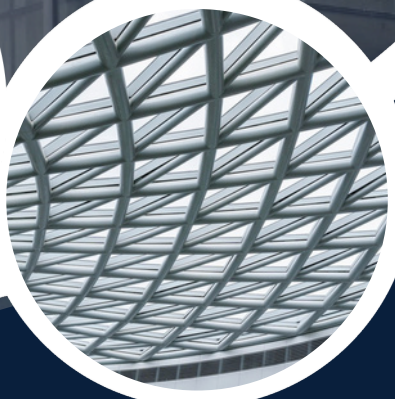
# SHORT TERM TRAINING PROGRAMME
# on
# Structural Steel Design

## Limit State Method and IS 18168:2023





*Organized by*

***Indian Institute of Technology, Roorkee***

*&*

***Institute for Steel Development and Growth, Kolkata***

January 20th - 24th, 2025

VENUE

IIT Roorkee Greater Noida Campus
Greater Noida 203106, India

Chief Guest for Inauguration:
Dr. Prem Krishna- Professor (Retired)- Indian Institute of Technology, Roorkee

## About the Programme

This offline training programme is designed for civil and structural engineers, Teachers and Students looking to advance their expertise in design of steel structures, understanding code provision and knowing the advancement in steel construction. Led by faculty experts, this programme combines theoretical insights with hands-on learning to prepare participants for the dynamic challenges of structural steel projects.

## Who Should Attend?

- Civil and structural engineers - Professionals
- Teachers
- Engineering students pursuing careers in construction and infrastructure development

## Key Highlights

- Advanced Structural Design: Learn cutting-edge methodologies for structural analysis and design.
- Networking Opportunities: Connect with peers and industry professionals.

## Background and Objective

Over the past 15 years, structural steel design has evolved with modern approaches like limit state design, composite construction, and seismic-resistant techniques, reflected in updated Indian codes (BIS, IRC). To address these advancements, a 5-day training program will introduce around 70 participants—including faculty, students, and professionals in civil/structural engineering—to updated codal provisions and INSDAG's Teaching Resource Material on Structural Steel Design, revised by IIT Hyderabad under Dr. R. Narayanan's guidance.

## Why Enroll

- Gain industry-recognized expertise.
- Stay updated with the latest structural steel codes.
- Improve career prospects with enhanced skills.

## Programme Details

The programme is being organized from January 20th to 24th, 2025 at IIT Roorkee, Greater Noida , Plot No 20, Knowledge Park 2, Greater Noida 203106, India

## Topics:

- Design Philosophy
- Introduction to column buckling,
- Design of Members under Tension, Compression, Bending
- Earthquake Resistant Design as per IS18168:2023
- Buckling Restrained Braced Frames and Eccentrically Braced Frames
- Life Cycle Analysis
- Introduction to Limit State and Capacity Design
- Plate buckling, local Buckling
- Connections
- Moment Resisting Frames, Concentrically Braced Frames
- Hands on training on OSDAG (Software developed by IIT Bombay on Connection Design)

## Resource Persons :

Dr Siddhartha Ghosh,
IIT Bombay

Dr Dipti Ranjan Sahoo,
IIT Delhi

Dr Mahendra Kumar Madhavan,
IIT Hyderabad

Dr S R Satishkumar,
IIT Madras

Dr P C Ashwin Kumar,
IIT Roorkee

Mr Manas Mohon Ghosh,
INSDAG Kolkata

## Fee Structure

For Teachers: Rs. 5000/- (incl. GST) For Students: Rs. 4000/- (incl. GST)
*Note: Valid ID card to be furnished*
For Professionals: Rs. 12000/- (incl. GST)
*30% discount for all members of INSDAG*

For Further details, please visit
https://steeleduforum.in/StructureSteelDesign/home

Scan the QR to register or visit **here**

## How to Enroll?

- Fill the Google Form and provide all necessary details.
- Considering limited seats for Teachers (20), Students (30), and Engineers/Professionals (20), each Google Form will be scrutinized.
- The candidates with complete details and within the stipulated seats will be contacted via personal email with registration confirmation. Further, the payment procedure will be mentioned in the email, which needs to be completed within a stipulated time, else the next eligible candidate will be given the chance.
- Once paid, kindly send a return mail with transaction details, upon which the final process of registration will be complete

The Google forms duly completed should be submitted on or before **5th January 2025**

## What will the participants get?

The participants will be given:

- Certificate for participation in the programme.
- Tea- Morning and Evening, Lunch for 5 days during training period

## Accommodation

Hostel room (on twin sharing basis) and food facility available at Venue @ chargeable basis till rooms are available Contact Number: **9876227224**
E-mail your queries: **krishna_m@eq.iitr.ac.in**
For further details of venue kindly visit http://gnec.iitr.ac.in/

## How To Reach GNEC IITR Greater Noida

To reach IIT Roorkee Greater Noida campus from Noida, there is regular bus service from Botanical Garden Metro Station, Noida. Noida is connected to Delhi by Delhi Metro which has service from New Delhi Railway Station, Old Delhi Railway Station, Kashmiri Gate ISBT and Anand Vihar ISBT. There is Airport Express line connecting New Delhi Railway Station to Airport. The route will be as follows:

- New Delhi/Old Delhi/Kashmiri Gate-------Rajiv Chowk (Change here for blue line Metro) -------Botanical Garden, Noida.
- Anand Vihar ISBT-------Yamuna Bank (Change here for Blue Line Metro)-------Botanical Garden, Noida.
- There is Bus service from Botanical Garden, Noida to Pari Chowk, Greater Noida. From Pari Chowk, the distance is about 3 km and regular auto service is available.

## Coordinators:


Dr. P C Ashwin Kumar
Assistant Professor,
Department of Earthquake Engineering
Indian Institute of Technology Roorkee,
Uttarakhand 247667

Mobile Number: 7838750015
E-mail: ashwin.pc@eq.iitr.ac.in

Mr. M M Ghosh
Consultant,
Institute for Steel Development and Growth (INSDAG)
Ispat Pragati Bhawan, 793 Anandapur, Kolkata 700107

Mobile Number : 9748482618
E-mail : manas.ghosh@insdag.com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