



# ESTELLA 2.0

Inspiring Students, Creating Leaders



## DRONEMASTERS CHALLENGE



"Seamless Innovative Flight"

Day 1: Qualifiers

Day 2: Finals

### Categories

Youth Innovators (Grades 9-12)

**The Millennium School  
Sector 119, Noida**

**201305**

<https://estellafest.in/>



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## PROBLEM STATEMENT

Design, build, and pilot a highly balanced and accurate drone, showcasing your exceptional flight control skills to conquer the arena!

## DRONE SPECIFICATIONS

- The drone can only have a **5-inch frame** or less (excluding the dimensions of the propellers).
- Maximum Terminal Potential : **24 Volts**.
- The drone must weigh less than **2.5 kgs**
- Lead-acid batteries are **not allowed**.
- Teams may use any wireless communication method.

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## GUIDELINES & GAMEPLAY

- Each team may consist of a maximum of 4 participants.
- 1 or more teams may race together. This will be confirmed on the day of event.
- The control, precision, stability, flying skills and balance will be measured.
- If any part of the drone breaks due to negligence while controlling, the team will be given a 5 point penalty.
- The teams with most points on day 1 will qualify for day 2.

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## MARKING SCHEME

| <u>Criteria</u>       | <u>Maximum Points</u> |
|-----------------------|-----------------------|
| Precision             | 20                    |
| Flying Skills         | 20                    |
| Speed                 | 20                    |
| Balance and Stability | 20                    |
| Control               | 20                    |
| Hurdles               | 10 per hurdle         |

If 2 teams earn the same points, factors like most hurdles overcome will be considered.  
A tiebreaker may also take place.

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## DECLARATION

The organizing team has made all efforts to make sure no changes are needed. However, modifications, clarifications or adjustments may be made due to unforeseen circumstances.

Participants are expected to extend full cooperation to the organizers and abide by all instructions communicated .

Any form of disorderly conduct, use of unfair means or intentional attempts to hamper the decorum and smooth conduct of the event shall result in immediate disqualification.

**Teacher In-Charge:** Mr. Manish Chandra Jha (99106 32320)

**Student In-Charge:** Varad Bansal (85128 43345)

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