

### **Bridge building Event**

Working as engineering teams, students design and create model beam bridges using plastic drinking straws and tape as their construction materials. Their goal is to build the strongest bridge with a truss pattern of their own design, while meeting the design criteria and constraints.

Coordinators

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Date:- 10th November 2023

Time :- 11:30 am

Type :- Intra college

### **Rules:**

1. A team should consist of maximum 5 members.
2. Tape or stapler should be used only on the joints and junctions of the straws and not on its entire length.
3. Taping the entire Roadway is not allowed.
4. Loading conditions:

The load will be applied vertically at the center of the bridge.

The load will be applied directly to the roadway.

5. Support:

Support will be provided for the bridge to sit on Supports will be placed 30 cm apart.

6. Weight:

If there is a tie, bridge having minimum weight will be considered as the winner.

Materials:

50 straws of 25 cm length.

Cello tape and Glue (only fevicol to be used)

Stapler if required

Dimensions:

Width=8 to 10 cm

Total length=40 cm

max

Total height= 15 cm

max above the support.

Roadway: 3cm max thickness.

**Judging Criteria:**

**Round 1**

Dimension round (Qualification Round)

Bridges which does not meet the given dimension or failing to abide by the above rules will be disqualified

**Round 2**

**Load and look test**

Judges will give marks out of 100 for the overall aesthetics of the bridge. these marks will be added to maximum load bridge takes before

**collapsing.**

The bridge with higher total points will be declared as winner

Eg- Marks for looks - 70

Total load taken - 1100gm

Total points -  $1100+70=1170$

**NOTE-** Judges decision will be final and no objections will be entertained after declaration of results.

Prize Worth- Rs 3000/-

Prize Money:

1st Prize- Rs. 2000/-

2nd Prize- Rs. 1000/-

Event Associate:- UBS Graphics



Registration link:- <https://forms.gle/tYYT1DVhC17gm6oN9>