CMR ENGINEERING COLLEGE
EXPLORE TO INVENT

DRACO-BOTZ

RET CLUB CMREC

IDEAS
ROBOTS
PEOPLE
A BRIGHTER
TOMORROW

FLY
FAST
RACE
SMART

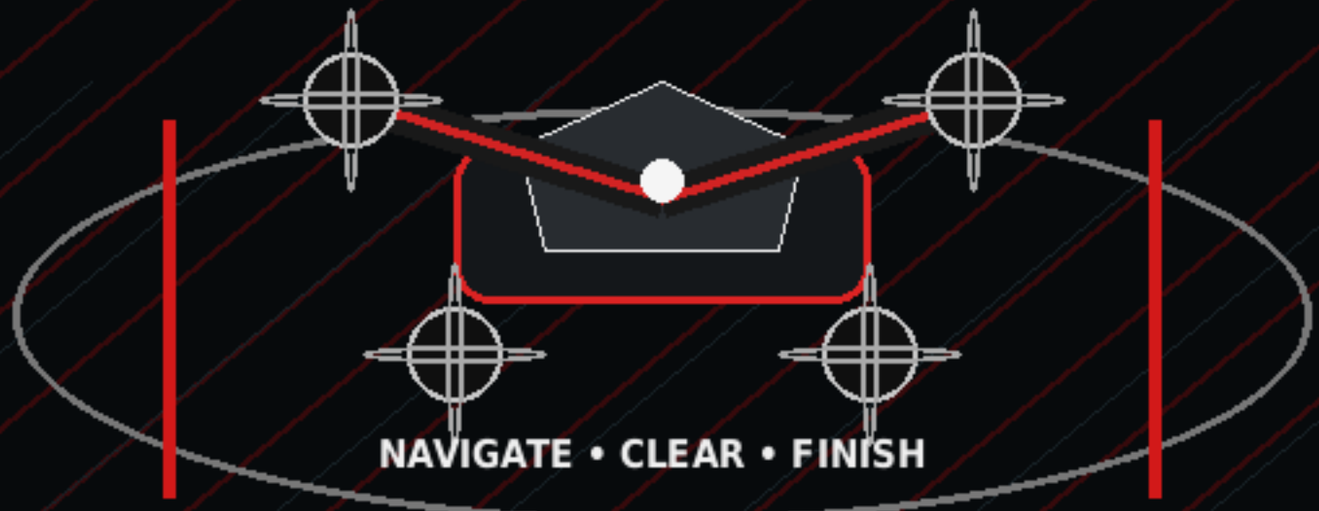
CHAKRAVYUHAM 2.0

NATIONAL ROBOTICS CHAMPIONSHIP 2026

DRONE RACE

DRONE
RACE
SPEED
SKILL

OFFICIAL RULEBOOK



1 EVENT OVERVIEW

- Open to all the participants.
- Drone evaluation includes design,
- construction, and innovation.

2 GENERAL RULES

- Team size: 2–4 members.
- Only Pilot and Co-Pilot are allowed
- inside the arena representing the team.
- Organizers may change rules according to
- the situation.

3 DRONE SPECIFICATIONS

- Maximum size: 25 cm × 25 cm.
- Weight: less than 2.5 kg.
- No restriction on frame material or
- BLDC motors, ESCs, propellers, batteries.
- Electrically powered only.

4 PROHIBITED DRONES

- Readymade Quadcopters are not allowed.
- Cinewhoop drones are not allowed.

5 TRACK DETAILS

- Marked regions for take-off and landing.
- Boxes, hurdles and other obstacles.
- Loops, bends, pillars and underpasses
- in random sequences.
- Obstacles will not exceed 10 feet.

6 ROUND 1

- Use a customized drone.
- Pass the hurdles/gates.
- Top teams qualify based on
- lap time and points scored.

7 ROUND 2

- Complete specific tasks within
- a certain amount of time.
- Challenging gates have various
- heights and altitudes.
- Points awarded according to performance.

8 TEAM ACCESS

- A team should consist of 2–4 members.
- Only Pilot and Co-Pilot are allowed
- inside the arena representing the team.

9 SCORING

- Round 1: qualification is based on
- lap time and points scored.
- Round 2: points are awarded
- according to performance.

10 ORGANIZER AUTHORITY

- The organizing team holds all the right
- to change any rules according
- to the situation.

11 FAIR PLAY & DISCIPLINE

- Fraudulent behavior in model
- specifications or wrong information
- may result in disqualification.

12 QUICK REFERENCE

- Team: 2–4 members
- Size: max 25 × 25 cm
- Weight: < 2.5 kg
- Power: electric only
- R1: lap time + points | R2: performance points