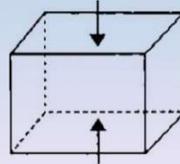
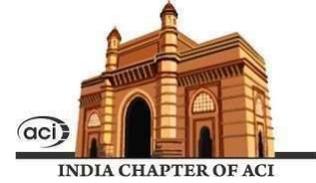


ALL INDIA STUDENTS' "CONCRETE CUBE TEST" COMPETITION – 2025

ORGANIZED BY



12th January, 2026 to 25th February 2026
Deadline – 15th March, 2026

At

RAJKOT (Gujarat)	MUMBAI (Maharashtra)
KOLHAPUR (Hatkanangale-Maharashtra)	PERUNDURAI ERODE (Tamilnadu)
NAGPUR (Maharashtra)	VAIKKALMEDU ERODE, (Tamilnadu)
NERUL (Navi Mumbai)	BHUBHANESHWAR (Odisha)
COIMBATORE (Neelambur)	SHAMSHABAD (Telangana)
TAMILNADU (Kancheepuram)	COIMBATORE
PUNE (Akurdi-Maharashtra)	SANGLI (Maharashtra)
RAIGARH (Chattishgarh)	PALGHAR (Maharashtra)
ANTHIYUR (Nachimuthupuram)	KOLHAPUR (Ichalkaranji-Maharashtra)
PUNE (Haveli-Maharashtra)	KOLHAPUR (Salokhenagar-Maharashtra)
KOLHAPUR (Kasaba-Bawada-Maharashtra)	KOLHAPUR (Yadrav-Maharashtra)
AHMEDABAD (Gujarat)	CHENNAI (Tamilnadu)
ALIGARH (Uttar Pradesh)	NAVI MUMBAI (Rasayani)
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Invitation for
IC-ACI - All India Students'
“CONCRETE CUBE TEST”COMPETITION – 2025

Dear Sir,

In continuation of this competition, initially launched in 2017 and carried through 2018, 2019-2020, 2022, 2023, 2024. We at India Chapter of ACI cordially invite Students of Civil Engineering Colleges/Institutes to participate in the All India Concrete Cube Test Competition 2025, to be held by various Student's Chapters of IC-ACI from 12th January 2026 to 25th February 2026. The last date for submission of the Cubes for the test is from 15th March 2026 to testing at any nodal centers, and will be as per guidelines given by Mentors of relevant Student's Chapters.

The competition is open to all students of the IC-ACI Student Chapters, as well as students of Accredited Civil Engineering Colleges. Any institute not having an IC-ACI Students Chapter is also welcome to participate.

Any Institute not having Students Chapter of IC-ACI, are welcome to initiate modalities for initiation of “Students” Chapter of IC-ACI, 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 1st position, Rs.7,000/- for 2nd position, Rs.3,000/- for 3rd 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, for which there is no entry fee.

Thanking you,

Yours faithfully,

SATISH C. DHUPELIA

Past President of India Chapter of American Concrete Institute
Principal Co-ordinator for IC-ACI Students' Chapters and
Principal Convenor for Activities of IC-ACI Students' Chapters
E:mail: satishcdhupelia@yahoo.com

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COMPETITIONS GUIDELINES

1. Objectives:

Concrete is the most common and versatile construction material. Those who deal with concrete need to have 'Hands on' experience and genuine feel of concrete making, to understand its quality and behaviour. Concrete making with variations in characteristics of cement, proportioning of aggregates, chemistry of material and chemical admixtures, control of water binder ratio, is a challenge to any civil engineer. The India chapter of ACI wants to encourage young Students of Civil Engineering to experience through this competition, the art and science of producing good quality concrete, and hands' on Destructive Testing of very cubes made by them.

2. The Competition:

To produce concrete to achieve, as closely as possible, a compressive strength of 30 Mpa on the day of competition at the time of testing the cubes. Other parameters of mix design maybe chosen by the competitors to obtain the closest specified strength on the day of testing.

3. Eligibility:

- 3.1 The competition is open to all Students of Engineering Colleges, who fall in the category of students of any civil engineering discipline.
- 3.2 A team of competitors shall consist of maximum three participants. More than 1 team from the same institution can also take part in the competition, but each team shall have different set of participants and mix design.
- 3.3 The completed 'Data Sheet' must form part of Mix Design Report duly certified by a senior member of the institution, viz Head of The Department / Faculty Member etc. who shall be personally responsible for compliance of all the guidelines by the participants.

4. Use of Materials:

- 4.1 Coarse and fine aggregates from natural sources shall comply with the requirements of IS:383. The maximum size of coarse aggregates, gravel or crushed stones shall not exceed 20 mm.
- 4.2 Cement shall be any of the following:
 - b) Ordinary Portland Cement IS:269/IS8112/IS 12269.
 - c) Portland Slag Cement (IS : 455).
 - d) Portland Pozzolana Cement (1489 Part I).
 - e) Partial replacement of cement with other Cementitious materials like Fly/Ash etc.
- 4.3 Chemical admixtures which conform to IS:9103 or ASTM C-494 or 1017, as applicable may be added.

5. Mix Design:

The mix shall be designed to achieve strength of 30 Mpa on 28 days, water cured cube sample, while testing. And not more than 33 Mpa

6. Cube Specimen:

Cubical test specimens shall be of 150 x 150 x 150 mm in size within a tolerance limit of 2 mm, cast as monolithic one unit. Any reinforcing by provision of bars, fibers or mesh, impregnation with materials like any polymer, epoxy or any synthetic glues or similar binders or modifiers is not permissible.

7. Curing and age of cubes:

- 7.1 Minimum 28 days curing shall be done in clean fresh water at ambient temperature in accordance with Codes.
- 7.2 Age of cubes on the day of testing shall be preferably 28 days but not more than 36 days of casting.

8. Submission of entry:

- 8.1 A mix Design Report with all test results of trial mixes and finally adopted mix design, highlighting parameters used to obtain design strength with completed 'Data Sheet' and 'Cement Test Certificate' shall be submitted with each entry.
- 8.2 Each Entry will be by a group of Three Students.
- 8.3 Minimum 3 cubes shall be submitted with each entry.
- 8.4 Marks 'X' from corner of the upward face of the cubes to receive the test load.
- 8.5 Name of participants / organization or their addresses should be indicated or marked on the cubes.
- 8.6 Covering container /package of the cubes shall be marked with sender's name and address.
- 8.7 The cubes shall be sent by participants (which are not nodal centers) to the addresses of Conveners at respective location nearby, to those given in introduction so as to reach three days prior to the date of Testing. Delivery of the cubes to the said address is the responsibility of the competitors.

All expenses towards cost of materials, casting of cubes, packing and delivering thereof to the said address shall be borne by the competitors.

Cubes damaged in transit shall be rejected.

Competitors shall have the responsibility of delivering the cubes in good condition.

9. Test of Cubes:

- 9.1 Testing of cubes will be start at 10:00 hrs. on the date and at the address of nodal centers of "Conveners" or as notified by them.

Competitors are welcome to attend, if they so desire, during testing of their Cubes @ designated Testing Centers.

- 9.2 Testing will be done as per IS:516. The average strength of 3 cubes in direct compression shall be considered for merit/adjudged from following:
 - a) Ratio of strength to cement content.
 - b) Uniformity of results.
 - c) Deviation from target strength.
 - d) Special marks for use of fly Ash.

10. Adjudgement:

- a) The Chapter Board of Direction has decided that individual Conveners at various centers will be judges.
- b) The decision of the Judges regarding Acceptability of Cubes for the entry and evaluation of merit shall be final.
- c) The decision of the Board of Direction of India Chapter of ACI shall be final and binding.
- d) All successful candidates shall be informed of the result by post/e-mail. Exact date and venue of distribution of prizes/certificates will be informed well in advance.
- e) The marks obtained by each Entry, will be based on indicative marking sheet as under:

BASIS FOR EVALUATION OF ENTRIES

SR. NO.	CRITERIA	MAX MARKS
1.	MIX DESIGN REPORT	20
2.	CONSISTANCY OF DENSITY	10
3.	MAX. VARIATION (WITHIN +2 MPA)	10
4.	ACCURACY OF CUBICAL DIMENSIONS	15
5.	PARTIAL REPLACEMENT WITH FLY ASH	
A	IF 15% REPLACEMENT	10
B	IF 25% REPLACEMENT	15
6.	CEMENT CONTENT TO STRENGTH RATIO	20
7.	USE OF ADMIXTURE	10
	MAXIMUM MARKS POSSIBLE	100

ABOUT US

The American Concrete Institutes (ACI)

Initially formed as 'National Association of Cement Users' in 1904 and renamed as ACI nine years later, the Institution functions to improve the "Design, Construction, Manufacture". Use of Maintenance of Concrete Products and Structures with the motto 'Progress through acknowledge'. With above 30,000 direct members and actively working 94 chapters, 244 student chapters all over the world, spanning over 120 countries it has attained stature as an international organization and is acclaimed as "Treasure House on Concrete" with 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 Hill, Michigan, USA, it is further encouraging "Engineering Education, scientific investigation and research by organizing the efforts of its members on non-profit public service basis, in gathering, correlating and disseminating information.

India Chapter of ACI

Indian Professionals exchange information and dissemination of knowledge about concrete technology with USA from the early days of 20th century even before there was ACI. Our Chapter, established on 26th December, 1979, has today an All India membership of more than 3000 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 attained a rare distinction from ACI, USA, as Outstanding chapter for successive years. It was also acknowledged with 'Outstanding International Activity' in 1984 and "Excellent Chapter Award" in 2000 through 2024.

The Chapter has a rich technical library for professionals and research scholars, conducts certification course for 'Construction Supervisors', publishes quality journal and special technical publications to provide information on developments in the field of concrete technology, held annual competition for excellence in concrete through tests of concrete cubes, gave away tri-annual award of outstanding concrete structures and holds interactive meetings with BIS for updating of codes. It is striving today to improve the practice of concrete technology to new heights in the country.