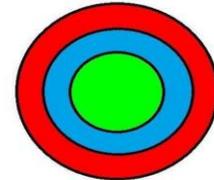


# Wright Flight

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## EVENT FORMAT

- ☐ In this event, contesting teams must **build a Radio controlled plane**.
- ☐ **A Hard copy of a 1-2 page report** must be submitted by the teams prior to the event. The report must include design aspects, materials used, construction procedure etc of the plane. (which will be taken as judging criteria in case of a **tie**)
- ☐ The event shall consist of **2 rounds** –
  - ☐ Qualifying round
  - ☐ Stunt flying and Payload drop round
- ☐ The **Preliminary round** tests the stability of the plane, and its basic manoeuvrability. The pilot must take off, fly the plane for 2-4 minutes, and proceed to land in the designated area. The teams clearing the preliminary round qualify for the second round.
- ☐ The second **round** involves two sub rounds: Stunt flying and Payload drop.
  - ☐ **Stunt Flying:** The pilot must take off and execute as many stunts among the ones listed (in score table below) as possible before landing. The scores for the stunts are based on the difficulty of the manoeuvre, and the team will be awarded the points upon successful completion of it.
  - ☐ **Payload Drop:** All teams must have a mechanism on their aircraft, for containing and releasing the payload at the designated location. Pilot must take off, circle the ground, and then line up and drop the payload at the specified location (three concentric circles of 2m, 4m and 6m will be marked on the ground). Depending on the **final** position (after drop) of the payload, points will be awarded. Points will be awarded for the weight carried, that is ,more the weight carried more points will be awarded. **The maximum weight of a single payload block should be 100 grams, any no. of payload blocks can be used.** The contestants are expected to bring their own payload.
- ☐ Each team will be given **TWO** trials in each round and the best score from the two trials will be considered for the final scoring.



The diameter of the concentric circles 2m, 4m and 6m respectively (NOT TO SCALE!)

## PLANE SPECIFICATIONS

- ☐ Maximum wingspan of the plane must be **1.5 m**.
- ☐ Maximum weight of the plane should be less than **1.7kg**.
- ☐ Any material may be used for fabrication of the air-craft.

- ☐ Only **ONE** electric motor can be used to power the air-craft. Unpowered or hand launched gliders are not allowed. Maximum thrust rating of motor **must not exceed 1.2kg**.
- ☐ Use of IC-engines in any form is not permitted.
- ☐ **The plane should take off from the ground and hand launching it by any means will not be allowed.**
- ☐ The structure of the plane should be **scratch built** by the participants. Toys and readymade planes are not allowed.

## GENERAL RULES & GUIDELINES

- ☐ Contestants will have to register online. On spot registrations can also be done.
- ☐ Students must carry valid student ID cards of their college, which they will be required to produce at the time of registration.
- ☐ A team may comprise a maximum of **FIVE** participants.
- ☐ Readymade kits are **NOT** allowed. Usage of Ready-to-Fly (RTF) is strictly prohibited.
- ☐ Teams should note that the place where flight testing is done is an open area; hence changes in wind direction may occur. The organizing committee will not be responsible for any change in weather at the time of testing.
- ☐ The RC plane has to be as per the specification mentioned below.
- ☐ A team is permitted to compete with more than one RC plane of same/different design and that design can be registered only once.
- ☐ Any team that is not ready at the time specified will be disqualified from the competition automatically.
- ☐ The RC plane will be checked for its safety before the event and would be disqualified if found unsafe for other participants and spectators.
- ☐ The teams will have to bring their own radio control equipment (if using any) and the organizing committee **will not** be providing any.
- ☐ The contestants should bring their own payload.
- ☐ The organizing committee will not be responsible for any damage done to the plane during the course of the event.
- ☐ The teams must adhere to the spirit of healthy competition. Judges reserve the right to disqualify any team indulging in any form of misbehaviour. Judges' decision will be final and binding.
- ☐ Specifications and rules are subject to minor changes depending on circumstance, without prior notice. Cooperation of all participants is asked in this matter.

## JUDGING CRITERIA & SCORING

The following will be considered while judging the airplane:

## Preliminary Round

<b>Qualifying Round</b>	<b>Max score 30</b>
Take off and Stable flying	10
Landing at designated location	10
Report	10

## Final Round

<b>A. Stunt Flying Round</b>	<b>Max score 60</b>
Roll	8
Loop	5
Split S	6
Inverted (min 10 seconds)	10
Immelmann turn	10
Stall turn	6
Limbo (Go through hoop)	15
<b>B. Payload Drop</b>	
Drop within 2m circle	30
Drop within 4m circle	20
Drop within 6m circle	10
For every 100gms carried	5

## **CONTACT DETAILS**

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