



SCIENCE AND TECHNOLOGY COUNCIL

TAKNEEK '18

ON THE SHOULDERS OF GIANTS



AVIATOR

Team Event (Y18 only)

Points : 15

Problem statement

Design a rubber propelled aircraft that will use its potential energy to provide thrust. Designing is a very crucial part of this event to ensure a good time of flight.

Rules and Regulations

- Each team will get 2 attempts to fly their plane.
- Best out of the 2 time of flights will be used for scoring.
- Each team will be given one trial run before the event.
- Models should be handmade, readymade models will not be accepted.
- The aircraft should not be powered by any electric/engine source, it should only be rubber propelled.
- There is no limitation on the size of the plane.

Team structure

There is no limitation on the number of teams from each pool. The teams can have maximum four members.

Task

- The participants will have to construct a plane capable of good glide, low drag and should be rubber propelled.
- Your model can be of any size or shape and can be made of any material. But, it is recommended to use lightweight material like balsa, Styrofoam, plastic etc.

Akash Jain

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- Teams need to hand launch their model. Any other mechanism like use of springs/rubber band, high start etc. is not allowed.
- Once launched, your model should be capable of doing maximum time of flight.

Scoring

Entirely based on time of flight (T). Time is calculated in seconds(s). Ranking will be based on 'T'.

Tie Condition

In case there is any tie, teams will have to repeat the problem statement until we get a winner.

Note:

**Team must report on scheduled time. If any team will fail this condition then points will be deducted as following scheme from their total score

- For first 10 minutes
2 seconds penalty per minute
- For 10 to 15 minutes
3 seconds penalty per minutes
- After 15 minutes team will be disqualified.

In case of any disputes, the decision of the Coordinators would be final and binding to all.

In case of any problem, feel free to contact.

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