

The Annual tech fest of the institute ingenious will celebrate with enthusiasm & zeal

ARRTECH_UTSAV_2021

TYPE OF EVENT

SR.NO	DEPARTMENT EVENT	EVENT NAME
1	CIVIL EVENT- I	CONCRETE DOWNSWING
2	CIVIL EVENT- I	CIVIL WAR
3	MECHANICAL EVENT- I	ROBO FOOTBALL
4	MECHANICAL EVENT- I	JUNK YARD
5	ELECTRICALL EVENT- I	TECHNO BOAT
6	ELECTRICALL EVENT- I	FUN WITH TECH-O-KING
7	COMPUTER EVENT- I	TECK SOUND
8	COMPUTER EVENT- I	CODE QUIZE
9	GENERAL EVENT	Death race
10	GENERAL EVENT	PANEL DISCUSSION
11	GENERAL EVENT	Mind spark
12	GENERAL EVENT	ONE MINUTE SHOW
13	GENERAL EVENT	CULTURAL EVENT
14	GENERAL EVENT	DOCUMENTRY
15	GENERAL EVENT	PHOTO-GRID

EVENT CO-ORDINATOR

MR. CHIRAG PATEL

MR. SHAHBAZ MIRZA

MR. VIPUL VANKAR

ARRTECH_UTSAV

2021

Department	: Civil
Name of Event	: Civil WaR
No of Participants	: Maximum 4 and minimum 2 participants per team

Event Description

- In this event, **through (upper) tower crane** is to be constructed using Pop sticks (ice cream sticks) satisfying the stated constraints. The event consists of two rounds.
- First round would be based on the dimension analysis (if your structure is not as per description then it will not be eligible for next round). Round 2 being the elimination round. Best model with load carrying capacity will be finalized.
- The participants will come with their candy stick crane structure made according to given specifications and checking of the same will be done.

Arena -

General Rules

- In the first round any one member of team would be allowed to play a game on PC and at that time remaining members will not be allowed in the room.
- Shape-Structure would satisfy all the constraints and the length of the tower crane should be 35 cm to 40 cm.(+ OR – (1cm)), and height must be 50 cm to 55 cm, and also weight will be consider according to the judging criteria.
- The layer of the sticks for crane will be 2.
- Once the structure is approved by authorized coordinators you are not allowed to modify the structure in any way.
- Any team that is not ready at the time specified, they will be disqualified immediately.
- Judges decision shall be final and binding above all.

Specification – Tower Crane Specification

Model should look like a tower crane.

- Use of only candy sticks and fevicol MR & SH WHITE (used in general purpose) allowed.
- Overall height in the range of 50 cm to 55 cm.
- Horizontal length should be in the range of 35 cm to 40 cm.
- For the dimension of Beam & column, each side must be in the range of minimum 10 cm to maximum 10 cm only.(+ OR – (1cm) will be consider according to the judging criteria.
- Some part of your column will be fixed in our assembly, therefore column dimensions should be accurate according to above.

- There should be a place in your model to hang our hook at loading point as shown in the fig. below.
- Only two sticks can be used for layering.
- There is no criteria for joints.
- Note: (all the dimensions are in centimeter and all dimensions are out to out in measurement.)

For Pop Stick:

- Max. length = 120mm
- Width = 12mm
- Thickness = 2mm
- Fevicol MR or SH white adhesive should only be used to build a structure.

Team Specification

- Team should be consisting of maximum 4 players and minimum 2 players.
- Students from different institutes can form a team for the event.
- Student should carry the valid college identity cards of their respective institute at the time of reporting.
- Switching of team members during the on-going event will not be allowed.
- Use of any kind of help from Google is strictly prohibited.
- Once coordinator verify the model teams are not allowed to do any change in model.

Level Description

ROUND 1 (Dimension checking):

In this, the Participants First round would be based on the dimension analysis (if your structure is not as per description then it will not be eligible for next round) all the participants will be allowed in the next round, but the points count in this round will be considered in final score.

ROUND 2 (Load point):

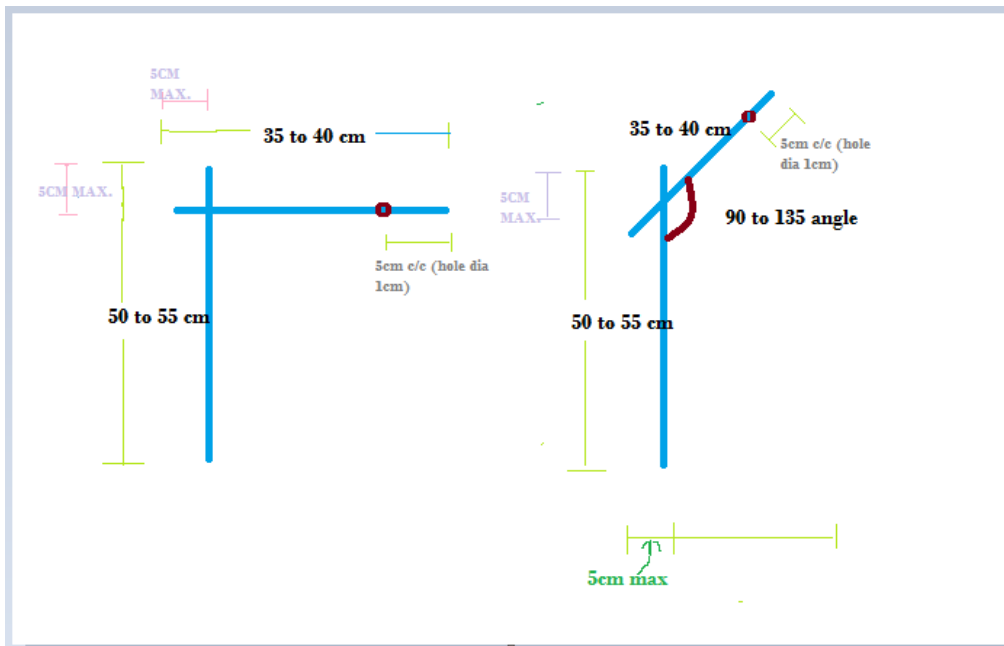
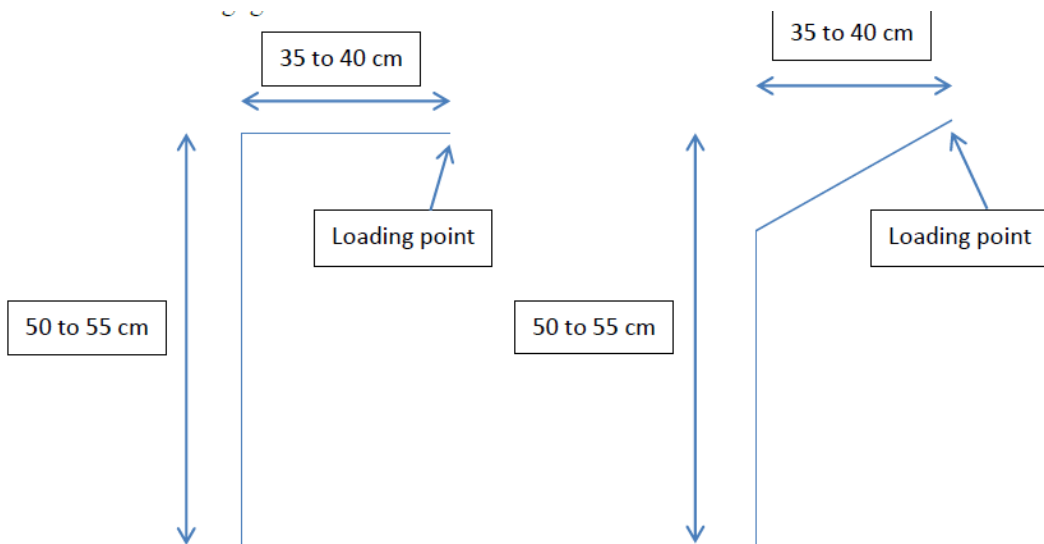
In this round the tower crane will be place in your model to hang our hook at loading point as shown in the fig. below. The strength of the tower crane will be checked in different load.

Evaluation Criteria

- Deflection will be checked by applying moving load.
- Moving load will be applied on the entire span of the bridge.
- The seismic strength of bridge will be measure by considering the load and the frequency of vibration.
- Result will be declared on the basis of Efficiency.

Judges:

- Faculty from the Host Institute.
- Rules for elimination: wrong dimensions, failure of structure on application of load.



CRANE TOWER 2D FIG.

EVENT VOLUNTEER

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 JOSHI DEV- 7600462849

GUIDED BY

PROF. NIKUNJ M PATEL
 PROF. ISHVAR VANJARA

Department : Civil

Name of Event : Material Downswing

No of Participants : Maximum 4 and minimum 3 participants per team

Event Description

- In this event, is to be totally based on construction material. The event consists of two rounds.
- This is one of the most elementary events in the technical field of civil. Participant from 1st year to final year can be a part of this fun-filled technical event.
- First round would be based on the quiz and sieve gaming (if your team pass for this two event round then it will be eligible for next round). Round 2 being the elimination round. Best performer/team will be finalized.

General Rules

- In the first round any one member of team would be allowed to play a game on PC and at that time remaining members will not be allowed in the room.
- Shape-Structure would satisfy all the constraints and the length of the tower crane should be 35 cm to 40 cm.(+ OR – (1cm)), and height must be 50 cm to 55 cm, and also weight will be consider according to the judging criteria.
- The layer of the sticks for crane will be 2.
- Any team that is not ready at the time specified, they will be disqualified immediately.
- Judges decision shall be final and binding above all.

Specification –

- In 1st round of PART-I question will ask from all basic concepts of building material and concrete technology.

Team Specification

- Team should be consisting of maximum 4 players and minimum 3 players.
- Students from different institutes can form a team for the event.
- Student should carry the valid college identity cards of their respective institute at the time of reporting.
- Switching of team members during the on-going event will not be allowed.
- Use of any kind of help from Google is strictly prohibited.
- Once coordinator verify the test result then you are not allowed to perform event.

Level Description

ROUND 1 (FREZEEL)

In this, First round there are two different part event (PART-I, PART-II).

PART-I (QUIZ)

In this part-I only one member of team participate.

First PART-I would be based on the quiz which would be totally technical. There will be an elimination based on the quiz results and the teams will be selected for the next round by results of quiz.

PART-II (Bolt Sieve)

In this PART-II remaining member of team participate on same time of PART-I. In this part participant perform with FI, EI & different sieve.

Only top 8 teams will be allowed in the round 2, but the points count from PART-I and PART-II will be considered for final round 2.

ROUND 2 (Concrete Downswing):

In second round only 8 team will be participant. The event based on slump of concrete. This event in the second round they will be playing with time limit.

Evaluation Criteria

- In the second round participant perform on concrete grade. Concrete grade like (M10, M20, M25). Prepare material calculation (as per concrete grade)
- All the concrete materials given by event coordinator. Students are not allowed to use any of the material other than given by event coordinator.
- Result will be declared on the basis of Efficiency.

Judges:

- Faculty from the Host Institute.

EVENT VOLUNTEER

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HIRAGAR HITESH- 8530992984

GUIDED BY

PROF. RAKESH G DARJI
PROF. KIRAN PRAJAPATI