STRUTTURA

- A Civil Design Competition

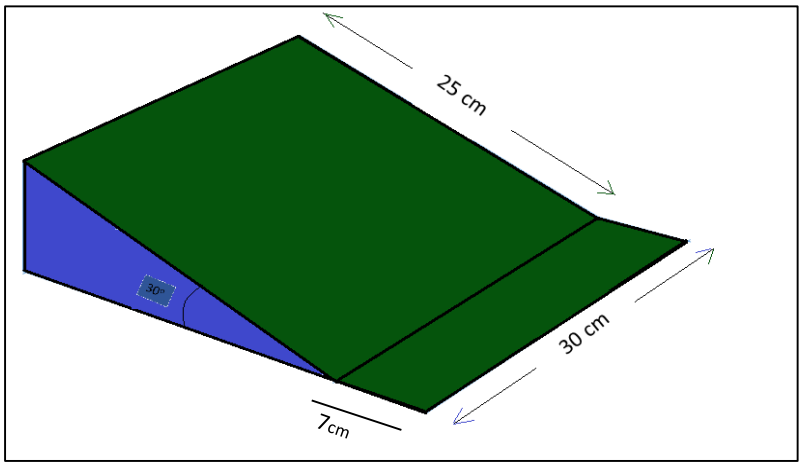
Fluxus brings you a chance to design a tall and stable structure using drawing sheet and some adhesives. Use your own techniques and challenge the world to prove your mettle as a successful engineer.

Problem Statement

1) Participants need to construct a structure on a given inclined surface with the material provided to them.
2) The structure can be of any shape.
3) The structure should not be stuck to the surface.
4) The structure should be able to stand on the inclined surface without any support.
5) The points will be awarded based on height and stability of the structure.

Material Provided

1) A chart paper (A1 size)
2) Tape
3) Scissors
4) Fevicol
5) 30^0 Wedge (will be provided to every team)



*Participants cannot use any material other than that provided to them by the organisers. (Miscellaneous basic stationery like pencils, erasers, etc. should be carried by the participants.)

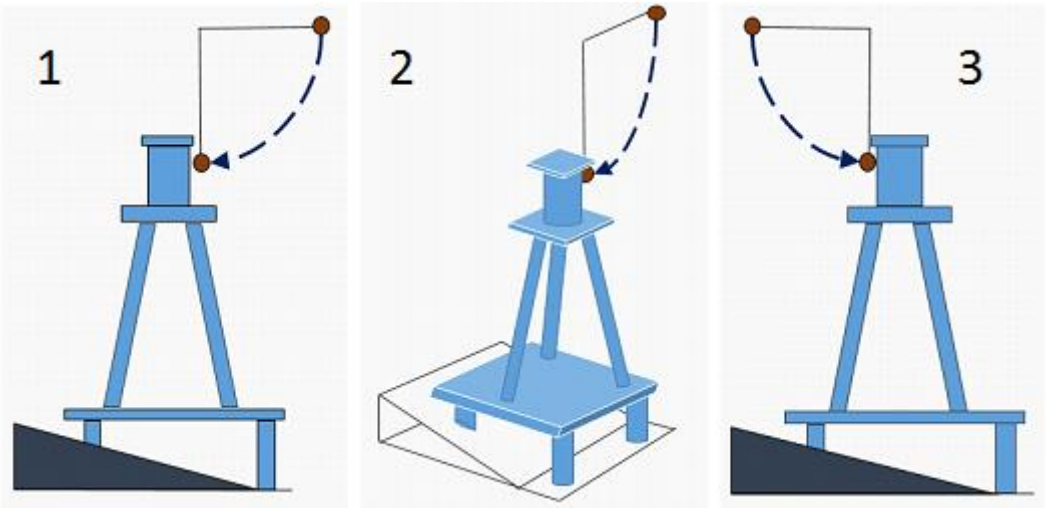
Structure Constraints

1) Structure should have a horizontal platform (≥5x5 sq.cm) on its "peak".
2) A block of 5x5 cm (base surface) weighing around 20-30 g will be placed on that platform and structure should be able to sustain it.
3) The structure's base should be confined within the green region as shown in the figure.

These constraints must be fulfilled, otherwise the team will be disqualified.

Stability Testing

The stability of structure will be tested by giving a push on the upper part of the structure by a pendulum of certain weight from three directions as shown in the figure.



NOTE: The structure (without the block) will be hit by a pendulum. (The block is just to ensure that the structure can sustain the weight of it.)

Judging Criteria

1) For height the points will be given by PH = 0.75 x Height (in cm)
2) For stability test structure will be hit by a pendulum from three different directions. Points awarded for the 1st, 2nd and 3rd will be 20, 30 and 40 respectively. The total points for stability = Ps
3) The final score will be given by $P = P_H + P_S$

*The team with the highest score will be declared as winner. In case of a tie, the structure with greater height will be the winner.

Eligibility

All students with a valid identity card from their respective educational institutions are eligible to participate.

Team Specifications

A team can consist of maximum 3 members. Students from different educational institutes can form one team.

Duration of Competition:

The teams will have to complete their structure within 3 hours.

General Rules

1) The organizers' decision shall be treated as final and binding on all. The organizers reserve the right to change any or all of the above rules as they deem fit.
2) Change in rules, if any, will be highlighted on the website and notified to the registered participants.

3) Organizers reserve the right to disqualify any team indulging in misbehavior or violating any rules. In case of any disputes/discrepancies, the organizer's decision will be final and binding.
4) Note that at any point of time, the latest information will be that which is on the website. The information provided in the pdf downloaded earlier may not be the latest. However, registered participants will be informed through a mail about any such change.

Certificate Policy

1) Certificate of Excellence will be awarded to the top 3 teams.
2) Certificate of Participation will be given to all participating teams.
3) Disqualified teams will not be considered for any certificates.

Contact

Vipul Garg - 09993261099 – gargvipul97@gmail.com
Vishal Jain - 08982414271 – vishaljain_tkg@rediffmail.com
Shubham Gondey – 09907371704 – shubhamgondey@gmail.com
Sarthak Jagetiya - 09589006158 – sarthak.jagetiya@gmail.com