



The Machinist

Aim: Time to test your innovative and engineering skills by doing a simple task in an indirect and overcomplicated fashion. (Using concepts of Goldberg machines)

Stage 1 : There will be a quiz on quantitative and logical reasoning. Only top 5 teams will qualify for the 2nd stage

Stage 2 : The Teams are supposed to build devices (with the material provided to them) to complete a simple task in a minimum of twenty steps in the style of American cartoonist Rube Goldberg using the general material provided to all the participants.

Location: Lecture halls in mechanical department

Gameplay:

1. Teams have to manufacture the machine using the materials provided to them.
2. The machine should be completed within the given time limit of the competition. After the time is over no change in the mechanism will be allowed to do.
3. The machine must use at least twenty steps and also complete the task within two minutes. And no more than 100 steps are to be used.
4. If the machine malfunctions at a step, the team is allowed to manually guide it to the next step but a penalty is assessed for each intervention.

Scoring:

1. Marks will be taken aggregate of the steps that are taken and the time that is taken using a formula which will provide 60% weightage to marks obtained by no. of steps used and 40% to marks obtained by time taken to complete.
2. Two chances will be provided to complete the task.
3. In case of draw, judges might judge general impressions of teamwork, agility of structure, time taken for set-up and "Goldberg spirit".

Team Size: 3 to 4 members

References: Search Goldberg machines on youtube

www.pecfest.in

Punjab Engineering College

Sector 12, Chandigarh 160012

[Parneet Singh
Dilawri]

Event Coordination
+91 9041138354

[Aakash Singh]

Event Coordination
+91 9888275799