



MESSAGE FROM THE PRESIDENT



Dear Readers and Members of IAStructE,

Happy 2026! I am excited about StructENatcon 2026 event which is going to commence on 5th February 2026 in Hyderabad. The theme of this event is **“Towards a Safe and Enduring Built Habitat”**. This 3-day event will feature Keynote Lectures by eminent global experts, Invited speakers from stalwarts in the field, in India. Apart from the lectures by eminent speakers there will be opportunity for parallel technical Sessions, paper Presentations, poster sessions, panel discussions showcasing cutting-edge research and addressing future challenges in structural engineering. With a strong focus on sustainability, resilience, and the integration of Artificial Intelligence and Machine Learning (AI/ML) in structural engineering, this conference seeks to unlock transformative ideas that will redefine how we design, construct, and maintain our infrastructure. StructE NatCon 2026 will also provide an excellent opportunity and a vibrant platform for manufacturers, technology providers, and service organisations to network with national / international experts and to showcase innovations and solutions that support the engineering fraternity.

One of the strong pillar of our work is our focus on capacity development which we do by conducting Professional development courses regularly on topics of importance and topics of interest. We are soon going to commence a course on elevated metro design. We are also planning new initiatives on courses related to soft skill development, sustainability, digital technologies, and artificial intelligence. Besides these training courses, IAStructE is regularly conducting webinars where experts from the industry delivers lecture online a specialist topic.

Year 2026 marks the beginning of new hopes, dreams, and aspirations. We are excited about the opportunities ahead and let us plan to continue building on our legacy of excellence.

Time runs fast. We have already crossed a month in this new year and approaching the month of February. Let us march ahead collectively into 2026 with pride in what we have accomplished and the drive to make a greater impact together.

Warm Regards

Alok Bhowmick

FROM THE EDITOR'S DESK



Dear Esteemed Members and Readers,

The January 2026 issue of the IAStructE Newsletter opens the new year with a blend of reflection, remembrance and renewed professional engagement. This issue underscores the Association's continued commitment to technical excellence, knowledge dissemination and service to the structural engineering fraternity.

We begin this issue with a solemn tribute to **Late Shri Ashok D. Pavate**, Founder Member of IAStructE and Founder of SEMAC Pvt. Ltd., whose visionary leadership and lifelong dedication significantly shaped the profession and the growth of IAStructE. His legacy of integrity, professional excellence and service will continue to inspire generations of engineers.

The technical activities featured in this issue highlight IAStructE's focus on emerging materials and advanced analytical methods. The webinar on Ultra-High Performance Concrete (UHPC), delivered by Dr. Satish Jain, provided valuable insights into the philosophy, engineering principles, and practical applications of UHPC, emphasizing durability, sustainability and innovation. The technical lecture by Dr. Ashutosh Bagchi on the application of the Spectral Finite Element Method for nonlinear analysis of concrete gravity dams exposed participants to state-of-the-art numerical techniques relevant to seismic and infrastructure engineering.

The Association's emphasis on nurturing academic rigor among young engineers is reflected in the IAStructE-IIIIT Hyderabad Student Chapter lecture by Dr. Biswarup Bhattacharyya on uncertainty quantification of dynamical systems, which offered participants a strong conceptual and practical foundation in uncertainty modelling, surrogate approaches and their relevance to modern engineering applications such as structural dynamics and digital twins.

This issue also proudly acknowledges the distinguished achievement of Dr. Harshavardhan Subbarao, Fellow and Governing Council Member of IAStructE, Chairman and Managing Director of Construma Consultants Pvt. Ltd., and President of IABSE, who was conferred the 31st S. B. Joshi Memorial Award 2025 by the Alumni Association of the College of Engineering, Pune. This honour recognizes his exemplary contributions to bridge and structural engineering and reflects the professional excellence embodied by IAStructE members.

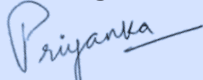
We are also pleased to highlight StructE NatCon 2026, IAStructE's forthcoming flagship national conference on the theme "Towards a Safe and Enduring Built Habitat," to be held in February 2026 at Hyderabad. The conference aims to bring together practicing engineers, researchers, academicians and industry leaders to deliberate on resilient construction, sustainability, seismic safety, digital technologies, life-cycle assessment and lessons from structural failures. NatCon 2026 represents an important forum for professional dialogue, collaboration and collective learning within the structural engineering community.

Further, the newsletter carries announcements of the Online Refresher Course on Planning, Design and Construction of Elevated Metro Structures, reinforcing IAStructE's role in continuous professional development. Regular features such as the technical quiz, calls for papers for Structural Engineering Digest and CROSFALL, updates on professional publications and enhancements to the IAStructE Library further enrich this issue.

I sincerely acknowledge the contributions of speakers, authors, student coordinators, reviewers and the IAStructE Secretariat for their dedicated efforts. I also thank our members and readers for their continued trust, engagement, and support.

As we move forward in 2026, I look forward to sustained collaboration, informed dialogue and active participation in advancing safe, resilient and enduring built infrastructure.

With regards,



Prof.(Dr.) Priyanka Singh

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Obituary: Shri Ashok D. Pavate, Founder Member, IAStructE / Founder, SEMAC Pvt. Ltd.

Shri Ashok D. Pavate, Founder Member of the Indian Association of Structural Engineers (IAStructE), passed away on 24 January 2026, leaving behind a rich legacy of professional excellence and dedicated service to the engineering fraternity.



Born on 25 February 1938, Late Shri Ashok D. Pavate was the Founder Member and Former Chairman of the Karnataka State Centre of IAStructE. He was also the Founder of SEMAC Pvt. Ltd., and was widely respected for his contributions to structural engineering practice in India.

He remained closely associated with IAStructE since its inception and was actively involved in its activities, offering leadership, guidance, and unwavering support. His contributions to IAStructE and to the engineering profession at large were immense and will be remembered with deep gratitude. IAStructE mourns the loss of a visionary professional and prays to the Almighty to grant eternal peace to his noble soul and strength to his bereaved family to bear this irreparable loss.

Events Organized:

1. Webinar on “UHPC – From Philosophy to Engineering”

A webinar on “Ultra-High Performance Concrete (UHPC): Fundamentals, Applications and Value Addition to the Industry” was organized by IAStructE on Tuesday, 6 January 2026 at 4:00 PM (IST). The webinar was initiated by Mr. Sandeep Pattiwar, Chairman, Professional Development and Technical Events Committee, IAStructE, followed by a welcome address by Mr. Alok Bhowmick, President, IAStructE. The technical session was delivered by Dr. Satish Jain, Ph.D., PE, SE (USA), Managing Director, UHPC India Pvt. Ltd., and was moderated by Dr. Bijily Balakrishnan, Assistant Professor, IIT Tirupati.

The speaker elaborated on UHPC as an advanced fibrous composite material, highlighting the fundamental principles that distinguish it from conventional concrete. The presentation covered its superior mechanical properties, durability, and sustainability benefits. Various applications of UHPC were discussed, including bridge overlays, building elements, repair and retrofitting works, and structural connections. The talk also showcased select international and architectural projects, demonstrating UHPC’s potential to provide innovative and effective solutions across the construction industry. The recorded lecture can be seen from the following YouTube link: <https://youtu.be/-leXy6-GCv4>



Fig 1: Glimpses of the Webinar

2. Lecture on "Application of Spectral Finite Element Method for Nonlinear Analysis of Concrete Gravity Dams "

IAStructE organized a technical lecture on “**Application of Spectral Finite Element Method for Nonlinear Analysis of Concrete Gravity Dams**” on **Thursday, 29 January 2026 at 6:00 PM (IST)**. The lecture was delivered by **Dr. Ashutosh Bagchi**, Professor of Structures and Infrastructure Engineering, **Concordia University, Montreal**. The webinar was initiated by Dr. S. K. Dhawan, GC member, IAStructE

The presentation outlined the fundamentals of the spectral finite element method and the development of a novel two-dimensional time-domain element incorporating material nonlinearity. Its effectiveness was demonstrated through benchmark studies and nonlinear seismic time-history analysis of concrete gravity dams, offering valuable insights into advanced numerical techniques for structural and earthquake engineering. The recorded lecture can be seen from the following YouTube link: <https://youtu.be/-leXy6-GCv4>



Fig 2: Glimpses of the Lecture

IAStructE Student Chapter Activities

IAStructE – IIIT Hyderabad Student Chapter Event:

1. Lecture on “Uncertainty Quantification of Dynamical Systems”

The IAStructE – IIIT Hyderabad Student’s Chapter organized an online expert lecture on “**Uncertainty Quantification of Dynamical Systems**”, delivered by **Dr. Biswarup Bhattacharyya** on **28th of January, 2026**, Assistant Professor, Department of Civil Engineering, IIT Hyderabad. The lecture focused on the importance of accounting for uncertainty in the analysis of engineering systems, particularly dynamical systems, where inherent variability and modelling assumptions can significantly influence system response and reliability.

Dr. Bhattacharyya began the session by introducing the fundamental sources of uncertainty in engineering problems, categorizing them into aleatory uncertainty, associated with inherent randomness, and epistemic uncertainty, arising from lack of knowledge, modelling assumptions, and measurement errors. He emphasized the need to identify and treat these uncertainties appropriately to ensure realistic prediction of system behaviour and to mitigate potential risks in engineering applications. The lecture further provided an overview of uncertainty quantification (UQ) and its relevance to both linear and nonlinear dynamical systems. Subsequently, the concept of uncertainty propagation was discussed, explaining how uncertainties in input parameters affect the response of dynamical systems. Dr. Bhattacharyya elaborated on commonly adopted approaches for uncertainty propagation, including Monte Carlo Simulation, highlighting its robustness and general applicability. He also discussed the associated computational challenges and introduced surrogate modelling techniques as an efficient alternative. The advantages of surrogate models in reducing computational cost while retaining adequate

accuracy were explained using examples from dynamical systems, along with an introduction to online surrogate models for adaptive uncertainty quantification.

In the concluding part of the lecture, Dr. Bhattacharyya summarized the key advantages of surrogate-based approaches and their applicability in modern engineering problems such as structural dynamics, digital twins, and reliability analysis. The session concluded with an interactive Q&A, during which participants raised questions related to the practical implementation of UQ methods, the selection of appropriate modelling strategies, and trade-offs between accuracy and computational efficiency. Dr. Bhattacharyya addressed these queries with clear explanations and practical insights. The lecture, in conclusion, substantially strengthened the participants' understanding of uncertainty quantification in dynamical systems and offered a clear conceptual framework along with practical insights for applying UQ methodologies in advanced engineering analysis and research. YouTube Link: <https://youtu.be/TT59Q-MKBDk>

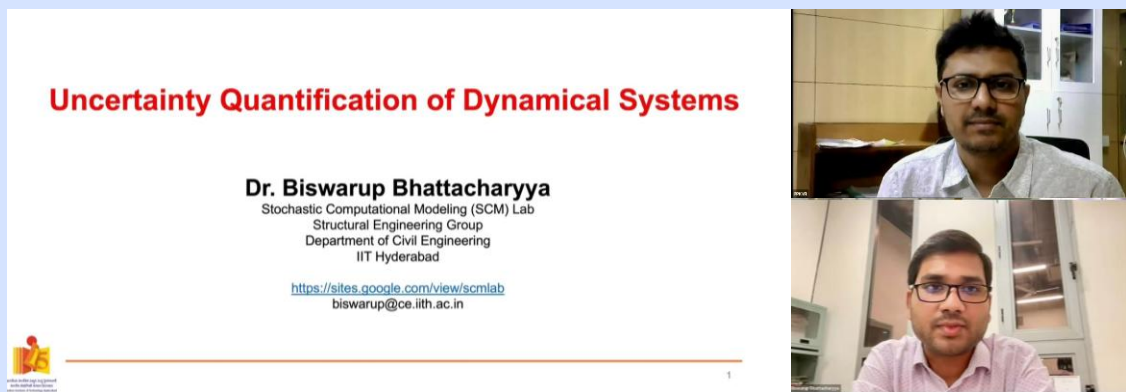


Fig 3: Glimpses of the Lecture

Forthcoming Events:

1. IAStructE is organizing an Online Refresher Course on “**Planning, Design and Construction of Elevated Metro Structures**”, scheduled to be conducted **from 21st February 2026 to 28th March 2026**. The course will be conducted **every Saturday from 15:00 Hrs to 18:00 Hrs (IST)** in webinar mode through Zoom. This refresher course offers an overview of the **planning, design, and construction of elevated metro viaducts and stations**, addressing key technical challenges through topics such as DPR preparation, structural systems, construction methodologies, dynamic analysis, sustainability, and recent code updates, supported by practical case studies.

Interested participants are requested to register through the link below and complete the payment process at the earliest, as registration slots are limited: <http://iastructe.co.in/online-refresher-course.php>

2. IAStructE cordially invites you to register for **StructE NatCon 2026**, a premier national conference on the theme “**Towards a Safe and Enduring Built Habitat.**” The conference will be held from **5–7 February 2026 at Vishweshwaraya Bhavan, Hyderabad**, bringing together leading professionals, academicians, and students from across the civil and structural engineering fraternity. **For registration and further details, please visit: <https://structenatcon.com>**

The conference aims to bring together practicing professionals, researchers, academicians, and industry experts to deliberate on recent advancements and emerging challenges in the field of structural engineering.



StructE
NATCON 2026



National Conference on
**Towards a Safe and
Enduring Built Habitat**

5-7 February, 2026
Hyderabad , India

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Dr. Shailesh Kr. Agrawal
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Mr. Girish Dravid
Past MD, Sterling Engineering Consultancy
Services Pvt. Ltd.
Founder and Director, Exponentialists Pvt. Ltd.
Chairman, Council on Tall Buildings & Urban
Habitat, India Chapter

Invited Speakers



Prof. Mahesh Tandon
Chairman
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Prof. Ravi Sundaram
Director
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Mr. Alok Bhowmick
Managing Director
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Mr. Majid Hashmi
Managing Director
KMH Engineering



Dr. Satish Jain
Managing Director
UHPC India Pvt. Ltd.



Dr. D. P. Kanungo
Chief Scientist & Professor (AcSIR)
CSIR-CBRI



Dr. Ajay Chourasia
Chief Scientist and Head,
Structural Engineering &
3D Concrete Printing Group
CSIR-CBRI

StructE - NatCon 2026
Theme: Towards a Safe and Enduring Built Habitat

Programme | Day 1 | 5th Feb. 2026, Thursday

09:00-09:30	Registrations	
09:30-10:10	Inauguration	
10:10-10:40	Key Note-1 : Prof. Mike Schlaich , sbp Schlaich Bergermann Partner, Berlin, Germany Feasible – Contemporary Structures. What can we do already and what still needs to be done? (25+5 min)	
10:40-11:00	Sponsor's Presentation (20 min)	
11:00-11:30	Tea Break	
11:30-12:00	Key Note-2 : Er. Girish David , Director, Sterling Engineering Consultancy Services, Mumbai AI - the Eye in the Sky (25+5 min)	
12:00-12:20	Invited Speaker - 1 : Mr. Majid Hashmi , Managing Director, KMH Engineering Structural Design of Some Fascinating and Unique Tall Buildings	
12:20-12:35	Principal Sponsor's Presentation (15 min)	
Time	S-1: Innovative and Resilient Construction	S-2: Emerging Technologies: BIM, Digital Twins & Asset Management (CAM)
12:40-12:50	21 : Innovative Lateral Shifting Method for Resilient Construction of ROR Truss Bridges under Constrained Site Conditions	82N : Robotics for Inspection and Retrofitting of Underground RCC Structures of Mega Power Projects
12:50-01:00	64 : Structural Vibrations and Noise Level Analysis of a Newly Operational Metro Station	95N : Investigation of directionality effect on very early-age compressive strength of 3D printed alkali-activated mortar using EMI technique
13:00-13:10	99N : STUDY OF DISTORTION AND SHEAR LAG EFFECT IN BOX GIRDER BRIDGE	76N : An Intelligent Framework For Damage-Informed RC Surfaces Using YOLOv12
13:10-13:15	Q&A	
13:25-14:15	Lunch	
14:15-14:45	Keynote 3: Dr. Shailesh Kr. Agrawal , Former Executive Director, Building Materials & Technology Promotion Council The Essential Need and Role of Skill Training in the Construction Industry (25+5 mins)	
14:45-15:05	Invited Speaker - 2 : Mr. Alok Bhowmick , Managing Director, B&S Engineering Consultants Pvt. Ltd. Outline of Earthquake Provisions in the Recently Revised BIS Code – IS 1893 (Part 1) : 2025	
15:05-15:35	Sponsors' Presentations (30 mins)	
Time	S-3: Innovative and Resilient Construction	S-4: Emerging Technologies: BIM, Digital Twins & Asset Management (CAM)
15:40-15:50	26 : Flexural Response of Elliptical Castellated Steel Beams with Balanced Web Perforations	3 : BIM-Enabled Asset Management Enhancing Operations through Emerging Technologies
15:50-16:00	36 : Performance of Corrugated Cold-Formed Steel Double Skin Tubular Columns in axial compression	67 : Design and Performance Optimization of RCC Structural Design Software: A Software Engineering Perspective
16:00-16:10	46 : Numerical Investigation on Voided Slab Using Abaqus for different Shapes Size and Evaluate its Response	13 : Long-Term Durability of Bio-Enhanced Sustainable Concrete with Sisal Fiber
16:10-16:15	Q&A	
16:15-16:45	Tea Break	
Time	S-5: Disaster Resilience, Repair and Rehabilitation	S-6: Innovations in Geotechnical Engineering
16:50-17:00	11 : Study of force-displacement interaction of regular and irregular RCC buildings with Base Isolation and damping system	101N : Digital Borehole Logging The Future of Geotechnical Investigations
17:00-17:20	23 : Seismic Response Control for a 65-Storey Building Using Passive Dampers	63 : Advancing Geotechnical Resilience with Seismic Cone Penetration Test
16:00-16:10	46 : Numerical Investigation on Voided Slab Using Abaqus for different Shapes Size and Evaluate its Response	13 : Long-Term Durability of Bio-Enhanced Sustainable Concrete with Sisal Fiber
17:20-17:30	33 : Nano-base isolators for Seismic Protection of High-Rise Buildings: A Comparative Study with Conventional Rubber Isolation Systems	96N : Foundation Design Challenges in Expansive Black Cotton Soils: Lessons from Bhimavaram
17:30-17:35	Q&A	
Networking Tea or Dinner from 19:00		

StructE - NatCon 2026
Theme: Towards a Safe and Enduring Built Habitat

Programme | Day 2 | 6th Feb. 2026, Friday

09:00-09:30	Panel Discussion - Industry oriented	
10:00-10:20	Invited Speaker - 3 : Prof. Mahesh Tandon , Chairman, Tandon Consultants Pvt. Ltd The Evolution of Tall Building Design	
10:20-10:50	Sponsor's Presentation (30 min)	
10:50-11:10	Invited Speaker - 4 : Dr. Satish Jain , Managing Director, UHPC India Pvt. Ltd. UHPRC"	
11:40-12:10	Tea Break	
Time	S-7: Innovative and Resilient Construction	S-8: Safe and Environmentally conscious Built Forms - Policies, Codes and Best Practices
12:10-12:20	52 : Transforming Transverse Analysis: Full-Span Shell Model Approach	90N : CROSFALL – A powerful medium for sharing information about structural failures - To create a safer built environment
12:20-12:30	55 : UHPC Testing: Effect of Platen wear on Specimen Behavior	62 : Cloud burst rehabilitation works in Leh (Ladakh), using Interlocking Soil Stabilized Earth Blocks manufactured from local soil, in year 2011- a revisit in Year 2024
12:30-12:40	56 : Crack Localization Strength of UHPC – Implications for Structural Design	77N : Towards a Safe and Enduring Built Habitat
12:40-12:50	83N : Non-destructive damage detection in bamboo specimens under various mechanical loading conditions using piezoelectric sensor	86N : Application of Analytic Hierarchy Process in Life Cycle Cost Analysis of Residential Buildings: A Case Study of Surat City
12:50-12:55	Q&A	
12:55-13:55	Lunch	
13:55-14:55	Young Engineers Program (Pecha Kucha)	
13:55-14:55	Sponsors' Presentations (20 mins)	
Time	S-9: Innovative and Resilient Construction	S-10: Disaster Resilience, Repair and Rehabilitation
16:30-16:40	5 : Mauritius Metro Project – Durable design solution for Structural Steel Warren Truss Bridge	78N : Estimation of Seismic Damage Index and Prediction Using Artificial Neural Network of RC Building Resting on Sloping Ground
16:40-16:50	37 : Influence of Polypropylene fibres on flexural strength properties of bamboo reinforced concrete	89N : Residual Fatigue Strength Assessment & Rehabilitation of Rajendra Setu, Mokama, India-Case Study
16:50-17:00	38 : Investigations on Glass Fiber Self-Compacting Concrete's Strength and Flow	85N : Seismic Retrofitting of Victoria Public Hall – a Heritage Masonry Building in Chennai
17:00-17:10	51 : Nanomaterial-Driven Strategies for Advanced Material Optimization	87N : Early Stage Prediction Of Life Cycle Cost In Residential Buildings Using Artificial Neural Network
17:10-17:15	Q&A	
17:15-19:15	Young Engineers Program (Poster+Rapid Design Competition)	

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StructE - NatCon 2026
Theme: Towards a Safe and Enduring Built Habitat

Programme | Day 3 | 7th Feb. 2026, Saturday

09:00-09:30	Key Note-5 : Dr. Harshvardhan Subbarao , CMD, Construma Consultancy Private Limited CFRP Strengthening for the Structures and the New IRC Guidelines (25+5 min)	
09:30-09:50	Invited Speaker - 5 : Dr. D. P. Kanungo , Chief Scientist & Professor (ACSIR), CSIR-CBRI A Tale of Twin Towers: Technical Insights of Safe Demolition	
09:50-10:00	Invited Speaker - 6 : Dr. Ajay Chourasia , Chief Scientist and Head, Structural Engineering & 3D Concrete Printing Group, CSIR-CBRI Joshimath: Causes, Challenges, and Lessons for a Safe Built Habitat	
10:10-10:30	Invited Speaker - 7 : Dr. Ravi Sundaram , Director, Cengrs Geotechnica Pvt. Ltd. Impact of IS: 1893 Part 1-2025 on Geotechnical Aspects	
10:30-11:30	Interactive Forum - Draft Engineers' Bill and NBC	
11:30-12:00	Tea Break	
Time	S-13: Durability and Sustainability Issues in Building Materials and Systems	S-14: Disaster Resilience, Repair and Rehabilitation
12:00-12:10	54 : Expected residual service life of reinforced concrete	79N : Optimal Design of Tuned Mass Damper for Horizontal Irregular Building Using Genetic Algorithm
12:10-12:20	58 : Performance and Durability of Reinforced Concrete A Review of Corrosion Challenges and Structural Implications	93N : Seismic Retrofitting Of A Railway Station Building Constructed On Soft Marshy Soil
12:20-12:30	88N : Alkaline Viability and Biomineralization Potential of Bacillus Species for Cementitious Applications	94N : Feasibility Assessment of Superelastic SMA Bars with Mechanical Anchorage in RC Beam-Column Joints
12:30-12:40	91N : Influence of NaOH Molarity on Red Mud-Based Ternary Geopolymer Concrete	98N : Experimental analysis on the Axial compression behaviour of Textile-reinforced brick wall/tees submission
12:40-12:45	Q&A	
12:45-13:30	Valedictory Session & Closing Ceremony	
13:30	Lunch	

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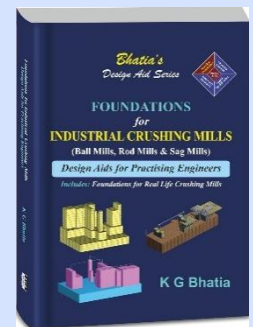
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3. **on LinkedIn**: -The group is defined as Indian Association of Structural Engineers-IAStructE
<https://www.linkedin.com/groups/6646248/>
4. **on YouTube** as **IAStructE Webinar**: - Subscribe and press bell icon
https://www.youtube.com/channel/UCvv7ojXO9Dxq1WtP_yHZTKw

Members Publications:

Dr. K. G. Bhatia, Fellow IAStructE has released "*Foundations for Industrial Crushing Mills – Design Aids for Practising Engineers*" (1st Edition, 2025). The book offers practical, step-by-step guidance for the analysis and design of crushing mill foundations, including FEM-based approaches, and serves as a handy reference for practicing engineers, academicians, researchers, and students. The book is available from D-CAD Publishers, New Delhi (₹2,500 in India; \$60 international). For orders: sales@machinefoundation.com, +91 9873003427 / +91 9873203427. The book is also available on Amazon.



Members Achievement:

Dr. Harshavardhan Subbarao, Fellow and Governing Council Member of IAStructE, Chairman & Managing Director of Construma Consultants Pvt. Ltd., and President of IABSE, was honoured by the Alumni Association of the College of Engineering, Pune, on 17 January 2026, with the prestigious 31st S. B. Joshi Memorial Award 2025, in recognition of his commendable work and invaluable contributions to the field of Bridge and Structural Engineering.



QUIZ - Test Your Structural Concepts!

This quiz is designed to generate interest in structural engineering among stakeholders and to encourage greater participation from young engineers, with each issue of the newsletter featuring three conceptual questions covering diverse aspects of the discipline. The names of the first ten participants who submit all correct answers to iastructe@gmail.com within the first three days of the newsletter's release will be published in the subsequent issue.

No reader was able to provide all correct answers to the quiz published in the December 2025 Newsletter. The correct answers are provided below for reference:

1. Minimum shear reinforcement (stirrups) is compulsory in all beams, even if the nominal shear stress (τ_v) is less than the design shear strength of concrete (τ_c). The only exception where minimum shear reinforcement is NOT mandatory is:

Answer: (c)

2. A building is considered torsionally irregular if the maximum storey drift (displacement) at one end of the structure is greater than a certain multiple of the minimum storey drift at the other end. What is this limit?

Answer: (d)

3. IS 13920: 2016 (Ductile Detailing Code) governs the detailing for seismic resistance. For the longitudinal reinforcement of a beam, the minimum tensile reinforcement ratio (ρ_{min}) is specified. This ρ_{min} is primarily intended to:

Answer: (b)

Questions for the January issue are given below: Test your knowledge and stand a chance to be featured in the next issue!

1. The following statements are related to bending of beams: (I) the slope of the bending moment diagram is equal to shear force (II) the slope of the shear force diagram is equal to the load intensity (III) the slope of curvature is equal to flexural rotation (IV) the second derivative of the deflection is equal to the curvature. The only wrong statement is

- a) I
- b) II
- c) III
- d) IV

2. In propped cantilever beam of length L , with fixed end as A and hinged end as B carrying a uniformly distributed load over the entire length, the plastic hinge is formed at

- a) B
- b) $L/2$ from B
- c) $0.414L$ from B
- d) $0.414L$ from A

3. A reinforced concrete beam supported on columns at ends has a clear span of 5 m and 0.5 m effective depth. It carries a uniformly distributed load of 100 kN/m . the design shear force for the beam is

- a) 275 kN
- b) 375 kN
- c) 550 kN
- d) 175 kN



Call for papers for the theme-based issue of SED journal:

SED Editorial Board invites article contributions for the forthcoming issues of the Structural Engineering Digest on the following themes, which shall be published in e-book format.

- 1. Role of Digital Technology in Structural Engineering**
- 2. Dam and Hydropower Structure**
- 3. Connections**

Interested professionals may send their full paper on any of the above issues along with their photograph and brief resume at the earliest convenience. Articles are invited from i) Members of IAStructE; ii) Specialists in the field even though they are not members of IAStructE. These thematic issues aim to provide valuable insights, highlight emerging trends, and promote knowledge sharing within the structural engineering community.

Call for papers for CROSFALL:

CROSFALL is a newsletter created by Indian Association of Structural Engineers (IAStructE). Its purpose is to share lessons learnt from structural failures, near-misses and safety concerns. The objective is to help create a safer built environment, enhance industry knowledge, and mitigate future risks by sharing real-life failure case studies with expert analysis. We expect professionals reading these newsletters to use these informations in their design to make safer structures. CROSFALL is greatly encouraged and inspired by CROSS (Confidential Reporting on Structural Safety), UK, which is a collaborative effort of three institutions (IStructE, ICE and IFE). There is however no connection between CROSFALL-IAStructE and CROSS-UK.

CROSFALL Editorial Board invites reports for the forthcoming issues. Interested candidates can sent the reports about structural safety issues related to all types of structures (i.e. buildings, bridges, tunnels, industrial structures etc.) in the built environment. The reporting can be related to:

- *Structural failures,*
- *Poor Design and Detailing, Lack of Seismic Safety in planning*
- *Safety concerns about high risk erection schemes at Site; Safety concerns on Temporary Works*
- *Near misses, or observations relating to procedures followed at site, which may lead to failures or collapses.*
- *Unethical practices in the profession*

Reports do not have to be about current activities so long as they are relevant. Small scale events are equally important - they can be the precursors to more major failures. Report might relate to a specific experience or it could be based on a series of experiences indicating a trend. No concern is too small to be reported and conversely nothing is too large. Reports should aim to include information that will help others to learn from the safety issue identified.

To submit the report please go through the following link: www.iastructe.co.in/crosfall.php



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IAStructE Monthly Newsletter (being published in PDF format)

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Full Page	Rs. 10,000 per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking	9.5-inch x 7 inch
Half Page	Rs. 7,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking.	4.75-inch x 7 inch
1/8th of a Page	Rs. Rs. 2,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half-yearly, and 30% rebate for yearly bookings. (Only for IAStructE Members)	Standard size of Business Card

Accredited Structural Engineers (ASE – IAStructE):

The IAStructE Accreditation Program for Accredited Structural Engineers (ASE – IAStructE) is designed for experienced structural engineers with a strong understanding of Indian design codes and standards. The entire program would be on the basis of a two-stage process consisting of an interview for the assessment of Initial Professional Development (IPD) followed by a written examination based on actual problem-solving. Both stages are mandatory to clear the assessment process and thus to get recognition. An Accredited Structural Engineer – IAStructE is someone who wishes to:

- validate their comprehensive experience and understanding of all types of structural engineering work and managerial capabilities
- demonstrate their competence on the basis of IPD and Continuous Professional Development activities in the field

The complete information about the entire process along with the application form and annexures can also be obtained from a booklet, which can be downloaded from the following link: <https://www.iastructe.co.in/ase-iastructe-accreditation.php>

Subscribing membership of fib through IAStructE:

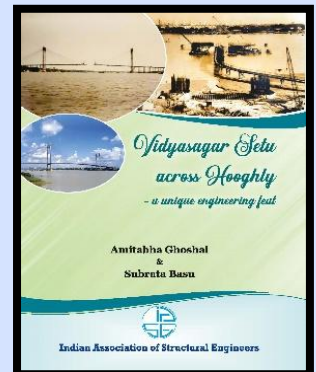
Fib has started inviting the membership subscription for 2026. There are many benefits available for IAStructE members and others who want to become subscribing members of *fib* through IAStructE. Fees for subscribing members through IAStructE: The discounted fees exclusively for the IAStructE members to become the “subscribing members” of *fib* shall be Rs 24,000.00 (CHF 250.0 approx.) as against CHF 465 for the Non-IAStructE members. The procedure to get the subscribing membership of *fib* for the year 2026 is as follows:

1. Interested members can remit the membership amount of Rs 24,000 (i.e. CHF 250) + 18% GST to IAStructE.
2. On the last day of every month, the contact details of those members who made the payment and want to be subscribing members will be sent to the *fib*.
3. The subscribing membership of *fib* will be valid for the calendar year up to December 31, 2026

IAStructE Publications:

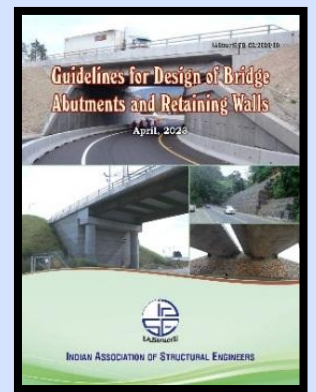
1. Book on Vidyasagar Setu across Hooghly – A unique engineering feat:

The book is about the story of an iconic bridge structure - the Vidyasagar Setu, initially known as the Second Hooghly Bridge (or crossing). The authors Mr. Amitabha Ghoshal and Mr. Subrata Basu have created an engaging narrative that covers both the engineering as well as the other related issues in lucid detail. The book is available for Sale @ Rs 1200/- + Rs 150/- (postal charges). IAStructE Members are entitled to a discount of 10% on the book price. Interested professionals who wish to purchase the book may contact us at iastructe@gmail.com.



2. Guidelines for Design of Bridge Abutments and Retaining Walls:

This document will assist practicing bridge and structural engineers in building confidence in the design of these structures, which offers tools for the design of economic and innovative retaining structures. The document is rich in theoretical explanations and draws on much experience of the authors. Worked examples further illustrate the application of the applicable codes and should promote better understanding. The document is available for sale @ Rs. 1500/-. Interested professionals who wish to purchase this document may kindly contact IAStructE Secretariat at iastructe@gmail.com. Members of IAStructE will be entitled for a discount of 10% on the price.



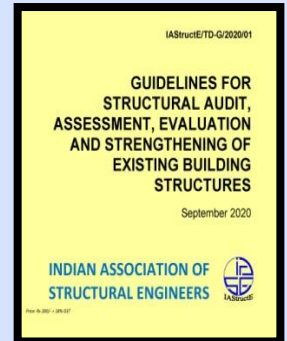
3. Commentary with Worked Examples for IRC: 6-2017:

It is a document having commentary with worked example on IRC: 6-2017 (The code for Loads & Load Combinations for design of Highway Bridges). This commentary is in two separate volumes. Volume-1 pertains to the Commentary while Volume-2 pertains to Illustrative Worked Examples. It has 48 worked examples demonstrating application of various codal clauses. The documents are available for sale @ Rs. 1200/- for Volume 1, and @ Rs. 800/- for Volume II. Members of IAStructE and IRC will be entitled for a discount of 10% on the price. Interested professionals who wish to purchase the commentary may kindly register with the following link or contact IAStructE Secretariat at iastructe@gmail.com

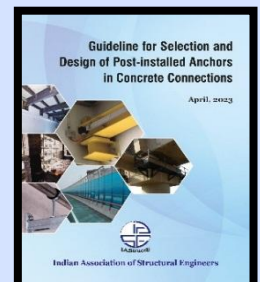
IAStructE/TD-CC/2020/02	IAStructE/TD-CC/2020/01
<p>COMMENTARY WITH WORKED EXAMPLES FOR IRC:6-2017</p> <p>STANDARD SPECIFICATIONS AND CODE OF PRACTICE FOR ROAD BRIDGES SECTION II : LOADS & LOAD COMBINATIONS (SEVENTH REVISION)</p> <p>NOVEMBER 2020</p> <p>VOLUME 2 OF 2 : ILLUSTRATIVE WORKED EXAMPLE</p>	<p>COMMENTARY WITH WORKED EXAMPLES FOR IRC:6-2017</p> <p>STANDARD SPECIFICATIONS AND CODE OF PRACTICE FOR ROAD BRIDGES SECTION II : LOADS & LOAD COMBINATIONS (SEVENTH REVISION)</p> <p>NOVEMBER 2020</p> <p>VOLUME 1 OF 2 : COMMENTARY</p>

Registration link: <http://iastructe.co.in/new-iastructe-publication.php>

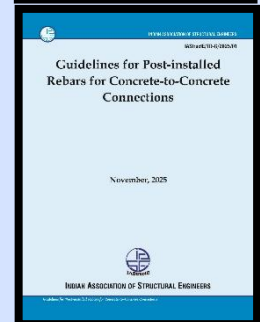
4. Guidelines for Structural Audit, Assessment, Evaluation and Strengthening of Existing buildings Structures: This document will guide structural engineers in proper assessment of building structures before issuing structural stability certificate. The Guideline emphasizes the urgent need to enhance building resilience against earthquakes and other hazards, ensuring structures nationwide remain safe from disaster risks. The price of this e-document is Rs 200/-. Interested professionals, who wish to obtain the soft version of the Guideline in pdf format, may register with the following link. Registration Link: <http://iastructe.co.in/guidelines-for-structural-audit.php>



5. Guideline for Selection and Design of Post-installed Anchors in Concrete Connections: This document covers post-installed anchors, including their types, behavior, working principles, failure modes, and design steps for both non-seismic and seismic conditions. It also includes illustrative design examples. Available at www.iastructe.co.in under IAStructE Professional Documents, members can access it after logging in.



6. Guidelines for Post-installed Rebars for Concrete-to-Concrete Connections: In this document, design methods for non-seismic and seismic situations, specifications, guidelines on installation and inspections of post-installed bars are covered. A few illustrative design examples too are presented for better understanding of design methodology.. Available at www.iastructe.co.in under IAStructE Professional Documents, members can access it after logging in.



7. Commentary on IS: 13920 and Commentary on IS: 1893 Part 1: The commentary is available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.

IAStructE Library:

IAStructE has set up a library at K-69 A, Basement Kalkaji, New Delhi. It has a collection of good technical books and journals related to civil & structural engineering. Members staying in the vicinity are encouraged to utilize this facility, and if you want to contribute your books and journal to the library you are always welcomed. Please be noted that we have recently received the documents, Design & Construction—Concrete Structures 2024, bulletins 111 and 112 from fib, which are available at the IAStructE library. Interested members may come to take the opportunity to read the publications.



View of IAStructE Library



About IAStructE:

Indian Association of Structural Engineers (IAStructE) is the national apex body of structural engineers in India established with the objective to cater to the overall professional needs of structural engineers. The association has become the source of expertise and information concerning all issues that involve structural engineering and public safety within the built environment. It has no commercial aim or objective. IAStructE is purely a professional learned society with the prime objective of supporting and protecting the profession of structural engineering by upholding professional standards and acting as a mouthpiece for structural engineers. IAStructE endeavors to ensure that its members develop the necessary skill in structural engineering and work to the highest standards by maintaining a commitment to professional ethics and standards within structural engineering. IAStructE strives for continued technical excellence; advancing safety and innovation across the built environment. It also strives to make available to the Government, Public Sector and Private Sector - a credible source of well qualified and experienced Structural Engineers. A nationwide database of Structural Engineers has been compiled and is being constantly updated. IAStructE undertakes a broad range of technical activities which are aimed at information sharing and capacity building. The association provides opportunity for all the members to develop various skills in structural engineering and helps members to be at the forefront of structural engineering practice. Towards achievement of its aims and objectives, IAStructE is engaged in organizing the following: CPD Courses for Professionals at all levels Refresher Courses for Fresh Graduate Engineers, Student's orientation program, Seminars/Workshops, Technical Lectures by Experts, Technical Discussions on Contentious Issues. IAStructE is currently operating from four regional centers. These regional centres located in the Eastern, Western, Northern and Southern parts of the country effectively cater to the professional needs of members residing/practicing all over the country.

Membership Benefits:

Membership of IAStructE is a sought-after professional accreditation. Your membership of IAStructE can help you enhance your intellectual, academic, technical and professional status. It provides inter connectivity to the fellow professionals and the fraternity. Some of the benefits of membership is provided below:

- ★ Complimentary magazine subscription: All members (except Student Members) receive a complimentary subscription to the Institution's flagship publication 'Structural Engineering Digest' (SED). Published quarterly, each issue allows members to remain connected to the association through the provision of technical papers, Industry and Institution News, featured articles, Professional Guidance on everyday matters affecting the practicing structural engineers.
- ★ Access to the professional documents
- ★ Access to all Technical Lectures, organized every month, at no charge
- ★ Access to Technical Discussions held regularly
- ★ Access to the association's library (Including e-library)
- ★ Discounts in attending Seminars and Workshops organized by the association
- ★ Full on-line access to the current volume and entire e-archive of journal "Structural Engineering Digest (SED)", Refresher Course Materials, Technical Lectures, E-Newsletters and other Technical Resources of the Association.
- ★ Opportunity to network with professional structural engineers of eminence and to meet potential employers in the association.
- ★ Opportunities for professional development

How to become a member?

Membership form and details are available at <https://www.iastructe.co.in/membership-grades.php>; for more information and other details contact the Indian Association of Structural Engineers Secretariat

Indian Association of Structural Engineers
K-69A, Basement, Kalkaji, New Delhi 110019

Tel: (011) 45794829; Email: iastructe@gmail.com; Website: www.iastructe.co.in