



# **AISSMS**

## **COLLEGE OF ENGINEERING**

ज्ञानम् सकलजनहिताय

An Autonomous Institute Affiliated to Savitribai Phule Pune University  
Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra  
Accredited by NAAC with "A+" Grade | NBA - 7 UG Programmes



## **DEPARTMENT OF CIVIL ENGINEERING CIVISPARK**

**21<sup>TH</sup> ENGINEERING TODAY 2026-2027**

**29<sup>TH</sup> and 30<sup>th</sup> September 2026**

***EVENT, CODE, TERMS AND CONDITIONS***

### **EVENTS:**

- **MODEL MAKING (CV1)**
- **TECHNICAL SPARKSOVER (CV2)**

#### **General Secretary**

Abhishek Dahitule (7038374777)

#### **Joint General Secretary**

Rutvik Walunjkar (7397822806)

#### **Faculty Co-ordinator**

Dr. Priti Satarkar

#### **HOD Civil Engineering**

Dr. P. B. Nangare

#### **Principal**

Dr. D. S. Bormane



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## ENGINEERING TODAY 2026

### RULES FOR MODEL MAKING – BRIDGE MAKING (CV1)

**Entry Fee: - Rs: 100/- (per participant)**

#### Overview

The Engineering Today of AISSMS College of Engineering Pune is excited to release its next edition of Model Making competition. Participants have to design and build their own bridge using Popsicle sticks.

**Date & Time:** 29<sup>th</sup> September 2026, 10:00 am

**Venue:** Drawing Hall – Room number 132

#### Eligibility

The competition is open for all Degree and Diploma students. Students have to submit entries as a team. Team sizes will be Two to four (2 to 4) students per team.

#### GENERAL RULES

##### **Objective: -**

The objective of this competition is to build a bridge made from Popsicle sticks that is the most efficient design possible and meets the given specifications.

##### **Material: -**

120 Popsicle sticks and fevicol are the only materials provided by organizers. Participants are informed to carry scissors, scale and paper clips (only these three items are allowed and organizers will not provide the items other than popsicle sticks and fevicol).

#### Design & Construction

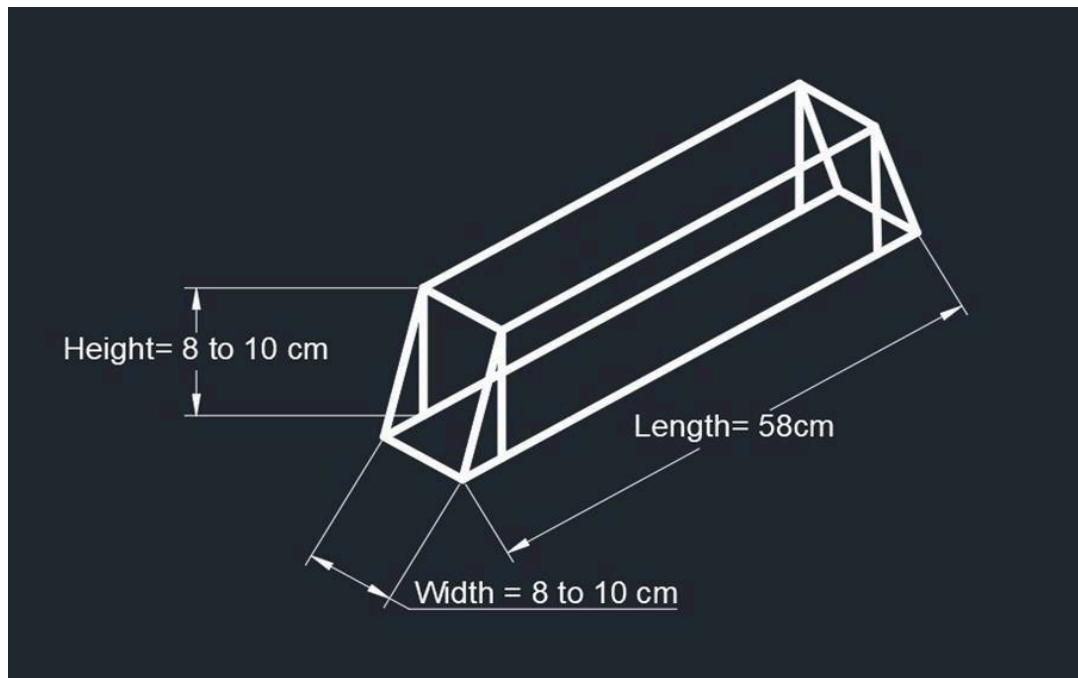
##### Construction:

1. The bridge should be made by the participants on the venue of event within the given time.
2. No readymade part of the bridge is allowed to use in the event.
3. Use of any guidance book, readymade bridge plan, smartphone or any other electronic gadget for guidance is strictly prohibited

### **Design Specifications**

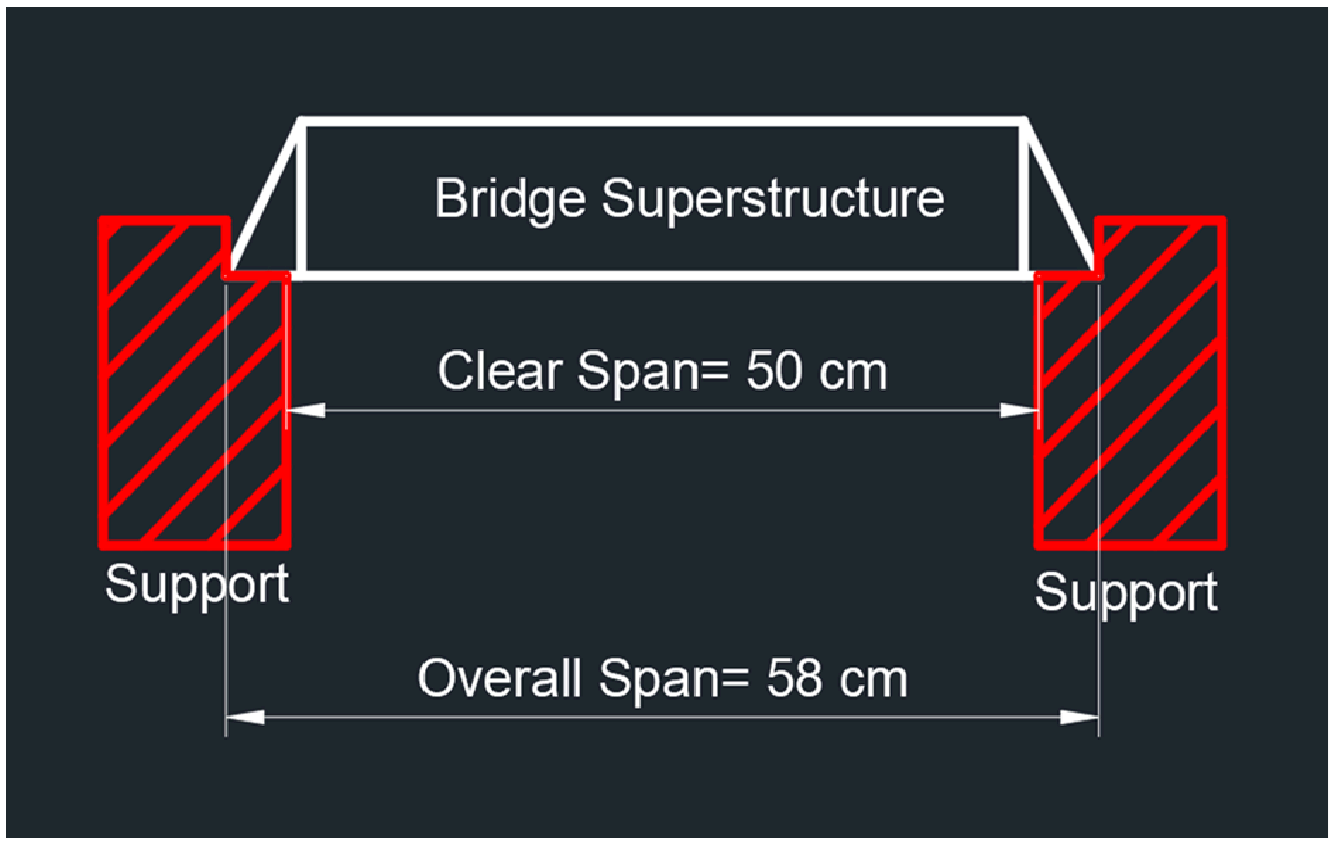
The following design specifications must be followed. If any of the following rule is not satisfied, the bridge will be disqualified by the organizers.

1. A team shall consist of two to four (2 to 4) students.
2. Teams are responsible for constructing the superstructure for their bridge.
3. The foundation for the bridge shall be provided at the testing site.
4. The bridge must weigh 250 gram's or less.
5. The maximum allowable superstructure height is 10 cm.



6. The minimum allowable superstructure height is 8 cm.
7. The minimum width of the roadway shall not be less than 8 cm.
8. The maximum width of the roadway shall not exceed 10 cm.
9. The clear span between the provided supports will be 50 cm.
10. The bridge's overall length shall be in the range of 56-58 cm.
11. The clear height of 6cm along the entire bridge length is required for the safe passage of the vehicle.
12. The highest strength-to-weight ratio is the desired outcome for the bridge.
13. (Maximum load applied ÷ Weight of Bridge)
14. Total time allotted for the construction of bridge would be only 3 Hours.

15. If a load is applied and the bridge fails in time less than 7-10 sec that load would not be considered, previous load applied before it would be taken as ultimate load sustained by the bridge.
16. The load will be applied at the centre of bridge, on its base.



### **JUDGING CRITERIA**

#### **Testing:**

1. Prior to Testing: - Judges will check
2. Number of sticks used.
3. Whether only given sticks and glue have been used
4. Each bridge has team banner representing the Group No.
5. Bridge will be visually inspected for proper member joints.
6. Bridge has loading gap to provide rod as per specification.
7. Height of bridge will be measured at three positions, viz. Centre and two ends of bridge.

**\*Note:** Bridges not meeting these requirements may be disqualified.

### **Key Points for Judging**

1. While testing the load will be applied at the centre of bridge.
2. Highest strength-to-weight ratio i.e. Efficiency of your Bridge.
3. Time taken for construction.
4. The bridge will be scored on how efficiently you have used your materials to support the load. We will call this efficiency and it will be defined as the ratio of ultimate load capacity to bridge self-weight. The bridge will be judged based on its detail to connections and members, the uniqueness of your design, and its overall look and if required time taken for the construction would be taken into consideration.
5. All bridges will be visually inspected, measured, and weighed (in the presence of the team) for compliance with all of the rules.
6. Once the bridge has passed the visual inspection, measurement, and weight requirements the judges will secure the bridge until the time of testing.
7. The event will be held on 29<sup>th</sup> September, 2025 (Duration - 3hours) Testing will be conducted next day i.e. 30<sup>th</sup> September, 2025.
8. Time of event 1 pm to 4 pm.
9. Participants should present at the time of testing. In case they are facing any genuine reason video of testing will be provided.

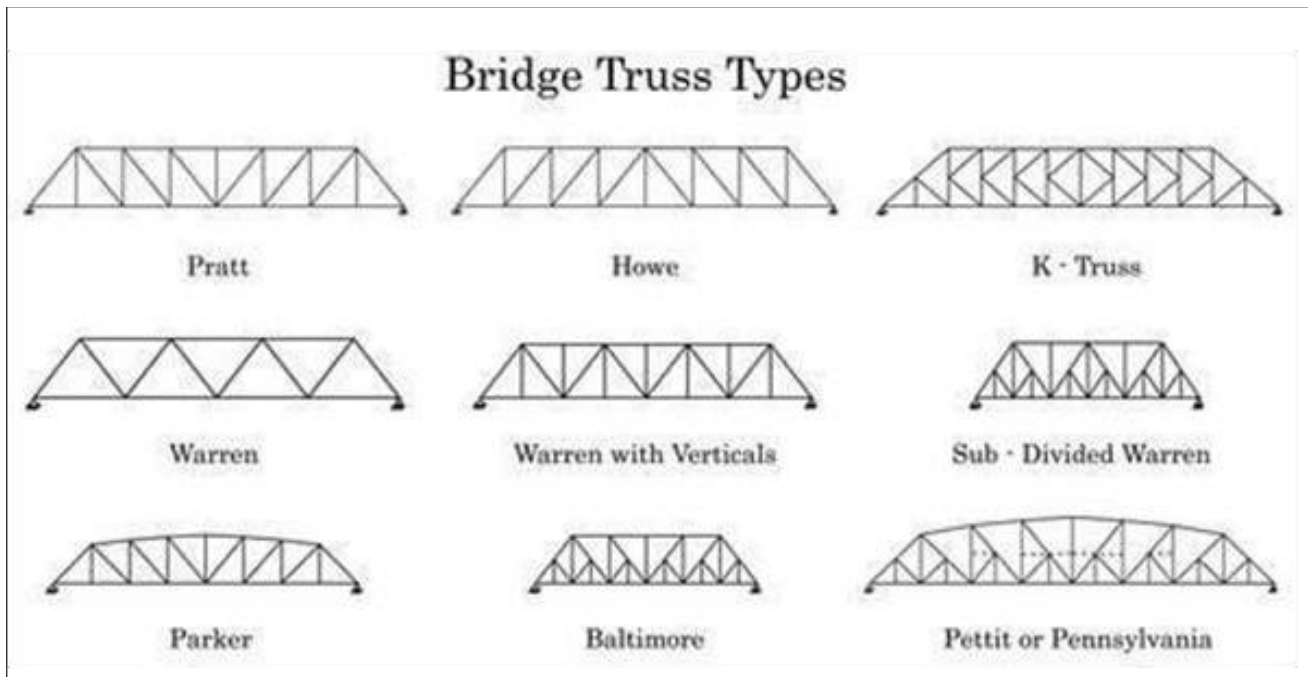
### **Important Note**

- The decision made by the judges will be final and will bound to all participants.
- The Model Making co-ordinator team has authority to make changes in the competitions without prior notice.

### **Prizes**

- First Prize: Rs:-5000/-
- Second Prize: Rs:-3000/-

Students can refer following types of truss bridge



**Event Co-ordinators**

Bhange (9552739353)

Om Patil (7276403591)

**Faculty Co-ordinators**

Dr. Supriya K Nalawade

Mr. C. R. Yeole

**General Secretary Om**

Abhishek Dahitule (7038374777)

**Joint General Secretary**

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## TECHNICAL SPARKSOVER (CV2)

**Entry Fee: -Rs: 100/- (per participant)**

### Event Overview

**Objective:** This game tests speed, balance, presence of mind and teamwork with their technical knowledge under time pressure.

**Date & Time:** 29<sup>th</sup> September 2026, 11:30 am

**Venue:** Class Room 446

### Eligibility

Open to students of all years & branches.

Can be played in teams of 2 participants.

No prior experience required — just quick thinking and steady hands.

### Theme

Engineering Precision & Stability.

Encourages participants to apply basic engineering principles like balance, load distribution, and stability while racing against time.

### Completion Guidelines

- Teams must register before the event with their team name and members' details.
- Only materials provided at the venue (40 Bricks Provided) may be used.
- No adhesives, tapes, or external supports allowed.
- The final tower will be measured at the end of the time limit.
- If the tower falls before time limit & judges' finish measuring, the attempt is disqualified.

### Judging Criteria

- Height of tower.
- Stealing of brick is compulsory.
- Stability ( Remains Standing for 5 to 10 seconds)
- Neatness ( Straightness)
- Time Management (Finishing Within time limit)

### Prizes

- First Prize: 5000/-
- Second Prize: 3000/-

## **Rules & Regulations**

- Two Members in a group.
- All team receive a two minutes' puzzle (on the basis of general knowledge), before starting game.
- Every 30 Second one member should steal brick compulsory, one brick from another team. Before Stealing they must complete a fun task. (Example: A song, Dance etc.).
- If a team want extra brick, then they have to solve a small Quiz (One-word question or fill in the blanks).
- Tower must stand without external; support.
- When time ends, everyone must step back & tower height will be measured.
- Scoring system based on Judging criteria.
- The Decision of the judges is final & binding.

### **Event Co-ordinators**

Sujal Gaikar (9168427039)

Samiksha Patil (7796831010)

### **General Secretary**

Abhishek Dahitule (7038374777)

### **Joint General Secretary**

Rutvik Walunjkar (7397822806)

### **Faculty Co-ordinators**

Dr. U J Jadhav

Mr. Chetan Misal

### **HOD Civil Engineering**

Dr P. B. Nangare

