# **GLIDEon**

#### Problem Statement:

Design and Fabricate a Styrofoam Glider and fly it to perform the given task.

#### Rules and Regulations:

#### Model Specifications:

- The model should be a Styrofoam glider which can glide without any power.
- The wing span should not exceed 200cm.
- The model can be hand launched or any mechanism can also be used to lauch the model.
- The aero model must be hand-made.
- For information on design you are advised to visit http://students.iitk.ac.in/aeromodelling.
- Participants can use Design-Foil software to design the aircraft wing.
- Participants must make all parts of the glider themselves. Usage of Readyto-Fly (RTF) and Almost-Ready-to-Fly (ARF) kits is strictly prohibited. Use of servos and remote control is allowed.
- Use of gyroscopes (gyros) is prohibited.
- If anyone is found not following above rules, they will be disqualified. Use of CF rods allowed for strengthening.

# Team Specifications:

A team can consist of maximum of 3 members each. Maximum 5 teams can participate from each pool.

# Event Structure:

- 3 teams will be selected based upon their gliding distance without the use of control surfaces with only one chance of throw.
- All the qualifying teams will fly their gliders using only ONE control surface for the final round.
- The glider will be launched from a specified place which will be at a height of atleast 10m from ground.
- Each pool will be given 2 servos for the event.
- 2 chances will be given in the final round. The best attempt will counted for their score.

# Judging Criteria:

# **Final Round**

• The direct distance between the launching point and the point where the glider touches ground will be measured.

- The teams will be given the final ranks according to the distance travelled by their gliders in final round.
- In case two teams (among top three) have same scores, the lower score of their two attempts will be compared.

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

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In case of any doubt, contact the secretary of your hall or any of us.