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RV College of Engineering®

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi



Bangalore Branch



A E R O M A N I A

LET'S GLIDE

RULE BOOK



PROBLEM STATEMENT

Participants will design and build a glider made of balsa wood, which will be launched outdoors.

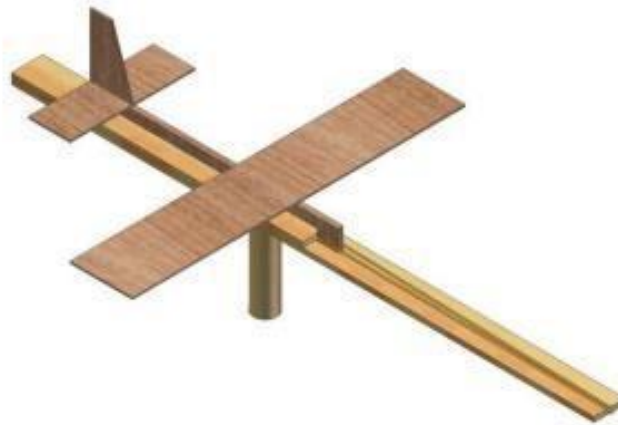
Materials Provided:

- One balsa wood sheet of dimensions (1000mm*100mm*4mm)
- Glue, Tape, Scale
- Scissors
- Blades
- Markers, Sheets
- Sandpaper
- Catapult

RULES

1. Maximum of 2 participants in a team.
2. The maximum wingspan of a glider must not be more than 500mm.
3. Maximum time allowed to build the glider is 90 mins.
4. Ready-made kits are strictly NOT allowed.
5. Each glider should be designed, constructed, launched and repaired by contestants at the Venue.
6. A glider, which meets all requirements, but appears to the judges to pose a danger to persons or property, will be disqualified at the sole discretion of the judges.
7. Each team will be permitted one glider at the contest.
8. The glider must have a hook on the underside of the fuselage to permit launching with the catapult.

9. The glider is hooked to the rubber loop at the end of the catapult. The contestant pulls the glider back until the hook of the glider touches the wooden stop at the front of the stop plate on the catapult (see diagram below). The launch angle of the catapult is determined by the contestant. Any launches made with the nose hook pulled beyond the stop plate will be counted as an unscored launch, thereby reducing the number of trials.



Judging:

1. Flight time is measured between launch and touchdown.
2. Each team is allowed 2 flights, the best flight of the 2 will be recorded as the team's score.
3. Gliders can be repaired or modified between trials if necessary.
4. Decision of the judge is final.

Score: (100 points possible)

1. Team Score (TS) = Flight time achieved on their best flight.



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2. Winning Score (WS) = Greatest Flight time achieved by any team competing.
3. Final Score (FS) = $(TS/WS) \times 100$

VENUE AND TIME

All participants must assemble at CS Ground on 6th Jan 9:00 AM.

Registration Fees: **₹550**

AWARDS:

1st and 2nd awards will be given to the teams with the highest final score.

Prize Worth : **₹3000**



Scan To Register

Any doubts, please contact

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