

ABOUT THE COURSE

There has been an increased awakening among professionals, owners, builders, planners and the society at large about the importance of earthquake safety of bridges and structures. At the same time, there has also been constant research & studies in the field of earthquake science and seismic engineering, necessitating updating of codes and standards from time to time.

IRC:SP:114-2018 has been recently published by the Indian Roads Congress (IRC) in lieu of clause 219 of IRC:6-2017, bringing into the state of practice, the progress made in research, scientific and technological development globally. With the publication of this document, the provisions of clause 219 of IRC:6-2017 stands withdrawn and all new highway bridges are supposed to be designed to conform to provisions of this new guideline. Highway Bridge Engineers have to now change their working practice on seismic. They have to understand the substantive changes in the latest code quickly, change their worksheets. Academicians have to change their lecture notes and also explain the genesis behind these changes. In order to facilitate this process, IAStructE has taken this initiative of introducing this new publication to the structural engineers. This is a part of IAStructE's CPD activity

IAStructE aims to bring together bridge consultants, clients, contractors, academicians, policy makers and associated government agencies to discuss the impact of this newly released guideline / code. This 6-day workshop will give ample opportunity to all participants to interact directly with the persons involved in writing this code and gain knowledge through interaction and networking events.

WHO SHOULD ATTEND

- * Practicing Civil/Structural Engineers employed in Government / Public and Private Sector / Individual Consultancy Firms
- * Academicians, Civil/Structural Engg. Students, Civil Engineers planning to join Structural Engg. Profession
- * Real Estate Developers / Architects / Contractors & Builders

CONTINUING EDUCATION

Continuing Education of practicing as well as serving professional engineers is an integral part of their overall professional development. Professional Engineers undertake continuing education activities to extend or update their knowledge, skill or judgement in their areas of practice. This enables them to: * Enhance their Productivity * Understand and Apply Advances in Technology * Face Changes in Career Direction * Better Serve the Community and / or their Employing Organization. All progressive minded modern professional firms/ organizations encourage their professional staff to participate in continuing education because this enhances the professional credibility of the organization.

ABOUT IAStructE

Indian Association of Structural Engineers (IAStructE) is 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 objective. IAStructE has signed MoU with Institution of Structural Engineers (IStructE) of UK, Japan Society of Seismic Isolation (JSSI), The Institution of Civil Engineers (ICE) of UK, Structural Engineers Association of Northern California (SEAONC), Structural Engineers Association of Nepal (SEANeP) for exchange of information and promotion of Structural Engineering profession.

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 in India.

IAStructE endeavors to ensure that the 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.

The association provides opportunity for all the members to develop 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
- Refresher Courses for young engineers
- Student's orientation program
- Seminars/Workshops
- Technical Lectures & Technical Discussions

IAStructE is currently operating from four regional / state centers. These regional centers are located in the Eastern, Western, Northern and Southern parts of the country.

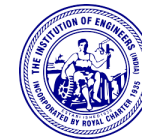


Workshop on "Application of New Seismic Code for Highway Bridges - IRC:SP:114-2018"



Starting from **7th March 2020**
to be Concluded on **11th April 2020**
(Classes will be held every Saturday)

SUPPORTED BY



The Institution of Engineers (India)
Belapur Local Centre

Venue

Auditorium, The Institution of Engineers (I)
Plot No 106, Sector 15, CBD Belapur, Navi Mumbai

SECRETARIAT CONTACT:

K-69 A, Basement, Kalkaji New Delhi 110019
Tel. 011-45794829, E-mail iastructe@gmail.com
Website : <http://iastructe.co.in>

Workshop on “Application of New Seismic Code for Highway Bridges - IRC:SP:114-2018”

Lecture Dates : Starting, 7th March 2020, Classes will be held on every Saturday till 11th April 2020. *(Lecture Plan attached)*

Time : 9:00 AM - 1:15 PM (4 hrs lecture)
Tea Break (11:00 AM – 11:15 AM)

Venue : Auditorium, The Institute of Engineers (I), Plot No 106, Sector 15, CBD Belapur, Navi Mumbai

Course Coordinator : **Mr. Umesh Rajeshirke**
Vice President (West), IAStructE & MD – Spectrum Techno Consultants Pvt Ltd

PARTICIPATION FEES

IAStructE/IEI members : Rs 8,000/- + GST @ 18%

IAStructE Student members : Rs 2,000/- + GST @ 18%

Students (non member) : Rs 4,000/- + GST @ 18%

Non Members : Rs 10,000/- + GST @ 18%

- Early bird discount of 10 % is available till 15th February 2020

SPONSORSHIP OPTIONS

Entitlements	Contribution	
	INR 1,00,000	INR 50,000
Presentation Slot	15 mins.	N.A.
Complimentary delegate/s	Two	One
Distribution of catalogues	Yes	Yes
Advertisement in SED <i>(an official publication of IAStructE)</i>	Full Page	Full Page

(Note: For sponsors the GST payable on reverse charge)

TOPICS TO BE COVERED

1. An Overview of the New Seismic Code IRC:SP:114
2. Brief History of Seismic Code in IRC and introduction to new guideline on Seismic Design of Bridges (Chapter 2)
3. Conceptual Design of Bridges (Chapter 3)
4. Seismic Induced forces & Site Conditions (Chapter 4)
5. Seismic Analysis Methods (Chapter 5)
6. General Design Provisions (Chapter 6)
7. Seismic Design Methods (Chapter 7)
8. Design of Bridge Components (Chapter 8)
9. Ductile Detailing of Structures (Chapter 9)
10. Seismic Isolation Devices (Chapter 10)
11. Assessment of Liquefaction Potential and Hydrodynamic loading with Worked Example
12. Illustrative Worked Examples: ESAM & ERSM

FACULTY (Subject to Confirmation)

- **Er. A. K. Banerjee**, *Convenor, B-2 Committee (IRC)*
- **Er. Alok Bhowmick**, *President IAStructE & MD - B&S Engineering Consultants Pvt Ltd*
- **Prof. Mahesh Tandon**, *MD- Tandon Consultants Pvt Ltd*
- **Dr. Harshavardhan Subbarao**, *Vice President IABSE & CMD - Construma Consultancy Pvt Ltd*
- **Er. Nirav Mody**, *Director -Spectrum Techno Consultants Pvt Ltd*
- **Er. Umesh Rajeshirke**, *Vice President (W) IAStructE & MD - Spectrum Techno Consultants Pvt Ltd*
- **Er. Sandeep Pattiwar**, *Director-Tech Tangent Solutions Pvt Ltd*
- **Er. Rizwan Mohm. Shaik**, *Spectrum Techno Consultants Pvt Ltd*
- **Er. Vinay Gupta**, *Director & CEO - Tandon Consultants Pvt Ltd*
- **Er. P. G. Venkatram**, *CEO- L&T Infra Engineering Ltd*
- **Er. Chinmay Gokhale**, *Spectrum Techno Consultants Pvt Ltd*
- **Er. Ajay Tank**, *Spectrum Techno Consultants Pvt Ltd*

REGISTRATION FORM

WORKSHOP ON
“Application of New Seismic Code for
Highway Bridges - IRC:SP:114-2018”
Starting from 7th March 2020

Name: _____

Designation: _____

Firm/Organization: _____

Address: _____

Mob./ Tel.: _____

Email: _____

Signature: _____

Reserve your seat by sending this form to the [IAStructE Secretariat, K-69A, Basement Kalkaji, New Delhi 110019](mailto:iastructe@iastucte.org) along with the Cheque / DD or through email at iastructe@gmail.com with NEFT transaction particulars.
(Please use separate registration form in case of more than one participant)

Payment Details:

Through NEFT or A/c payee cheque/Bank Draft
No..... Dated:; Drawn on Bank:
..... for Rs
(in words)
favoring “**Indian Association of Structural Engineers**”,
payable at New Delhi, is enclosed.

BANK PARTICULARS

Beneficiary Name: **Indian Association of Structural Engineers**
Account Number: **10151200388**, IFSC: **SBIN0007196**
MICR: **110002034**; Bank Name: **State Bank of India**;
Branch Code: **07196**; Branch Address: **Flyover Market, Defence Colony, New Delhi 110024**



Indian Association of Structural Engineers

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Tel:(011) 45794829; E-mail: iastructe@gmail.com; Web: www.iastructe.co.in

Workshop on Application of New Seismic Code for Highway Bridges - IRC:SP:114-2018

Venue: The Institution of Engineers (India), Plot No 106, Sector 15, CBD Belapur, Navi Mumbai

Time : 09:00 AM to 01:15 PM; Tea Break (11:00 AM to 11:15 PM)
Duration : Four hours every week on Saturday (from 7th March 2020 to 11th April 2020)
Course Coordinator- Mr. Umesh Rajeshirke, Vice President (West) IAStructE & Managing Director, Spectrum Techno Consultants Pvt Ltd

LECTURE NO.	TOPICS	SUGGESTED FACULTY*	DATE
Lecture 1 09:00 AM - 11:00 AM	An Overview of the New Seismic Code IRC:SP:114	Er. A. K. Banerjee <i>Convenor, B-2 Committee (IRC)</i>	7th March 2020
Lecture 2 11:15 AM - 01:15 PM	Brief History of Seismic Code in IRC and introduction to new guideline on Seismic Design of Bridges	Er. Alok Bhowmick <i>President IAStructE & MD - B&S Engg Consultants Pvt Ltd</i>	
Lecture 3 09:00 AM - 11:00 AM	Conceptual Design (Chapter 3) Seismic Induced forces & Site Conditions (Chapter 4), Assessment of Liquefaction Potential	Prof. Mahesh Tandon <i>MD, Tandon Consultants Pvt Ltd</i>	14th March 2020
Lecture 4 11:15 AM - 01:15 PM	Seismic Analysis Methods (Chapter 5) General Design Provisions (Chapter 6)	Dr. Harshavardhan Subbarao <i>CMD, Construma Consultancy Pvt Ltd</i>	
Lecture 5 09:00 AM - 11:00 AM	Seismic Design Methods (Chapter 7)Part 1	Er. Nirav Mody <i>Director, Spectrum Techno Consultants Pvt Ltd</i>	21st March 2020
Lecture 6 11:15 AM - 01:15 PM	Seismic Design Methods (Chapter 7)Part 2	Er. Umesh Rajeshirke <i>Vice President (W) IAStructE & MD, Spectrum Techo Consultants Pvt Ltd</i>	
Lecture 7 09:00 AM - 11:00 AM	Design of Bridge Components (Chapter 8)	Er. Sandeep Pattiwar <i>Director, Tech Tangent Solutions Pvt Ltd</i>	28th March 2020
Lecture 8 11:15 AM - 01:15 PM	Ductile Detailing in Bridges (Chapter 9)	Er. Rizwan Mohm. Shaik <i>Spectrum Techno Consultants Pvt Ltd</i>	
Lecture 9 09:00 AM - 11:00 AM	Seismic Isolation Devices (Chapter 10)	Er. Vinay Gupta <i>Director & CEO - Tandon Consultants Pvt Ltd</i>	4th April 2020
Lecture 10 11:15 AM - 01:15 PM	Seismic Isolation Devices: Illustrative Worked Examples	Er. P. G. Venkatram <i>CEO, L&T Infra Engineering Ltd</i>	
Lecture 11 09:00 AM - 11:00 AM	Assessment of Liquefaction Potential and Hydrodynamic loading with Worked Example	Er. Chinmay Gokhale <i>Spectrum Techno Consultants Pvt Ltd</i>	11th April 2020
Lecture 12 11:15 AM - 01:15 PM	Illustrative Worked Examples: ESAM & ERSM	Er. Ajay Tank <i>Spectrum Techno Consultants Pvt Ltd</i>	

* The faculty shown above is tentative, subject to their confirmation and availability