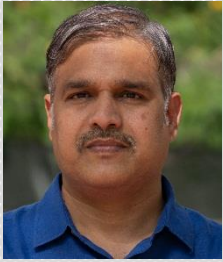




MESSAGE FROM THE PRESIDENT



Dear Friends,

Greetings!!

I am very happy to present to you the Newsletter of October 2023. You shall be happy to know that IAStructE is regularly organizing technical lectures, webinars, and publication of newsletters, CROSFALL & Structural Engineering Digest. You may find details of such activities and publications in this newsletter and on our website.

Structural Engineering Digest (SED) July-September 2023 issue is dedicated to the "Structural Safety Audit" theme. The fourth issue of CROSFALL is getting ready and will be released soon. You may contribute any case study on structural failure or description of a near-miss case for publication in future issues. Our various technical committees are working hard to bring technical documents relevant to the structural engineering fraternity.

An online lecture on "Engineering Tallest Bungy Jump Tower at Shivpuri Rishikesh: Himalayan Bungy" was conducted on October 26, 2023. It was delivered by the Dr. Abhay Gupta, Director, Skeleton Consultants Pvt. Ltd., Fellow IAStructE and Ar. Khushbu Davda, Principal Architect, Studio Emergence. IAStructE DTU Student Chapter has organized a Webinar on "Seismic Strengthening of Masonry Structural Components using Fibre Reinforced Polymer Composites" on 05 October 2023. IIIT Hyderabad student chapter organized a technical lecture on "Futuristic Construction Chemicals for Rapidly Growing Construction Industry" by Dr. Muralidhar Kamath, General Manager, Technical Services, Apple Chemie India Private Ltd. on 11 October 2023 through online.

Please send your feedback on our activities and suggestions for further improvements.

Best Regards,

Ramanchand

Prof. R. Pradeep Kumar
President-IAStructE

FROM THE EDITOR'S DESK



Dear Readers,

Greetings and a warm welcome to this month's newsletter! With the year gradually winding down, we're thrilled to bring you a host of exciting updates and valuable insights. As we immerse ourselves in the autumn spirit, you can look forward to the freshest seasonal highlights, engaging discussions on compelling subjects. Brace yourself for upcoming events and immerse yourself in our cutting-edge initiatives. Join us in staying connected, well-informed, and thoroughly inspired throughout the month of November.

Thanks and regards,

Visalakshi

Prof. Visalakshi Talakokula

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Online Event:

Lecture on "Engineering Tallest Bungy Jump Tower at Shivpuri Rishikesh: Himalayan Bungy"

An online lecture on "Engineering Tallest Bungy Jump Tower at Shivpuri Rishikesh: Himalayan Bungy" was on October 26, 2023. It was delivered by the Dr. Abhay Gupta, Director, Skeleton Consultants Pvt. Ltd., Fellow IAStructE and Ar. Khushbu Davda, Principal Architect, Studio Emergence. Attendees of the presentation acquired insights into the challenges associated with designing the Bungy, encompassing aspects such as site conditions, design safety, seismic circumstances, wind factors, and more. Dr. R. Pradeep Kumar, President of IAStructE, was also present during the lecture.

You tube Link: <https://www.youtube.com/live/qep5JKhe1lc>

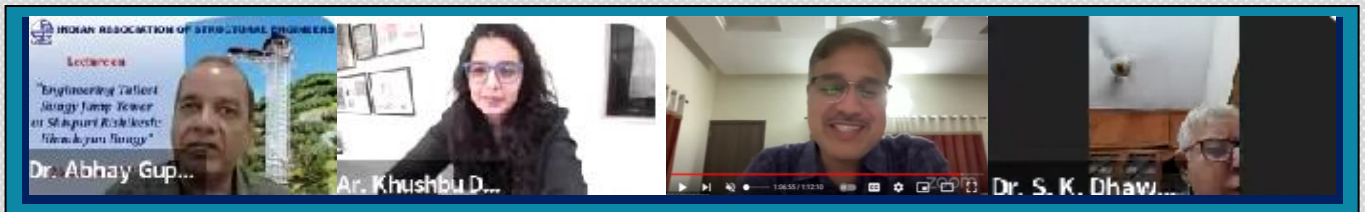


Fig.1 Glimpses from the online lecture

IAStructE Student Chapters Activities:

IAStructE DTU Student Chapter events:

1. Tittle of the event: Webinar on "Seismic Strengthening of Masonry Structural Components using Fibre Reinforced Polymer Composites"

Date & Venue: 05 October 2023 through online

Proceedings of the event: IAStructE DTU Student Chapter, Department of Civil Engineering organized a live webinar on "Seismic Strengthening of Masonry Structural Components using Fibre Reinforced Polymer Composites". The speaker covered the use of fiber reinforced polymer (FRP) systems in reinforced concrete structural elements and was presented by a subject matter expert in the field. The remarkable performance of these materials, including their resistance to extreme weather conditions like high temperatures and freezing/thawing cycles, was a major topic of discussion. Additionally, the presentation offered insightful information about bonding agents that are combined with FRPs. Additionally, the study provided a thorough understanding of the different limitations, difficulties, and knowledge gaps related to the efficient, durable, and sustainable application of fiber-reinforced polymers (FRPs) in civil infrastructure. Thus, this event provided a forum for the sharing of knowledge and the investigation of new developments in seismic strengthening methods for masonry structural elements.

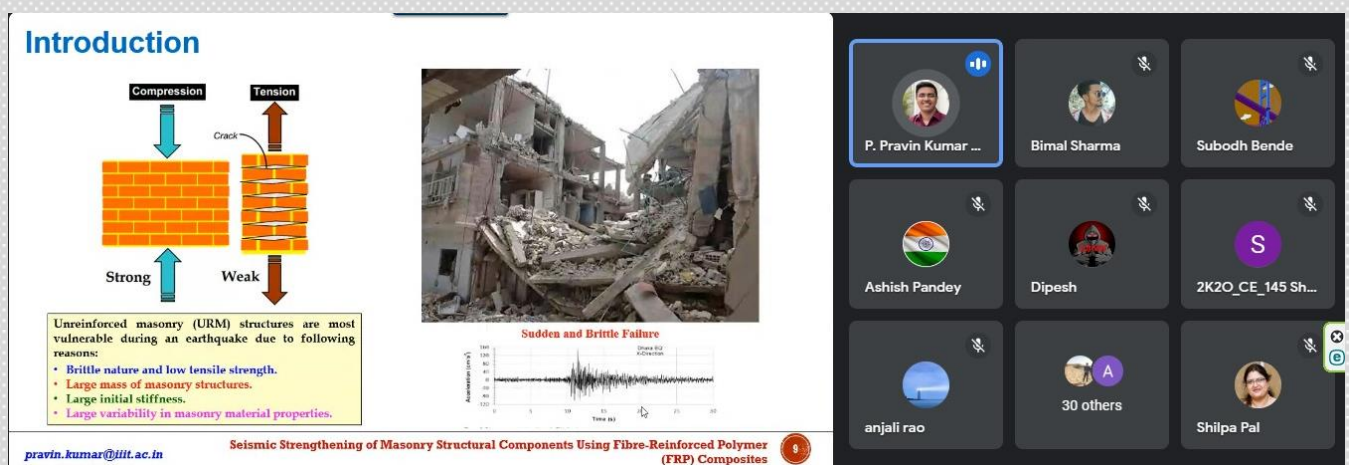


Fig.2 Glimpses of online event

IAStructE – IIIT, Hyderabad Student Chapter event:

2. Tittle of the event:Lecture on “Futuristic Construction Chemicals for Rapidly Growing Construction Industry”

Speaker:Dr. Muralidhar Kamath, General Manager, Technical Services, Apple Chemie India Private Ltd.

Date & Venue:11 October 2023 through online

Proceedings of the event: The speaker provided a comprehensive overview of essential aspects related to admixtures, with a specific focus on crystalline admixtures like AC Crystacrete. He delved into the testing process and established a direct correlation between the durability and permeability of Crystacrete. Additionally, he offered a detailed explanation of the projected service life, along with an outline of the methods and stages involved in the application of Crystalline Solutions to concrete. During his presentation, he succinctly summarized the key advantages of Crystacrete and its practical applications, highlighting its use in significant construction projects, including the Delhi and Mumbai Metro systems and the construction of Chhatrapati Shivaji Maharaj International Airport in Mumbai.

The presentation involved a thorough examination of polymer-based admixtures, with a specific emphasis on characterizing plasticizers and superplasticizers. The speaker also delved into the topic of curing compounds and protective coatings. He provided clear insights into sealants, including their applications and the advantages they offer. Additionally, the lecture included an introductory discussion on corrosion inhibitor solutions, addressing the characterization of both organic and inorganic corrosion inhibitors, their impact on corrosion, and the benefits of incorporating corrosion inhibitors.

To conclude the presentation, Dr. Kamath discussed microsilica and highlighted recent product developments such as 3D printing concrete, graphene-based concrete, internal curing, and underwater curing. These emerging concrete technologies aim to support the rapidly growing construction industry. The webinar was completed with an engaging and insightful discussion, with active participation from the attendees. This discussion enriched the overall exploration of the topic and its significance in the rapidly growing construction industry in India.

YouTube link: <https://www.youtube.com/watch?v=V2K1hjF-l-Q>

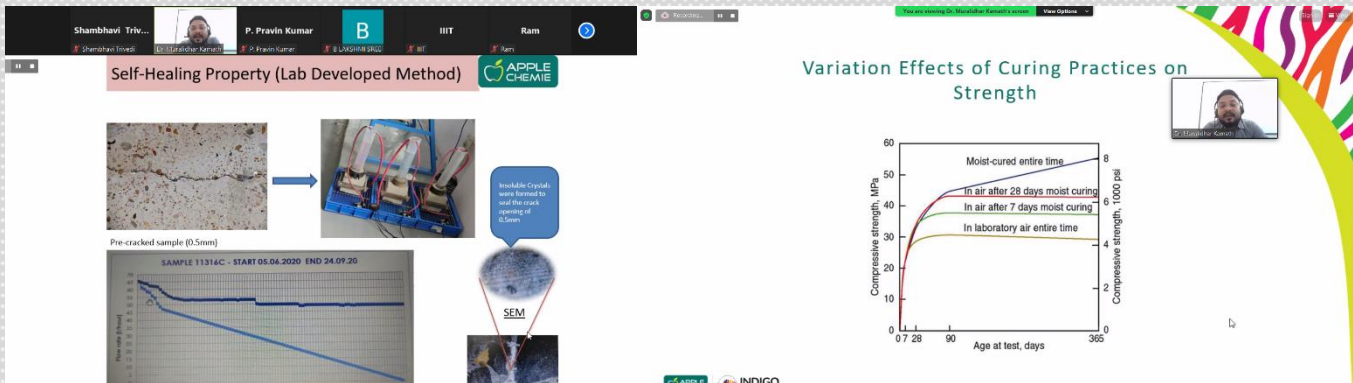


Fig. 3 Glimpses from online webinar

Forthcoming Events:

Event	Speakers	Date &Timing	Place
2nd Mahendra Raj Memorial Lecture, IAStructE Awards Ceremony & Structural Engineers Day Celebrations(Physical) Registration form: https://forms.gle/NKpNwpdGEBGWdjPXA	Prof. Mahesh Tandon & Prof. C. V. R. Murty	November 17, 2023 From 09:30 a.m. to 01:00 p.m.	LPS Auditorium, PHD House: 4/2, Siri Institutional Area, August Kranti Marg, New Delhi

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.



Fig 5 IAStructE Library

New Members:

“Associate Member” Grade

M/S No	Name	Designation, Organization	State
AM-441	Mr. Ujjwal Sharma	Self Employed Structural Design Engineer atUjjwal Bharat	Punjab
AM-442	Mr. Kumaresh Halder	Assistant Design Engineer at DUTTCON Consultant & Engineers Pvt. Ltd.	West Bengal
AM-443	Mr. Praveen Medar	Self Employed Structural Design Engineer	Karnataka

“Student Member” Grade

31Students: CEPT, University

Call for IAStructE National Award Competition 2023:

Call for Nominations: IAStructE is calling for nominations for the 2023-National Awards Competition. The nominations forms for various categories can be downloaded from the links given below. The last date for receipt of nomination has been extended till 15th December 2023.

Registration Link: <https://www.iastructe.co.in/iastructe-national-awards-2023.php>

**Indian Association of Structural Engineers****IAStructE National Awards Competition 2023****Call for Nomination**

The Indian Association of Structural Engineers (IAStructE) is a prominent national professional body of structural engineers in India dedicated to the overall development of structural engineering in India. Its activities & publications are known for rich & relevant technical contents. It represents the profession on policy matters. The National Awards Competition by IAStructE is held every year to recognize the contribution of structural engineers and to promote structural engineering excellence.

Nominations are invited for IAStructE National Awards Competition 2023 in the following Categories:

(Instructions & Terms are given in the nomination forms of each category)

1. OUTSTANDING STRUCTURE OF THE YEAR (Two Awards)
 - i) Buildings: Residential, Commercial, Industrial, Hospitals, Schools etc.,
 - ii) Structures other than buildings: Bridges, Large span space structures for sports, exhibitions etc, Industrial structures, Hydraulic Structures, Monuments, Tall towers etc.
2. OUTSTANDING STRUCTURAL ENGINEER AWARD (One Award)
3. OUTSTANDING WOMAN STRUCTURAL ENGINEER AWARD (One Award)
4. PROMISING YOUNG STRUCTURAL ENGINEER AWARD (One Award)
5. BEST MASTER'S THESIS IN STRUCTURAL ENGINEERING (One Award)

(Download nomination forms from the link given below - Kindly read instructions carefully before submission)

<https://www.iastructe.co.in/iastructe-national-awards-2023.php>

The Awards

- All Awards shall consist of a Plaque along with a Certificate & Citation. The Best Master's Thesis Awardee will also get a cash prize of Rs. 20,000/-.
- The Award Winners can use the IAStructE logo on their print and promotion material by mentioning the year of the award and the name of the Indian Association of Structural Engineers.
- The Jury can cancel or alter the number of awards as stipulated above.

Last date of receipt of nominations has been extended to 15th December 2023

INDIAN ASSOCIATION OF STRUCTURAL ENGINEERS

K-69 A, Basement, Kalkaji, New Delhi - 110019

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

Message from IAStructE social media & Digitization Committee

Let's get "***DIGITIZED***"

With all new look of our website and media handles, please follow us on all major media platforms. For joining us, below mentioned links to be pasted in browser. Let's join hands together to promote the profession of Civil Engineering.

1. **on TWITTER as IAStructE:** - <https://twitter.com/iastructe>
2. **on Facebook as IAStructE:** - <https://www.facebook.com/IAStructE-100114022302316>
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

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. 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 send 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.*

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

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

SED Editorial Board invites article contributions for the forthcoming issue of the Structural Engineering Digest on the following theme, which shall be published in e-book format. Details are as under:

October-December 2023 issue: Theme: Tunnel/Underground Structures

Guest Editor: Mr. Partha Banerjee

Sub-theme:

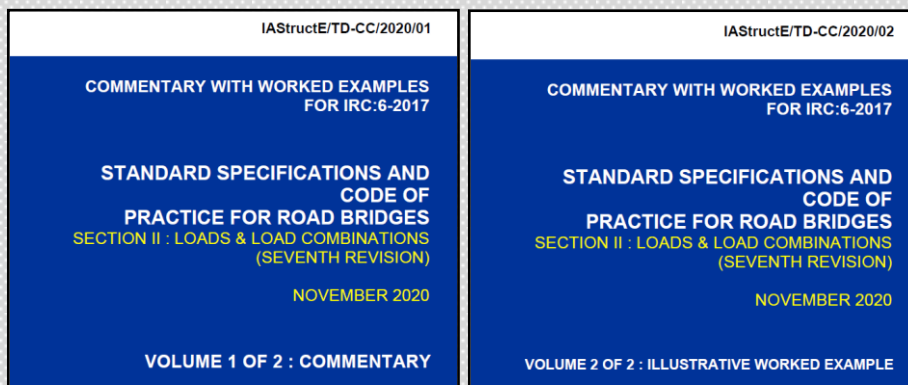
- Tunnel Design: TBM, NATM, Cut & Cover and Cross Passage
- Tunnel Construction: TBM, NATM, Cut & Cover and Cross passage
- Underground Station Design
- Underground Station Constructions
- Instrumentation & Monitoring and Damage Assessments
- Geophysical Investigation in Urban Area

Interested professionals may send their abstract along with the full paper on any of the above issues along with their photograph and brief resume latest by 15 November 2023 or 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.

Interested authors/contributors may kindly mail to iastructe@gmail.com regarding i) Broad guidelines on areas of coverage; ii) size of the article; iii) format of paper submission. As per the laid down procedures all the papers shall be sent to the referee for review and the comments will be informed to the authors for incorporating the same. Papers shall be published after peer review & approval of SED editorial board.

IAStructE Publications:

1. 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.

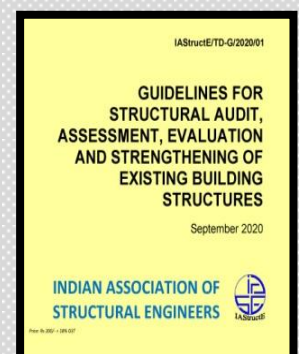


It's a priced document and hence not freely downloadable.

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 this amount. Interested professionals who wish to purchase the commentary may kindly register with the following link or contact IAStructE Secretariat at iastructe@gmail.com

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

2. 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. These guidelines may be used by IAStructE members, all other structural engineers, house owners, housing society welfare



associations, clients and corporation engineers for understanding structural audit of the private and public building structures. The Guideline focuses on the urgent need to strengthen risk resilience of buildings from any kind of risks due to earthquake and other hazards. It is hoped that this document will be useful to ensure that all structures across the country remain safe from any kind of disaster risk.

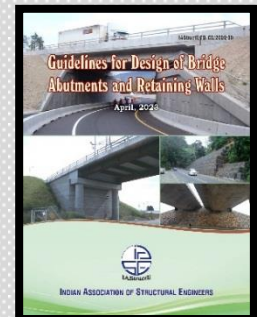
It's a priced document and hence not freely downloadable.

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>

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

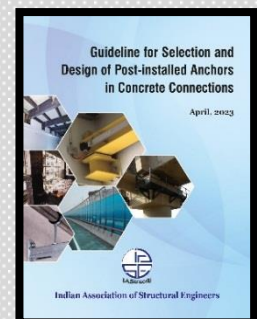
4. Commentary on IS: 1893 Part 1: The commentary is available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.

5. 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

6. Guideline for Selection and Design of Post-installed Anchors in Concrete Connections: In this document, only post-installed anchors are covered including their types, behaviour and working principles, failure modes, and basic design steps for non-seismic and seismic situations. A few illustrative design examples too are presented for better understanding of design methodology. This document is now available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.



Advertisement Tariffs:

Structural Engineering Digest (being published in PDF format)

	Rates Per issue	Discounted rate at 20% for 4 consecutive issues	Advertisement Size
Full Page	Rs. 20,000/- + 18% GST	Rs 64,000/- + 18% GST	9.5-inch x 7 inch

IAStructE Monthly Newsletter (being published in PDF format)

	Rates for advertisement	Advertisement Size
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 program for Accreditation as Accredited Structural Engineers (ASE – IAStructE) is suitable for practicing structural engineers who have experience in the structural design field and have a good understanding of applicable design codes/standards in India.

This accreditation will help Structural Engineers in India to set a benchmark of proven professional & technical excellence and raise the levels of structural engineering practice in the Country. 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. Applicants have to demonstrate their competence in the designated 12 key attributes on which they will be assessed during the interview. The applicant would then require to clear the examination by answering any single chosen question from the options given in the question paper with a minimum level of marks stipulated. 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

Details of the application and assessment requirements, fees, and available dates can be consulted in the relevant fields given in the tabs below. They summarize the general application process, the assessment requirements, and the steps needed to qualify for the ASE-IAStructE accreditation.

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>

This assessment process will be held bi-annually, being initiated in January & July respectively.



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



Indian Association of
Structural Engineers

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