

INSTRUCT®

Empowering India's Construction

Institute for Research, Development and Training of
Construction Trades and Management

2 DAY SPECIAL PROGRAM

Engineering High-Rise Buildings

Wind, Seismic Analysis &
Structural Elements Design



**28th & 29th
October 2026**
(Wednesday & Thursday)



**9:00 –
18:00 Hrs IST**



**VRR Auditorium,
Builder's NGV Club
Koramangala, Bengaluru-95**



SCAN THIS QR CODE
FOR ADDRESS



About the Program

The design and construction of high-rise buildings require a comprehensive understanding of structural behaviour, advanced analysis techniques, and the effects of wind and seismic forces. As buildings increase in height and complexity, structural engineers need to address challenges related to lateral stability, stiffness, strength, serviceability, foundation interaction, and the design of critical structural elements.

The "Engineering High-Rise Buildings – Wind, Seismic Analysis & Structural Elements Design" program is designed to provide participants with a practical introduction to the principles and methodologies involved in the analysis & design of high-rise structures.

The program will cover the fundamental concepts governing the behaviour of tall buildings, including gravity and lateral load systems, wind effects, seismic forces, structural modelling, analysis approaches, and the design of key structural elements. Emphasis will be placed on the comprehension of structural systems and their mechanical behavior under diverse loading conditions, substantiated by empirical examples and engineering case studies. The sessions will integrate conceptual frameworks, engineering principles, and practical design methodologies. This programme is specifically designed for professionals aiming to enhance their expertise in wind and seismic analysis, as well as the structural design of high-rise edifices.

The program aims to:

- Introduce the fundamental concepts and structural systems used in high-rise buildings.
- Develop an understanding of gravity and lateral load-resisting systems and their structural behaviour.
- Explain the effects of wind and seismic forces on tall buildings and the approaches used for their analysis.
- Familiarize participants with structural modelling, load combinations, stability, stiffness and serviceability considerations.
- Provide an overview of the design of key structural elements such as slabs, beams, columns, shear walls and foundations.
- Highlight the importance of P- Δ effects, structural irregularities and overall stability in high-rise structures.
- Familiarize participants with relevant Indian Standards, design provisions and good engineering practices.
- Provide practical insights through worked examples, case studies and real-world design considerations.
- Enable engineers and other professionals to better appreciate the integrated approach required for safe, efficient and economical high-rise building design.

Participation:

INSTRUCT Members | Structural Engineers | Civil Engineers | Design Engineers | Architects | Consultants | Contractors | Project Engineers | Government Engineers | Academicians | Postgraduate Students | Professionals involved in High-Rise Building Projects |

Topics & Speakers



Sub-soil Investigation

Dr. C R Parthasarathy

Founder, Chairman and Managing Director
Sarathy Geotech & Engineering
Services Pvt Ltd., Bengaluru



Design of Columns (Rectangular Column, Circular Column, L-Shaped Column, C Columns)

Er. N N Nagendra Kumar

Director - Sterling Engineering Consultancy
Services Private Limited, Bengaluru



Design of Water Retaining Structures

Er. Vidyashankar N Hoskere

Managing Partner
Turnkey Construction Engineers
Bengaluru

Design of Retaining Walls
(Various Types of Walls)



Structural Analysis of the RCC Buildings using Software Application Etabs- Gravity, Earthquake, Wind and Temperature Loads (Zone 2 & Zone 3)

Er. H P Yogesh

Joint Managing Director
Innotech Engineering Consult Pvt Ltd.,
Bengaluru



Design of Foundations (Isolated, Combined, Raft and Piles Foundations) considering Gravity and Earthquake forces using SAFE Software Package

Er. Srinivas Rao Bolimuntha

Associate Director - Structures
Design Tree Services Consultants Pvt. Ltd.,
Bengaluru



Design of Slabs {Rectangular (OneWay and 2Way Ramp) Square, Triangular, Ramp Slabs} using Gravity & Impacted Load (Fire, Tender Truck, Vehicle and Machine), Design of Beams (Simply Supported, Continuous, Transferable Beams) & Design of Staircases

Er. A T Samuel

Managing Director
ATS Engineering Consulting Services Consultants Pvt. Ltd
Bengaluru

Registration Fee

(delegate fee includes delegate kit, lunch and hi-teas)

Delegates	Fee
Non - Members	₹7,500/-
INSTRUCT Members	₹6,500/-
Students of Engineering Colleges	₹3,500/-

* Inclusive of GST



Sponsorship Opportunities:-

INSTRUCT invites organisations servicing construction industry to sponsor the programme and take the marketing opportunity to reach out to interested group of engineers from construction industry.

Sponsoring organisations can enjoy the following privileges:

Privileges	Gold Sponsor ₹1,00,000/-	Silver Sponsor ₹70,000/-	Bronze Sponsor ₹50,000/-	Exhibition Stall Space (3mtrx3mtr) ₹30,000/-	Supporting Organisation ₹25,000/-
Demo Slot	15 mins	-	-	-	-
Banner Display at Venue	✓	✓	✓	✓	✓
Distribution of Marketing Materials	✓	✓	✓	✓	✓
Logo on Power point slides, in the backdrop	✓	✓	-	-	-
Complimentary Delegates	4	2	1	1	1



Opportunity to Display Banner at the Venue ₹10,000/-

* Plus 18% GST for all the above mentioned Amount

Payment :

Sponsorship payments should be made through e-transfer (i.e. RTGS/NEFT etc.) or Account Payee DD or at par cheque drawn in favour of "INSTRUCT, BANGALORE" payable at Bengaluru.

Our bank details are given below:

ELECTRONIC PAYMENT DETAILS

Nam	: INSTRUCT Bangalore
Bank Name	: Union Bank of India
Branch Name	: Nrupatunga Road Branch
Address	: #14/3, Nrupatunga Road, Bangalore-560002
ACCOUNT No	: 520101235036516
IFSC CODE	: UBIN0901750
PAN	: AAAT13463K
GSTIN	: 29AAAT13463K1ZD

**You can also pay through
Google pay/ PhonePe to 9141042097**

**SCAN TO PAY
INSTRUCT**



UPI ID : 71201601@ubin

INSTRUCT®

Empowering India's Construction

About INSTRUCT

INSTRUCT is a 'not-for-profit' institute in the service of construction industry for over thirty five years. It was originally conceived as Centre of Awareness in Construction and Engineering in 1989 by a few like minded, dedicated professionals, to provide high quality training to the construction industry fraternity both to upgrade skills of craftsmen and to update engineers on the latest technology.

During the past thirty seven years, INSTRUCT has trained over 40,000 personnel through more than 1,650 training programmes. It has earned recognition and awards for its service to the industry from premier bodies such as, Construction Industry Development Council, Rotary BSE, etc.,

The latest recognition earned for its service in educating construction industry is the prestigious 'Vishwakarma Award' by CIDC for the year 2023. Received 16th CIDC 'Vishwakarma Award' for creating social development and impact in 2025.

Board of Governors (2025-27) of INSTRUCT

Office Bearers

Er. K M Manjunatha	- Hon. Chairman
Er. G B Suresh Kumar	- Hon. Vice Chairman
Er. Mohan Kumar M	- Hon. Secretary
Er. Dhananjai K Naidu	- Hon. Treasurer

G.C. Members

Dr. Surendra K Manjrekar
Er. S Ravi
Er. Kaushik Hajra
Mr. H V N Krishna
Er. N Md. Shabaz Khan
Er. Ulhas Prabhakar Prabhu
Er. Cheekalaparvi Ramesh
Dr. H R Pradeep

Ex - Officio

Er. Umesh B Rao	Dr. Ramprakash N
Er. Nirmal Prasad A	Er. K L Mohan Rao
Er. Madhukar B A	Mr. Seshadri S

Founders

Er. Nagabhushan Rao A	Er. Thiagarajan
Er. Nanjundaswamy H K	Er. Shenoi M P V
Er. Vishwanath Rao H	Er. Umesh B Rao
Ar. Sundaram R	Er. Muthayya J J R
Ar. Giridhar V K	Dr. Ramprakash N
Er. Ramaswamy M S	Er. Bhaskara Rao
Er. Radhakrishnan K S	Dr. Narayana Reddy P.



Sponsor



Bronze Sponsor



Supporting Organisation



Digital Media Partner



Institute for Research, Development and Training of Construction Trades and Management

1st Floor, UVCE Alumni Association Building, K R Circle, Bangalore – 560 001.

Phone : 080-22243257 / 22294291 / 29543257 **Email id** : instructindia@gmail.com

Mobile : 9141042097 **Website** : www.instructindia.org