

# **ALGORHYTHM 2024-2025**

## **DRONE DYNAMICS**

### **Objective :-**

To develop and showcase high-performance drones capable of navigating challenging racecourses with speed, precision, and agility. The event aims to promote innovation in drone technology, enhance participants' piloting and engineering skills, and foster a competitive yet collaborative environment that inspires creativity and advances in aerial robotics..

### **Event Details:-**

- Date:
- Reporting Time:
- Venue: Vidyalankar Institute of technology, Wadala (E),  
Mumbai – 400 037
- Arena:
- Prize Pool: **25,000 WORTH OF PRIZEPOLL**  
**1ST - 15,000 INR**  
**2ND - 10,000 INR**

## Participation Rules and Criteria :-

1. All team members must report on time.
2. Each team members should carry their respective college Identity Card.
3. Team members should not exceed maximum number of 5

***No FPV and NANO Drones are allowed.***

## Drone Specification:-

- Frame size allowed is 330mm – 500mm.
- Maximum Motor KV allowed is 2200KV.
- No weight restrictions.
- Propeller size minimum 8 inches suggested.
- NO CAMERAS / VTX are allowed in the competition.

***All participants must adhere the above rules.***

## Gameplay :-

- Each team will have to complete the arena.
- 3 attempts will be given to each team and best of the 3 attempts will be considered. (interchanging pilots after attempts is allowed)
- Time will be recorded by the event head/coordinator present at the time of race and in case of any dispute coordinator's call will be final.
- Touching any obstacle while traversing may cause a penalty of 3 seconds.
- In case of propeller damage or any kind of technical issue team can have their drones for repairing.
- The pilot will be asked to arm the drone on the call of coordinator and on second call the race will start. The race will end when the pilot lands in the land area marked at the finish line and the time will be recorded. If the drone lands outside or touches the line of the landing area, then penalty may be applied.
- Any damage to arena may lead to disqualification of the team.
- All participants are requested to co-operate with the coordinators.

**NOTE: These guidelines are subject to change at the discretion of the event coordinators.**



## Conclusion :-

- We hope this experience will inspire you to dive deeper into the world of robotics and technology. Stay connected with us for future events, workshops, and challenges that push the boundaries of innovation.
- Until next time, keep exploring, keep building, and keep racing! Safe travels, and we look forward to seeing you at the next

### **DRONE RACING**