



Institute for Steel Development
and Growth (INSDAG)

ANNOUNCES
ONLINE TRAINING PROGRAMME ON
**Earthquake Resistant
Design and Detailing of
Steel Buildings as per
IS 18168:2023**

**Learn the codal provisions and design tips
directly from the experts who are well
versed with the IS 18168:2023 code**



**Thursday
04 DEC, 2025**
14:00 Hrs to 18:00 Hrs (IST)

Steel buildings play a vital role in modern infrastructure due to their versatility, strength, and adaptability. Ensuring their seismic safety has become increasingly important, especially in earthquake-prone regions. The recently introduced IS 18168:2023 – Guidelines for Earthquake Resistant Design and Detailing of Steel Structures provides a unified framework for ensuring structural safety and resilience under earthquake conditions.

This One-Day Online Training Programme on “Earthquake Resistant Design and Detailing of Steel Buildings as per IS 18168:2023”, aims to enhance understanding of the new code provisions and their practical application in steel structure design. The programme begins with a comprehensive overview of IS 18168:2023, covering its design philosophy, scope, and implementation guidelines. Participants will gain insights into seismic force considerations, ductile detailing requirements. Subsequent sessions will focus on the design and detailing of braced frame steel buildings, including the selection of appropriate lateral load-resisting systems, modelling approaches, load transfer mechanisms, and connection detailing as per code requirements. The discussions will be supplemented with practical examples to bridge the gap between theoretical understanding and real-world design challenges. The training will conclude with an interactive quiz and feedback session, reinforcing key learnings and allowing participants to clarify their queries. This programme offers an excellent opportunity for engineers, consultants, faculty members, and students to strengthen their technical proficiency and stay updated with the latest developments in earthquake-resistant design of steel structures in India

JOIN NOW

WHO SHOULD JOIN:

- Structural engineers and design professionals involved in the analysis and design of steel and seismic-resistant building
- Engineers working in EPC companies, PEB firms, consulting organizations, and infrastructure sectors engaged in steel structure design
- Faculty members and UG/PG students specializing in structural and earthquake engineering
- Young professionals (0–10 years' experience) seeking to enhance their understanding of seismic design and detailing of steel structures as per IS 18168:2023

Participants are encouraged to share their real project problems / issues during the registration or later (up to 01th December 2025) through email (seminars@insdag.com). Remedial measures / solutions / answers may be addressed by the trainers during their respective lectures.

Certificate will be issued to all participants on successful completion of the online course

Rs 2500/- + 18% GST = Rs 2950/- per participants

Discounts:

- 30% for Individual members of INSDAG, students and nominations from INSDAG member organization
- Additional 5% for Bulk nominations (≥ 5 nominations)



Scan here to register or visit
<https://www.insdag.com/event>

LAST DATE OF REGISTRATION: 01 DECEMBER(MONDAY), 2025

Coordinator: Dr. Siddharth Chauhan and Mr. Reecheek Mookherjee

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TRAINING SCHEDULE

TIME SLOT	TOPICS	PRESENTER
14.00 – 14.10	Inauguration & Overview of Training Programme	INSDAG, Kolkata
Lecture 1 (14.10 – 16.00) Q&A – (16.00 – 16.10)	Overview and Application of IS 18168:2023 – Seismic Design & Detailing Guidelines for Steel Structures	Dr P.C. Ashwin Kumar Department of Earthquake Engineering IIT Roorkee
Lecture 2 (16.10 – 17.30) Q&A – (17.30 – 17.40)	Design of Braced Frame Steel Buildings as per IS 18168:2023	Ms. Sangeeta Wij & Mr. Harvinder Singh M/s SD Engineering Consultants LLP
17:40 – 18:00	Quiz & Feedback (Google Form)	INSDAG, Kolkata

PRESENTERS:



Dr. P. C. Ashwin Kumar,
Department of Earthquake Engineering
IIT Roorkee

Dr. P.C. Ashwin Kumar is an Assistant Professor in the Department of Earthquake Engineering at IIT Roorkee. He holds a B.Tech. from GEC Thrissur (2006), an M.Tech. from IIT Madras (2010), and a Ph.D. from IIT Delhi (2017). His research focuses on the seismic response and design of steel structures, supplemental damping and energy dissipation devices, and large-scale structural testing and simulations. With over eight years of research experience, Dr. Ashwin Kumar has published extensively in reputed international journals and conferences. He currently guides nine Ph.D. scholars, has completed three sponsored research projects, and continues to lead several others. He has also contributed to multiple consultancy projects for government and public sector clients. He served as Associate Dean (Infrastructure – Projects) at IIT Roorkee (2021–2025) and was Organizing Secretary of the 17th Symposium on Earthquake Engineering (2022). He is a Life Member and current Secretary of ISET and an Affiliate Member of ASCE.



PRESENTERS:

Ms. Sangeeta Wij is a distinguished structural engineer with over 40 years of experience in structural analysis, design, and consultancy. She has led numerous projects across India, specializing in structural design, review, and auditing of earthquake-resistant structures as per BIS codes and international standards. Her expertise includes comprehensive structural audits, capacity-demand assessments, and the development of retrofit schemes ensuring seismic safety and performance compliance. A 1982 graduate, Ms. Wij began her career with RITES before founding SD Engineering Consultants LLP in 1996. Under her leadership, the firm has delivered over 1,000 major projects, including metro stations, hospitals, educational institutions, commercial complexes, and industrial facilities with complex RCC and steel systems. SDEC has also executed key structural audits and retrofitting studies for organizations such as the World Bank and NDMA, where several hospital projects under her guidance achieved Immediate Occupancy Level per NDMA Hospital Safety Guidelines.



Ms. Sangeeta Wij
Managing Partner
SD Engineering Consultants LLP



Mr. Harvinder Singh
Managing Partner
SD Engineering Consultants LLP

Mr. Harvinder Singh is a distinguished structural engineer and Designated Partner at SD Engineering Consultants LLP, with over 25 years of professional experience in the field of structural design, analysis, and consultancy. A postgraduate in structural engineering from Delhi College of Engineering, he has led a diverse range of projects spanning metro infrastructures, industrial facilities, hospitals, educational institutions, and commercial complexes.

Mr. Singh specializes in earthquake-resistant design, structural audits, peer reviews, and retrofitting solutions, ensuring that every structure meets stringent safety and performance standards. Known for his analytical depth and practical insight, he integrates modern design tools with sound engineering judgment to deliver innovative, efficient, and resilient structural systems.

Under his leadership, SD Engineering Consultants LLP has grown into a trusted name in India's infrastructure and construction sector. Mr. Singh's commitment to technical excellence and continuous innovation continues to inspire a new generation of engineers and shape the future of structural design practice in the country.