design.
- Industry requirements for accurate material selection.

Afternoon Session (Practical)

- Creating and analysing simple beam and column models in STAAD Pro.
- Inputting material properties and load conditions.

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DAY-3

Load Calculation and Application

Morning Session (Theory)

- Fundamentals of load calculation in structural design.
- Types of loads: Dead load, live load, wind load, and seismic load.

Afternoon Session (Practical)

- Hands-on session on applying various loads to structures in STAAD Pro.
- Analysis of load effects on structural behaviour.

DAY-4

Advanced Structural Analysis Techniques

Morning Session (Theory)

- Discussion on advanced structural analysis methods.
- Introduction to dynamic analysis and its importance in seismic design.
- Overview of design codes and standards.

Afternoon Session (Practical):

- Performing advanced structural analysis using STAAD Pro.
- Interpretation of analysis results and design validation.

DAY-5

Structural Design Optimization and Practical Applications

Morning Session (Theory)

- Techniques for optimizing structural designs.
- Practical applications of STAAD Pro in real-world projects.
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Afternoon Session

- Valedictory Session and Participant Feedback.

FOR MORE DETAILS

Reg. Link

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PROGRAMME COORDINATOR

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