

SHORT TERM TRAINING  
PROGRAMME ON

## SELECTED ASPECTS IN STEEL DESIGN

ORGANIZED BY:



### CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, is an ISO 9001-certified institute under the Council of Scientific and Industrial Research, India. It collaborates with government bodies and private organizations, serving as a hub for advanced knowledge in structural engineering. CSIR-SERC focuses on application-oriented research in design, construction, and structural rehabilitation.

### Institute for Steel Development & Growth (INSDAG), Kolkata

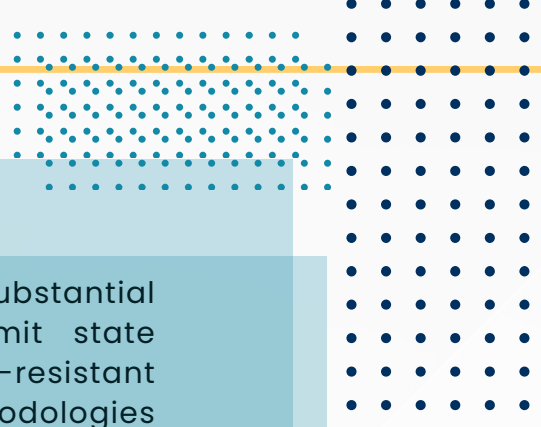
Established in collaboration with the Steel Construction Institute (SCI), UK, INSDAG focuses on developing advanced, cost-effective steel design methodologies, promoting steel applications in construction, enhancing technical skills, and creating awareness among users and students. It actively contributes to revising codes and standards with BIS and IRC to align with the latest advancements.



**17TH FEBRUARY - 28TH FEBRUARY 2025**  
(Excluding Saturdays and Sundays)

Mode

**ONLINE**



## BACKGROUND AND OBJECTIVES:

The field of structural steel design has seen substantial advancements, including concepts such as limit state design, composite construction, and earthquake-resistant design. To equip participants with modern methodologies and principles, CSIR-SERC and INSDAG are jointly organizing a 10-day online training program focusing on "Selected Aspects in Steel Design."

This program will familiarize students and professionals with the latest developments in the field and codal provisions while enhancing their skills for practical application.

## COURSE HIGHLIGHTS:

- Duration: 10 days (20 hours total)
- Mode: Online, evening sessions (6:00 PM - 8:00 PM)
- Content: Expert lectures, interactive sessions, and a concluding quiz/test with a valedictory session.
- Resource Material: Copy of the presentations

## TARGET AUDIENCE:

- Students: Bachelor's in Civil/Structural Engineering
- Young Professionals: Civil/Structural Engineers



## PROGRAM SCHEDULE AND TOPICS

S.No	Topic	Duration Date	Speaker
1	Structural Properties of Steel, Introducing Limit State, Classification of Sections	2 Hours 17.02.2025	Shri M M Ghosh, Consultant, INSDAG
2	Determination of Wind Loads as per IS 875 (Part 3) Part 1	2 Hours 18.02.2025	Dr. P. Harikrishna, Chief Scientist, CSIR- SERC
3	Determination of wind pressure in Industrial buildings, Lattice Towers, Self-Supporting Chimneys	2 Hours 19.02.2025	Dr. P. Harikrishna, Chief Sct / Dr. R. Balagopal, Principal Sct, CSIR- SERC
4	Building Aerodynamics	2 Hours 20.02.2025	Dr. P. Harikrishna, Chief Scientist, CSIR- SERC
5	Design of Beams under Bending	2 Hours 21.02.2025	Smt. Nibedita Dey, Senior Manager, INSDAG
6	Details of Beam Columns	2 Hours 24.02.2025	Dr S. R. Satish Kumar, Professor, IITMadras
7	Design of Steel Building for Wind Load with Tutorial	2 Hours 25.02.2025	Dr. M. Saravanan Principal Scientist, CSIR- SERC
8	Design of Base Plates and Cap Plates	2 Hours 26.02.2025	Dr. P. Prabha, Principal Scientist, CSIR- SERC
9	Case Study of a Landmark Steel Structure (Design, Fabrication, and Erection)	2 Hours 27.02.2025	Shri Amitabha Ghoshal - Professional
10	QUIZ/TEST & VALEDICTORY	2 Hours 28.02.2025	

### KEY RESOURCE PERSONS:

- Dr. P. Harikrishna: Chief Scientist, Wind Engineering Laboratory, CSIR-SERC
  - Expertise: Wind effects, Computational Fluid Dynamics, and small wind turbines
- Dr. P. Prabha: Principal Scientist, Steel Structures Laboratory, CSIR-SERC
  - Expertise: Steel-concrete composite structures, prefab technology
- Dr. R. Balagopal: Principal Scientist, Tower Testing Research Station, CSIR-SERC
  - Expertise: Transmission and communication towers, retrofitting techniques
- Dr. M. Saravanan: Principal Scientist, Tower Testing Research Station, CSIR-SERC
  - Expertise: Earthquake-resistant design, metal 3D printing
- Smt. Nibedita Dey: Senior Manager, INSDAG
  - Expertise: Structural Engineering Design with Steel
- Shri M M Ghosh: Consultant, INSDAG
  - Expertise: Structural Engineering Design with Steel
- Shri Amitabha Ghoshal - Eminent Structural Engineering Professional

## REGISTRATION FEE

Category	Amount (Rs)(including GST)
Students	2360.00
Young Professionals	4720.00

## WHAT PARTICIPANTS WILL RECEIVE

- Copy of the presentations
- Certificate of participation (minimum 90% attendance required)

## HOW TO APPLY:



Kindly register at the following link or scan the QR:  
<https://forms.gle/U6ZddEQpqc4T7PdA>

## BANK DETAILS WITH QR CODE

INSTITUTE FOR STEEL DEVELOPMENT AND GROWTH

Account No. 08370100004683

Bank Name : UCO Bank

Branch : Kasba

IFSC : UCBA0002081

INSDAG GST No. :19AAAAI0466PIZA

INSDAG PAN : AAAAI0466P

INSDAG TAN :CALI 01219B



THE LAST DATE FOR REGISTRATION IS 15TH FEBRUARY 2025.

## COURSE COORDINATORS:

- Dr. P. Prabha, [CSIR-SERC.prabha@serc.res.in](mailto:CSIR-SERC.prabha@serc.res.in) 9042011167
- Shri M M Ghosh, INSDAG. [Manas.Ghosh@insdag.com](mailto:Manas.Ghosh@insdag.com) 9748482618 (M)

JOIN THIS COMPREHENSIVE PROGRAM TO UPGRADE YOUR  
SKILLS AND KNOWLEDGE IN STRUCTURAL STEEL DESIGN!

