

EVENT ROUND DESCRIPTION:

Round 1:

“ The Flight Begins”

Round 1 will be confined to a single track embedded with hurdles. The participants are required to cross as many hurdles as possible within a given time. Each hurdle crossed will be awarded with individual points. The teams with the highest score will be qualified. In this round the participant can make as many laps as possible in the given time.

Round 2:

“ Strongest Man Standing ”

This round checks the payload capability of the drones, the drone has to lift the weights that are provided by the organizers and cross through various hurdles, within a specified time.

Round 3:

“ The winners RACE ”

The selected teams will be taken for the ultimate test. The participants should pilot their quad-copter for one lap in the shortest time possible. The pilot should stay in a fixed place while one of his fellow-mate can accompany the drone as it navigates through the hurdles.

ROUND INSTRUCTIONS:

ROUND 1:

- The quad-copter has to pass through the various hurdles of variant shapes.
- The obstacles can be rings, cubes, spirals, triangles etc.,
- The drone has to clear the obstacles and is given a specified time in which the operator can do as many laps as possible.
- The drone can be accompanied with its pilot.
- Each hurdle has its own points and there will be no negative points in case of drone hitting the obstacles.

- The total points are evaluated and later are moved to the next round.

ROUND 2:

- The team should complete the lap by navigating through the hurdles.
- The pilot has to be confined to one place, the drone can be accompanied with his team member.
- It has to move the weight from starting point to the ending point through various hurdles.
- Negative points will be awarded if the drone hits the hurdles.
- The further instructions will be announced on the day of event.

ROUND 3:

- This round comprises of various obstacles which the quad-copter has to clear.
- The pilot should stand at one place and fly the drone but one of his fellow-mate can accompany the drone.
- The team should complete the lap by navigating through the hurdles.
- Negative points will be awarded if the drone strikes the hurdles.

OUTCOME:

This event aims in bringing the applications of Drones in various fields and the future applications of drones and tests the engineering & applicative skills in the contestants.

AWARDS:

The highest scoring quad-copter is declared as CHAMPION.

The quad-copter which challenge with the best is declared as ADVENTURER.

The best Stunts Man will be awarded with title as EYE GRABBER.

Information for Round 2:

(The weights will be around (50-80) grams. The weight will be provided with hook like structure so as for the drones to hold. So according to the required payload the teams are requested to design and bring their drones.)

NOTE: The teams has to design their drones in order to hold the weights. The payload that is to be carried will be kept in a cube shaped box attached with a hook.

DISQUALIFICATION:

- If a participant does not comply with the rules of the event he/she will be disqualified from the event.
- Misbehavior of any kind will not be tolerated and the team will be subjected to disqualification from STEPCONE.
- The robot should not harm the field. Constantly harming the arena may lead to disqualification.
- Event conveners reserve all the rights to disqualify in case of any misbehavior.

OTHERS:

1. All participants will be given Certificate of Participation.
2. Drone is allowed to participate only once in that particular event.
3. Member participated from a team cannot participate in another team for the same event.
4. Drone pilot cannot be changed during the course of the event.
5. In case of any discrepancies, the decision of the coordinator, Technical Deputies and the event head shall be the final and no further arguments shall be entertained.
6. We request the participants not to assume anything without contacting us.
7. Team Drone Voyage is not responsible for any kind of damage to your Drone.
8. All the participants are requested to bring their college ID cards.
9. We request the participants not to assume anything that is not mentioned in the document without contacting the coordinators or Technical Deputies.
10. It is better to contact the event organizers before assuming anything about the event and regarding rounds.
11. It's our sincere request to all the participants to go through this rule book thoroughly and not a single point mentioned in the rule book will be compromised under any circumstances.

NOTE: Check the rule book frequently, it may have some changes.

Drone Specifications:

General:

Type ----- quad-copter/Drone

Battery ----- rechargeable/replaceable

Assembly required ----- yes

Material ----- PVC/plastic/carbon-fiber

Minimum age ----- 18 years

Control features:

Control type ----- wi-fi/Bluetooth-Module /smart-phone/RC controlled

Control range ----- less than 100meters

Power feature ----- less than 2500KV, 4000mAh

Other features:

Frequency ----- not more than 2.4 GHz

Channel ----- maximum 6 Channel

Flying time ----- maximum 20 minutes

Gyro ----- maximum 6 axis gyro

Additional features: *(Unmanned aerial vehicle details)*

Length ----- less than 40cm

Width ----- less than 30cm

Height ----- less than 10cm

Special features:

Micro type (weight) ----- 250gm to 2Kg

Flight altitude ----- less than 60 meters

- Participant need not satisfy all the specifications but should not violate/cross over the specifications.

In case of drones exceeding these specified measures the drone will be disqualified.

For understanding drone regulations in India follow website: <https://can-i-fly.skylarkdrones.com/#/>

DJ, high Stability, GPS Enabled drones are not allowed.

Point of Views – Pilot FPV, Remote Control View, Drone View, 3rd person operation aren't allowed.