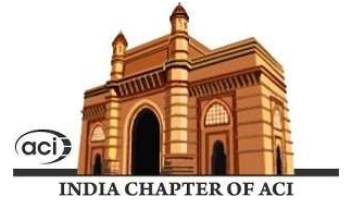


ORGANIZED BY



# IC-ACI STUDENTS' ESSAY COMPETITION-2024

FOR CIVIL ENGINEERING STUDENTS

## TOPIC

## FIRE PROTECTION TO CONCRETE

CALL FOR SUBMISSIONS

**DEADLINE: 31<sup>ST</sup> JANUARY, 2025**

COMPETITION GUIDELINES ENCLOSED

### SUBMISSION PROCEDURE

Draft an email to [infoicaci@gmail.com](mailto:infoicaci@gmail.com) and attach your essay as a .doc, .docx, or .pdf file format. Include the following information in the body of the email:

- Writer's Name:
- Name of Institute/Polytechnic:
- Course:
- Semester and Year essay was written:
- Email Address:
- Phone #1:
- Phone #2:
- Local Address:



### CONTACT US:

INDIA CHAPTER OF AMERICAN CONCRETE INSTITUTE

2-3, Nagree Terraces, Soonawala Agiary Road, Mahim (W), Mumbai 400016, India

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# INVITATION

ESSAY COMPETITION ON

## FIRE PROTECTION TO CONCRETE

Dear Sir/Madam,

India Chapter of American Concrete Institute [IC-ACI] cordially invites civil engineering students to participate in the 2022 Edition of its very-popular annual Essay Competition. The competition which has no entry fee and this year is themed *Fire Protection to Concrete*. The last date for submission of entries is *31<sup>st</sup> January, 2025*.

The competition is open to all student members of the ICACI Student Chapters as well as students of Accredited Civil Engineering Colleges. Any institute not having an ICACI Students Chapter is welcome to initiate modalities for formation of such Student Chapter at their institute.

Winners, who will be individually notified of the results by email, will be awarded attractive trophies and Cash Incentive Prizes of Rs.10,000/- for 1<sup>st</sup> position, Rs.7,000/- for 2<sup>nd</sup> position, Rs.3,000/- for 3<sup>rd</sup> position and given publicity on all India Chapter communication platforms such as the India Chapter Journal, Concrete India, and the Chapter website.

We look forward to your participation.

Thanking you and Yours faithfully,

Er. Satish C. Dhupelia  
**Past President and Principal Co-ordinator**  
**India Chapter of American Concrete Institute**

### ABOUT THE AMERICAN CONCRETE INSTITUTE

Initially formed as 'National Association of Cement Users' in 1904, it was renamed as 'ACI' nine years later. ACI is a leading authority and resource worldwide for the development and distribution of consensus-based standards, technical resources, educational and training programs, certification programs, and proven expertise for individuals and organizations involved in concrete design, construction and materials who share a commitment to pursuing the best use of concrete.

The Institution functions to improve the 'Design, Construction, Manufacture, and use of Concrete Products and Structures with the motto of *Progress through knowledge*.

With 98 actively working Chapters and about 20,000 direct members spread across 112 nations all over the world, ACI has attained the stature of an international organization and is acclaimed as a *Treasure Trove on Concrete*. It offers more than 500 technical documents related to concrete and concrete technology and regular upgradation on the subject. These publications are unique and exclusive. With its Headquarters at Farmington Hills, Michigan, USA, it is encouraging engineering education, scientific investigation, and research by organizing the efforts of its members on a non-profit public service basis, in gathering, correlating and disseminating information.

### ABOUT THE INDIA CHAPTER OF THE AMERICAN CONCRETE

Even before there was ACI, Indian Professionals have exchanged information and disseminated knowledge about concrete technology with the USA from the early days of the 20th century. The India Chapter, established on 26th December, 1979, has today an All India membership of over 2000 individual and organizational members.

Through its continued and tireless services in organizing seminars, workshops, symposia, technical meetings with professional bodies, special lectures by experts on selected topics and site visits, the Chapter has been bestowed the several Chapter Awards from ACI, USA for successive years. It was also awarded the 'Outstanding International Activity' status in 1984 and 'Excellent Chapter Award' in 2000 and up to 2021.

The Chapter has a rich technical library for professionals and research scholars; conducts certification course for *Construction Supervisors* and publishes quality journal and special technical publications to provide up-to-date information on concrete technology. Previously, it has held annual competition for excellence in concrete through tests of concrete cubes, given away Annual Awards to outstanding concrete structures and held interactive meetings with BIS for updating of codes. It is always striving to improve the practice of concrete technology and to take it to new heights in the country.

## ORGANISING COMMITTEE

ER. SATISH C. DHUPELIA  
**COMPETITION MENTOR AND PRINCIPAL CO-ORDINATOR**

ER. V. B. VANVARI  
**CO-CONVENOR - MUMBAI SECTION**  
Student's Chapter at Bhagubhai Mafatlal Polytechnic  
Mumbai, Maharashtra

PROF. ANKUR BHOGAYATA  
**CO-CONVENOR - RAJKOT SECTION**  
Student's Chapter at Faculty of Engineering, MEFGI  
Rajkot, Gujarat

DR. G. S. RAMPRADHEEP  
**CO-CONVENOR - ERODE SECTION**  
IC-ACI Student's Chapter at Kongu Engineering College  
Erode, Tamil Nadu

DR. CHETAN PATIL  
**CO-CONVENOR - KOLHAPUR SECTION**  
Student's Chapter at Sanjay Ghodawat Group of Institutions  
Kolhapur, Maharashtra

## COMPETITION GUIDELINES

### 1. OBJECTIVES

Since beginning of 1940's, most of the High-Rise Structures/Buildings, World Over, used to be constructed in Structural Steel Framework as the Principal Load Transferring and Load Resisting Systems. Since about 1990's, World Over, the Trends are now seen to be adoption of Reinforced Concrete Framework for most of the High-Rise Buildings, Tall Buildings, and even Super-tall Buildings. In the case of Structural Steel Framed Constructions, besides the structural stability & sustainability, Fire Resistance of aspects of structure were well established, for Structural Steel Framework. However, much of Research are ongoing as to various parameters for evolving due and desired endurance for High-Rise Buildings, in Reinforced Concrete Construction, as to their Resistance to effects Fire. As related to the measures for Fire Resistance & Fire endurance to Main Structural Reinforced Framework, Study and Research is an ongoing process. Needless to mention that there are basic fundamentals for Fire Resistance as related to Structural Design, for R.C.C. framed Structures, like, but not limited to the minimum Grade of Concrete, the use and selection of Coarse Aggregate, the cover to Reinforcement Bars, Detailing of Reinforcements Bars etc. etc., which are matters of importance. The Essay Competition aims at inculcating amongst Students of Civil Engineering, to have perception of some fundamentals, necessary and essential parameters as related Fire Safety of R.C.C. Framed Structures. The Essays are expected to concentrate on these and other related aspects, as related to "Fire Protection to Reinforced Concrete Framed Structures".

### 2. THE COMPETITION

The Competition encourages the adoption of innovation. The contestant's knowledge and depth of understanding about the issues being addressed will be demonstrated by the quality of their essays. One goal of the contest is to encourage contestants to develop their own perspective on important issues. This perspective should be reflected in their analysis of a complex issue and presentation of clear, concise arguments to support their point of view.

### 3. ELIGIBILITY

The competition is only for students at any Civil Engineering college / Student's Chapter of ACI in the following categories.

- a. Members of Students Chapter of IC-ACI
- b. Students of Civil Engineering Discipline

### 4. RULES

- Essays must not be more than 2500 words in length, submitted in English, type-written in black ink and double-spaced, line and paragraph spacing 1, Font should be Times New Roman and of size 12. (No images / word art / clip art, etc. Only text)
- Only one entry per student per year, and each entry must be the work of only one student.
- Essay entries cannot have already been published.
- Entries after the due date will not be considered.
- Any essays found to be plagiarized will be automatically disqualified and the student will be prohibited from entering any future ICACI competitions.
- To be eligible, entries must be works of prose, from 800 to 2500 words in length.
- Winners will be individually notified of the results by email.
- The decisions of the judges are entirely their own and are final.