

## MESSAGE FROM THE PRESIDENT



Dear Friends,

Greetings on the upcoming Festive Season!!

It is matter of great satisfaction that Indian Association of Structural Engineers (IAStructE) has organised many technical events through our 'Professional development & Technical Events committee' and through various student chapters. An interesting & useful refresher course on 'Pile Foundations' has been launched which have around 250 registered participants. All participants are appreciating our technical programs. Some of student's chapters particularly DTU, IIT-H & CEPT are taking initiatives in organising activities. More webinars & refresher courses are in planning stage and shall be announced soon.

Our membership is also growing steadily. It is heartening to note that we are getting good applications for membership. Online interaction as part of evaluation started by us is helping us to know the applicants in a better & holistic way. Soon we shall start a new class of recognition "Chartered Structural Engineer-IAStructE" which will be based on interview & written examination apart from academic qualifications & experience requirements. Work on it is in its final stages. Prof Prem Krishna is leading this activity.

Structural Engineering Digest (SED) for the quarter July-September dedicated to 'Dams & Hydraulic Structure' shall be released soon. Next issue will be on 'Structural Fire Safety'. You are encouraged to send your technical papers or case studies related to theme for the consideration of editorial board.

It is a matter of great happiness & pride for us that our GC member & Vice President (South) Dr. R Pradeep Kumar has been appointed as new Director of CBRI Roorkee. I wish him an immense success in his new role.

I once again urge all my fellow engineers to come forward & take part in the activities of the association to strengthen it for the betterment of the profession. Do send your suggestions.

Best regards,



Manoj Kumar Mittal  
President-IAStructE

## FROM THE EDITOR'S DESK



September 2022

Warm greetings to all the readers!!

The latest issue covers the regular knowledge dissemination activities conducted by the association and our student's chapter. We are extremely proud of Prof. Pradeep Kumar (Vice President-South) who has been appointed as Director CBRI and Mr. Vineet Lochan for being the 1st runner up of Greenpreneur Award. We request all our readers and members of the association to actively participate in the events and disseminate the knowledge. Request all our readers to give feedback on the newsletter as well as the SED journal for improvement. Readers are requested to contribute for the upcoming SED journal. Request all our readers to follow, subscribe and like IAStructE events on all digital platforms.

Thanks & Regards,



Dr. Visalakshi Talakokula

## CONTENTS

- Webinars / Events Conducted	- 2
- Student Chapters Activities	- 3-4
- Forthcoming Events	- 4-5
- Call for Papers for the SED journal	- 6
- Advertisement Tarrif	- 6-7
- Members Achievement	- 7
- IAStructE Publications	- 7-8
- Message from Social Media Committee	- 8
- IAStructE Library	- 8
- CROSFALL	- 9
- New IAStructE members	- 10
- About IAStructE	- 11
- Membership Benefits	- 11
- How to become a member?	- 11

## Webinars / Events Conducted:

### ONLINE REFRESHER COURSE (Ongoing)

Online Refresher Course on “Pile Foundation – Application in Buildings & Bridges” was launched on 17 September 2022 and will continue till 22 October 2022. The lectures are being organized on every Saturday, Prof. Mainak Ghosal, Independent Consultant & GC member IAStructE is the Course Coordinator. 250 delegates are participating in the course which is supported by Pile Dynamics Inc., Constell, S. P. Singla Construction Pvt. Ltd. and Geodynamics. Mr. Manoj Mittal, President IAStructE gave welcome address during the inaugural session. The Inaugural session was moderated by Prof. Mahesh Tandon, Past President and the second session was moderated by Mr. V. N. Heggade, GC member, IAStructE. Mr. Alok Bhowmick, Immediate Past President was the Panelist.

During the two sessions the lectures were delivered by the following eminent speakers:

- ★ Prof. Harry Poulos, Emeritus Professor, School of Civil Engineering, University of Sydney
- ★ Mr. V. N. Heggade Former CEO, STUP Consultants Pvt. Ltd.
- ★ Mr. Rajiv Ahuja Independent Consultant (Highway & Bridges)
- ★ Mr. Manish Kumar Executive Vice President & CTO, ITD Cementation India Ltd.
- ★ Dr. N. V. Nayak, Principal Advisor, Gammon Group of Companies
- ★ Mr. Ravi Sundaram, Director, Cengrs Geotechnica Pvt. Ltd.
- ★ Prof. B. K. Maheshwari, Professor, IIT, Roorkee
- ★ Mr. Ravikiran Vaidya, Principal Engineer, Geo Dynamics
- ★ Dr. Brent Robinson, P.E., Vice President, Pile Dynamics, Inc.



*Fig. 1. Glimpses from the Online Refresher Course*

**IAStructE Student Chapter Activities**

**1. DTU Student Chapter**

**Title of the event:** Technical introductory session on MIDAS

**Date & Venue:** 08 September 2022 at Seminar Hall, DTU, Department of Civil Engineering.

**Speaker:** Er. Anubhav Tyagi, M.tech (IIT, Roorkee)



*Fig. 2. Glimpses from the event*

**2. IIIT Hyderabad Student Chapter**

**Title of the event:** Guest Lecture on “Earthquake Hazard Studies in India”

**Date & Venue:** 13 September 2022 at KRB Faculty Room, IIIT, Hyderabad.

**Speaker:** Dr. Davuluri Srinagesh, Professor of Practice, IIT Madras.

**Proceedings of the event:** He educated the audience on the physics of earthquakes, as well as the reasons why they differ from one another and the factors (variations in stress build-up, fault rupturing, site directivity effects, and soil characteristics) that influence them. He demonstrated how soil and structures react to such unusual situations differently. He provided various illustrations from earlier earthquakes in India and other countries to further explain these characteristics of earthquakes and how buildings react to them. Further, the incremental and ongoing research in India towards improving the understanding of earthquakes and their effects was also discussed. Finally, the audience was made aware of the value of formal and technical education in enhancing the built environment's seismic safety.



*Fig. 3. Glimpses from the event*



### 3. CEPT Student Chapter

**Title of the Event:** Lecture on “ModRoof –Modular Roofing System for affordable housing”

**Date & Venue:** 16 September 2022 at FA101A, CEPT University

**Speaker:** Mr. Hasit Ganatra, CEO, Pal Re Materials Pvt. Ltd.

**Proceedings of the event:** Students were introduced to various modular roofing systems and materials for LIG and EWS groups, including biopolymers, recycled materials such as packaging and agricultural waste. The session covered topics including module construction, material selection, manufacturing, and testing, as well as locations where it is applicable and how they've modified the systems to suit the environment or locality. Students inquired about the feasibility of such modules, how they helped control the indoor environment, and how the scope of such materials helped optimize the indoor comfort of the dwelling.



Fig. 4. Glimpses from the offline Expert Session on ModRoof

### Forthcoming Events

Event	Topic	Speaker	Date & Timing
IAStructE CEPT Student Chapter	FT Lecture Series - 04 “The Spirit of Gravity” Online Registration link: <a href="https://cept-ac-in.zoom.us/meeting/register/tzModOCtrjMoHdYWZfKZGI9f5pXBXRZYeNo">https://cept-ac-in.zoom.us/meeting/register/tzModOCtrjMoHdYWZfKZGI9f5pXBXRZYeNo</a>	Mr. B L Manjunath, Owner – Manjunath & Co.	7 October 2022 at 5:00 PM (IST) at CEPT University

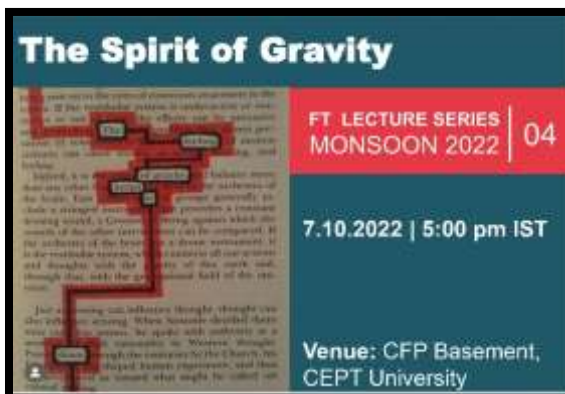


Fig. 5. Flier of the lecture



## IAStructE National Award 2022

Call for Nominations: IAStructE is calling for nominations for the 2022-National Awards Competition. The nominations forms for various categories can be downloaded from the links given below. The last date for receipt of nominations is 31st October 2022.

Registration Link:

<http://iastructe.co.in/iastructe-national-awards-2022.php>

## IAStructE National Awards 2022

**IAStructE invites nominations for the following categories of awards**

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

**1. OUTSTANDING STRUCTURE OF THE YEAR (Two Awards)**

- i) *Buildings: Residential, Commercial & Industrial buildings, Hospitals, Schools etc.,*
- ii) *Other structures: Bridges, Large span space structures for sports, exhibitions etc, Industrial structures, Hydraulic Structures, Monuments, Tall towers*

**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)*

<http://iastructe.co.in/iastructe-national-awards-2022.php>

**Last date for receipt of nominations is 31st October 2022**

### *THE AWARDS*

*All Awards shall consist of a Plaque along with a Certificate & Citation. The Best Master's Thesis Awardee will get in addition 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*

*IAStructE reserves the right to cancel or alter the number of awards stipulated above.*

Indian Association of Structural Engineers

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Tel:(011) 45794829;E-mail: [iastructe@gmail.com](mailto:iastructe@gmail.com); Web: [www.iastructe.co.in](http://www.iastructe.co.in)



## **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 2022 issue: Theme: Structural Fire Safety**

**Guest Editor: Mr. Manoj Mittal, President IAStructE**

**Sub – Themes:**

- ★ Fire & Life safety in planning & design of structures
- ★ Advances in material science for fire resistant materials for construction
- ★ Fire resistance testing
- ★ Standards for fire resistant design & construction – Prescriptive /PBD
- ★ Fire resistance provisions in structural engineering designs
- ★ Fire resistance provisions in Building Byelaws
- ★ Regulatory & implementation issues
- ★ Fire fighting& post fire scenarios
- ★ Fire safety Audits
- ★ Case studies highlighting above issues
- ★ International practices in Structural Fire safety
- ★ Education & training in Structural Fire Safety

Interested professionals may send the abstract along with their photograph and brief resume by 15th October 2022 and the full paper by end of October 2022 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](mailto: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.

## **Advertisement Tariffs**

### **Structural Engineering Digest (being published in PDF format)**

	<b>Rates Per issue</b>	<b>Discounted rate at 20% for 4 consecutive issues</b>	<b>Advertisement Size</b>
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)**

	<b>Rates for advertisement</b>	<b>Advertisement Size</b>
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
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**Members Achievements**



Mr. Vineet Lochan Gupta, Fellow & Former G.C. Member, IAStructE and CEO of Save Techno Engineers received 1st Runner-up ‘Greenpreneur Award’ – Building Construction Category on 3rd September 2022 at CEE, Ahmadabad in recognition of his outstanding contribution to the Green initiative, effectively promoting the concept and encouraging professionals to adopt sustainability to make the world better & greener.

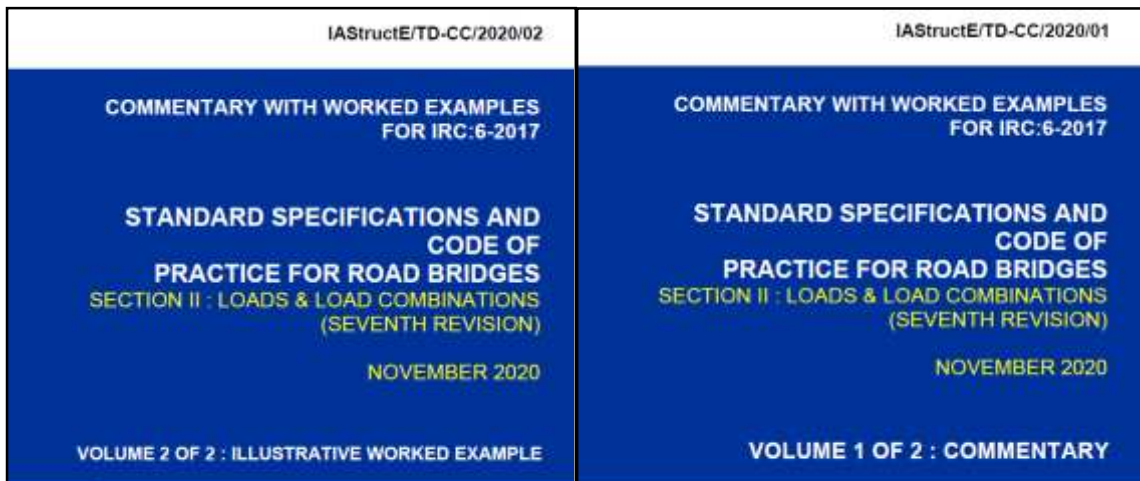


Prof. R. Pradeep Kumar, Vice President (South) IAStructE & Professor, IIIT Hyderabad has been appointed as Director CBRI. He will take charge soon.

We, on behalf of the governing body of IAStructE and on behalf of Members of IAStructE, extend our hearty congratulations to Prof. R. Pradeep Kumar and wishing him for his new assignment as Director CBRI.

**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

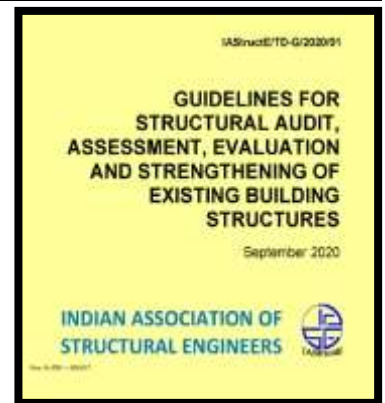


It's a priced document and hence not freely downloadable.

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](mailto: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](http://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](http://www.iastructe.co.in) under IAStructE Professional Documents. IAStructE member can access this document after login.

### ***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](https://www.youtube.com/channel/UCvv7ojXO9Dxq1WtP_yHZTKw)

### ***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. 6: View of the books in Library



## CROSSFALL (Confidential Reporting of Structural Failures and Lessons Learnt)

IAStructE is starting a unique quarterly newsletter "CROSSFALL" (Confidential Reporting of Structural Failures and Lessons Learnt), where the reporter's name and identity as well as the project name, location and identity will not be divulged. IAStructE has developed a multi layered robust mechanism to keep the identity of the reporter & Project confidential.

The objective of this newsletter is to share lessons learnt from "structural failures" or "near misses" or even "concerns" and help to prevent / mitigate future catastrophic failures by providing insight into how safety issues occur and spurring the development of safety improvement measures.

The poster giving more details is attached herewith for your kind perusal. Interested Professionals may visit the following link to get more information regarding procedures and to submit the report about structural safety issues related to any type of structures:[www.iastructe.co.in/crosfall.php](http://www.iastructe.co.in/crosfall.php)



The poster for CROSSFALL features a blue header with the IAStructE logo and the title "CROSSFALL (Confidential Reporting of Structural Failures & Lessons Learnt)". It includes an "INTRODUCTION" section, a "WHAT CAN BE REPORTED?" section with a bulleted list, and contact information at the bottom. The poster is decorated with images of structural failures, including a collapsed building and a damaged crane.

**INTRODUCTION**

CROSSFALL is a unique newsletter created by Indian Association of Structural Engineers (IAStructE). Its purpose is to share lessons learnt from structural failures, near-misses and safety concerns. CROSSFALL has a confidential reporting system, which allow safety issues to be reported by professionals, without exposing their identity and without creating concerns in areas like co-worker relations, client loyalty, or insurance. Any identifiable details, such as a project, product, individual or organisation, will remain completely confidential to CROSSFALL editorial team. Reporter's personal information will be collected to only verify the contents of the report, and to communicate with the reporter if necessary, but this will also remain strictly confidential.

The newsletter will report only safety related issues with the objective to learn lessons from such failures and to help prevent future structural failures, by providing insight into root causes of such failures and spurring the development of safety improvement measures.

CROSSFALL team will depend on professionals to submit reports, whenever they can share their concerns about what they see around or what they experience on any real-life projects. Anyone involved in the civil engineering industry is welcome to submit a report. The more reports submitted, the better CROSSFALL can identify and quantify safety issues across the industry. This will help the entire industry to learn lesson from CROSSFALL publications.

**WHAT CAN BE REPORTED?**

CROSSFALL welcomes 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 precursor 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.

For more details and to submit the report please go through the following link: [www.iastructe.co.in/crosfall.php](http://www.iastructe.co.in/crosfall.php)  
For further query you may contact [iastructe.crosfall@gmail.com](mailto:iastructe.crosfall@gmail.com)



## ***New Members:***

### **“Member” Grade**

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
M-344	Mr. Mangesh Anabhavane	Deputy General Manager at Tech Tangent Solutions Pvt. Ltd.	Thane
M-345	Mr. Amit Ghanshyam Nikam	Design Engineer at Stup consultant Pvt. Ltd.	Navi Mumbai

### **“Associate Member” Grade**

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
AM-395	Mr. Gaurav Ganotra	Senior Engineering Consultant at L&T Infrastructure Engineering Ltd.	Panipat
AM-396	Mr. AkshaySanjayrao Kadam	Junior Structural Engineer at Metey Engineering & Consultancy Pvt. Ltd.	Parbhani(Mumbai)
AM-397	Mr. Sujit Ashok Kadam	Structural Engineer at Metey Engineering & Consultancy Pvt. Ltd.	Solapur
AM-398	Mr. Tushar Maili	Design Engineer at Tech TANGENT Solutions Pvt. Ltd.	Thane
AM-399	Ms. Vidya L.	Design Engineer at SMEC Rail India Pvt. Ltd.	Bangalore



## ***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**

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