

Bharati Vidyapeeth's College of Engineering, Kolhapur.
Department of Civil Engineering Organizes

Nirmaan
MODEL MAKING

Rules:

1. PROBLEM STATEMENT:

- Prepare a tower model using Popsicle sticks (Ice-cream sticks) satisfying the stated constraints.

2. MATERIAL CONSTRAINTS:

- Only Popsicle sticks allowed to use.
- Only Fevicol (synthetic resin adhesive) as adhesive allowed to use, to join Popsicle sticks together.
- Popsicle sticks can be cut or trimmed to any shape or size.
- Use thick cardboard paper at base and top of tower.
- Structure built up using any other materials, except those mentioned in the rules will be disqualified.

3. CONSTRUCTION DETAILS:

- The tower should be square in plan and throughout its height.
- Plan dimensions **100mmx100mm** and Height **300mm**.
- Weight of model should not be more than **100gms** including cardboard paper at base and top of tower.
- You can use single bracing or double cross bracing for the face of column.
- Popsicle sticks, fevicol are used as construction material.
- Dimension allowance:
For plan dimension (+/-) 5mm. For height (+/-) 5 mm.

4. JUDGING CRITERION:

- The team with higher strength ratio will be declared as a winner.
- Strength ratio = Ultimate load sustained/Self Weight of model.

5. TEAM SPECIFICATIONS:

- Each team shall have maximum of **2 Members** in each team.

5. ENTRY FEES:

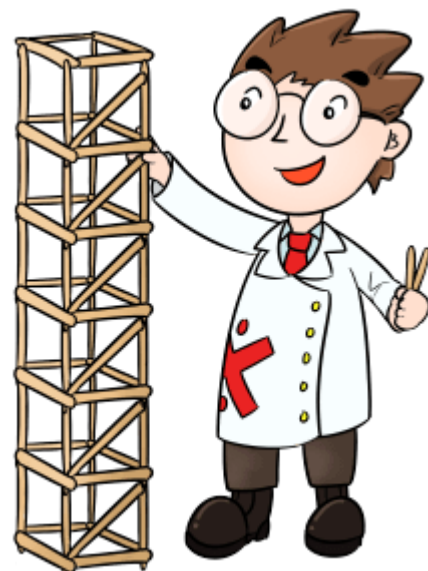
- Rs. 100/- per head

Student Coordinator

- Mr. Uttam Sutar (7385201819)
- Mr. Milind Kondekar (7066191652)

Faculty Coordinator

Prof. Mayur M. More



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CAD Master

Rules:

1) Task to be completed:

Round 1) Aptitude Test: (Elimination Round)

- Aptitude test based on basic CAD knowledge.
- Number of questions = 30
- Maximum marks = 30
- Time allotted = 30 minutes.
- Nature of test = Multiple choice questions, (Offline)
- Venue = Material testing Lab. (Civil Dept.)

Round 2) Drawing Test: (Elimination Round)

- Problem statement: Draw Ground floor, 1st floor, Elevation and schedule for G+1 Residential building by using **AutoCAD 2016**.
- Note: Criteria for drawing will be displayed after 1st round.

For example: Plot area, FSI etc.

- Time allotted = 60 minutes.
- Venue = CAD Lab. (Civil Dept.)
- Elimination Round

Round 3) Surprise test:

- Venue = CAD Lab. (Civil Dept.)

2) Team specifications:

- Each team shall have maximum of 2 members.

3) Judging Criterion:

- Winner will be decided on the basis of performance in each round.

4) Entry Fees: Rs. 200/-per team.

Student Coordinator

Mr. Suraj Mane (8177839394)
Mr. Subham Bamane (9960239108)
Mr. Rushikesh Shinde (8390157090)

Faculty Coordinator

Prof. Akshay. M. Jadhav

Surveying Mania



Rules:

1) Task to be completed: e.g. Pacing, Differential Leveling, Timed tripod centering and leveling, finding area by plane table surveying intersection method

a) Pacing:

Each member of the respective team can pace the perimeter of the given shape (e.g. square, rectangle, triangle etc.) on the ground up to 3 times. A distance will be recorded with the official at each station where the student started after they have completed their pacing.

b) Differential Leveling:

At the site, each team will be required to start from a Bench mark of known elevation and perform differential leveling operations to establish the elevation or depression of other points. The time required to complete the work and the calculated elevations or depressions w.r.t. B.M. will be recorded with the official data.

c) Timed tripod centering and leveling:

A station point will be given over which each team is supposed to center and level the theodolite within stipulated time.

d) Finding area by plane table surveying by intersection method

Each team will be required to find area by plane table surveying by intersection method between the given 3 or 4 points. The time required to complete the work and the accuracy of the area will be recorded with the official data.

2) Team specifications:

Each team shall have maximum of 2 members

3) Entry Fees:

Rs.100 /-per student

Student Coordinator

Mr.Aniket Patil (8605247688)

Mr.Aakash More (8007283543)

Faculty Coordinator

Prof.Nitish A. Mohite