



MADRAS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF AEROSPACE ENGINEERING
ASSOCIATION OF AERONAUTICAL ENGINEERS



PRESENTS

FLIGHT'26

FPV DRONE RACING

Register Now!!



For More Info



**PRIZE POOL
20K**

**ENTRY FEE : ₹1500/- PER
TEAM
(TEAM OF MAX 3
PERSONS)**

**20%
OFF**

**EARLY BIRD
DISCOUNT FOR
REGISTRATIONS
BEFORE MARCH 10**



MIT ANNEXURE



21 MARCH 2026



9 AM

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FLIGHT 2026

**ASSOCIATION OF AERONAUTICAL ENGINEERS
DEPARTMENT OF AEROSPACE ENGINEERING
MADRAS INSTITUTE OF TECHNOLOGY CAMPUS – ANNA UNIVERSITY**

FPV DRONE RACING

MARCH 21

DRONE RACING RULE BOOK

INTRODUCTION AND DESCRIPTION

What happens when speed, precision, and cutting-edge tech collide—and the pilot never even leaves the ground? Welcome to **FPV Drone Racing**, where the action tears through the sky and every split-second counts.

Designed for engineering students, tech enthusiasts, and anyone curious about UAVs, this event throws you straight into the adrenaline-filled world of competitive drone flight. This isn't just about flying fast. It's about seeing aerodynamics, propulsion, and control systems come alive as drones push their limits at insane speeds. Concepts from the classroom suddenly feel real when a wrong move costs you a lap.

Threading a drone through tight gates, snapping through sharp turns, diving vertically—all while flying purely through an FPV feed and reacting in milliseconds. With interactive briefings, live demos, and intense race rounds, you'll get a real sense of what it takes to fly with precision under pressure. Every lap tests your reflexes, challenges your thinking, and sharpens your engineering instincts.

So, gear up, lock in, and take control. This isn't just a race—it's a high-speed glimpse into the future of flight, where skill meets engineering and the sky becomes your track.

SCHEDULE

TIMING	EVENT
09:30 AM - 10:15 AM	Round 1
10:30 AM - 11:30 AM	Round 2
11:45AM - 12:30 PM	Round 3
12:30 PM - 01:25 PM	Lunch break

Qualifiers of each round and the Winners are selected based on highest score points.

General Rules

1. Pilots must first arrive at the Registration Desk by 9 am and verify their online registration. On spot registration can also be done.

2. Drone Specs:

- ❖ Battery capacity: 3S - 6S
- ❖ Props: 3 inches - 6 inches
- ❖ Both analog & digital is allowed
- ❖ FPV goggles / FPV screen compulsory.
- ❖ Any material for props but not Carbon Fiber.
- ❖ No Weight Limit
- ❖ If analog is used, Race band Channels (5658, 5695, 5732, 5769, 5806, 5843, 5880, 5917) and Channels 5645, 5740, 5800, 5860, 5945
- ❖ Turtle Mode is allowed to flip and recover your quad.

3. Pilots will carry a minimum of 3 batteries.

4. Pilots will carry their own battery chargers, charging points would be provided.

5. Pilots should bring their own soldering and other materials if needed.

6. All frames must pass a safety and airworthiness inspection. Once the airframe has been checked and approved, it must not be modified or changed, or it will need to be re-inspected.

7. Pilots are allowed to bring custom launchpads that do not impart any energy into the drone.

8. Each team must have a maximum of 3 persons (one pilot, remaining are spotters)

Venue Rules

1. Pilots must adhere to all rules within the competition venue, and will not fly in any other part of the venue unless it is a designated flight zone.
2. No pilot other than those actively participating in the current heat will plug in their quads until the heat is completed and the pilot have landed. This will be announced by the race director.
3. All batteries in possession of non-flying pilots for a heat will have to be handed over and placed on dedicated place assigned to each pilot on long tables.
4. Pilots must arrive at the venue with their complete setup 1 hour before the official race time and must be in complete READY-TO-GO state 15 mins before race time.
5. Pilots will NOT be given any practice sessions during the 30 mins before race starts.
6. Pilots who are not in READY-TO-GO state 15 mins prior to race start will be disqualified from participating in the race.
7. Pilots must contain all equipment and airframes within the pilot pit area and must solder, weld or cause any spark within the pit area. There will be established workbench areas for soldering, repairs and modifications.
8. Pilots are required to bring their own battery chargers to the race and any other tools/equipment required to setup, program or repair their quads such that their quads are always in the ready to fly state.
9. General charging of electronic devices including radios or any device with a self-contained power supply is permitted.
10. All batteries must be stored in a LiPo-safe bag or in an approved, fire-resistant container.

Race Format

1. All races will be governed by an appointed team of judges/organizers.
2. All races will follow the general rules and regulations of the competition.
3. Each race will be monitored by judges, timing/lap systems and volunteers to maintain fair and accurate competition.
4. There will be 2-3 Rounds with each team.
5. Each round may run for 1-2 laps which usually lasts for 1-3 mins depending upon number of teams and time available.
6. In each round, each individual team will be given a chance to set their fastest recorded time.
7. Point Structure will be announced at the day of race before the commencement of the event.
8. Any pilot garnering 3 successive Disqualifications will attain Elimination.

Race Rules

1. Pilots must stay within all prescribed flight paths.
2. Pilots must keep all aircraft in the disarmed state until they have been given the "ARM" signal.
3. After the competition of each round, pilots will immediately land and disarm only on the specified landing zone/ landing pad.
4. In any lap including finals will restart only if there is a false start.
5. Given race circumstances, all pilots have to say yes to a suggested modification for the rule to be applied to that race.
6. Pilots will be given a best of 2 max, in which to record their best lap time in each Rounds. 1 lap is mandatory while the other lap is optional if the pilot is happy with his/her lap time in any of the 2 laps max.)
7. Pilots must adhere to the prescribed launch sequence. No movement before the starting signal. False starts will incur a penalty.
8. Pilots must maintain control of their aircraft at all times and only fly within their skill level.
9. Once pilots have successfully completed all laps, they must return to the start/finish pad, land and DISARM.
10. Pilots that have crashed at any point during each round and are unable to resume racing must DISARM their aircraft.
11. Race tracks would have gates, pilots must successfully fly through all gates, around the flags, and other obstacles (if any) on the course. If a pilot misses an obstacle or gates, they must safely turn around and attempt the obstacle again. If they don't turn around and continue to race, that entire heat would not be counted.
12. If a pilot due to any reason, knowingly/unknowingly/accidentally goes out of bounds then pilots first priority should be to get the drone back in the bounds. And continue to race. If such an incident occurred multiple times, then organizers have full right to disqualify the pilot from heat or the whole event.
13. In the event of a crash or the inability to resume flight safely, the pilot must immediately DISARM their aircraft and give the Thumbs Down signal. For that heat pilot is deemed as Do not Fly.

PARTICIPATION CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

REGISTRATION FEE: INR 1500/- PER TEAM (LUNCH WILL BE PROVIDED)

For any queries, contact:

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GALLERY

