

# Age of drones

## OVERVIEW

Design and build a wireless remote-controlled flying drone to complete the given tasks with in least time duration possible. There are two rounds .

## PROBLEM STATEMENT

Participants are expected to Design and build a flying drone to complete the tasks with in least time duration possible. There are two rounds and an optional BONUS act to show your outstanding design, manoeuvre capabilities which helps in increasing your winning chances.

## DRONE SPECIFICATIONS

Drone should fit in the box with dimensions 60cm x 60cm x 30cm

Drones should be powered/propelled with non-hydrocarbon engines

Flying machines which are eligible includes

- o Quad-copters
- o Hexa-copters
- o Octa-copters
- o Tri-copters

The vehicle has to be necessarily controlled by a wireless remote control system throughout the competition. The vehicle must have two remote controllers of different frequencies or an alternate frequency remote control circuit which can be switched to either frequency before the start of the game. This is done to avoid frequency interference between the two competing vehicles.

Participants must make all parts of the aircraft themselves. Usage of Ready-to-Fly (RTF) and Almost-Ready-to-Fly (ARTF) kits is strictly prohibited. However, the kit comprising of unassembled cut-pieces of Balsa wood is allowed.

Metal propellers are not allowed.

**All the rounds consists of obstacles and loop paths, drone which completes the task in least time in relative with other participants qualifies.**

**All the paths and acts to be performed using drones are explained at the arena by the organisers.**

### **JUDGING**

- Teams will be judged based on time duration, Design, Construction, Technology used.

Decisions made by judges is final and binding

**IN CASE OF ANY DISPUTE, THE DECISION OF THE EVENT ORGANIZERS IS FINAL.**  
**TEAM SPECIFICATIONS**

A team can consist of 3-4 participants

Teams may consist students from different educational institutions

### **ELIGIBILITY**

All students with a valid identity card of their respective educational institutions are eligible to participate in the event.

### **CERTIFICATE POLICY**

Certificate of excellence will be awarded to the top three teams.

Certificate of Participation will be awarded to the teams who have successfully completed the  
**ROUND 1**

### **Contact details**

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