

DRONIX

Description :

"Soaring to New Heights ,unleash you drone Champion and compete for the victory"

Dronix shows how precise and agile you can be with drones. It's like a thrilling race where pilots navigate a tricky course. There are lots of challenges like sharp turns and barriers that need careful handling, not just speed.

The competition's core lies in pilots' abilities to expertly guide their drones through an array of obstacles while swiftly passing through designated gates. Each movement requires split-second decision-making, a keen eye for navigation, and precise control over their drones. It's not merely a race against time; it's a test of skill and mastery over their aerial vehicles.

The competition is about guiding drones through obstacles and gates quickly. Pilots have to make quick decisions, steer well, and control their drones perfectly. It's more than just going fast; it's about mastering their flying machines.

In short, Dronix mixes skill, and excitement. It's a cool mix of human cleverness and technology. Pilots show off how good they are at guiding drones through tough obstacles and gates, aiming for perfect control and speed.

Moreover, Dronix serves as a showcase of technological innovation. Participants often fine-tune and customize their drones, optimizing them for speed, agility, and control. The competition becomes a stage for showcasing cutting-edge advancements in drone technology, inspiring awe and excitement among enthusiasts and onlookers

Venue & Contact Information

Government College of Engineering Aurangabad, Chatrapati Sambhajnagar,
Besides Classroom Complex

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Participation in DRONIX:

- A match is played by a single team in one go, with each team consisting of 1 Drone.
- An individual may participate or construct a team of a minimum of 2 and a maximum of 4 members. Any institution (School/College/University/Vocational Institution) or group of students (within defined age), may form a team.
- Register team for the specified competition online on the official Wings website only. \
- A ready-made drone kit is not acceptable, if found so, the team will be disqualified.
- Decision of judges will be final. Drone Specifications.

Drone Specifications :

- X-frame or H-frame configurations can be used.
- **Drone size:** The drones have a frame size of around 250 mm to 350 mm (measured diagonally from motor mount to motor mount)
- **Propellers size:** Typically 5 inches in diameter to match the frame size and motor power, **minimum 3 inches and maximum 8 inches**
- **Battery : Min~Max : 3S~6S** , offering high voltage for powerful flight Piolet may carry 2 batteries and charger, charging points would be provided. Pilots should bring their own soldering and other materials.
- **Drone weight** : 800 grams onwards.

The Arena :

- The field area would be approximately 1500 M²
- There are marked/specified regions/spots to take off and land the drone.
- Hurdles will be placed at different locations in the arena.
- Fields will have arrows marked to depict the maneuvering path.
- Specific checkpoints will be defined in the arena for changing the batteries, adjusting gains, calibration of sensors, etc.
- Time will be given to the teams for charging their batteries at the completion of every stage.
- The requirement of time of charging the batteries during the conduct of competition will not be entertained.

