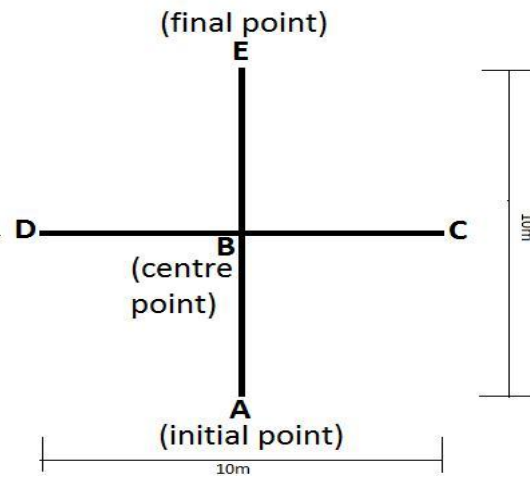


## GAME OF DRONES

### QUALIFYING ROUND



- Drone should take off from point A (initial point) with nose front away from the controller for the following and move towards point B (center point).
- From point B to point C and back to the center point.
- From center point to D and back B.

- From point B move forward to point E and take 180 degree turn, facing the nose front towards controller and back to the initial point and proceed the cycle as mentioned above.

## Round 1: Race the track

- Defeat the obstacles.
- Move the sponge ball to the desired position with the help of thrust by the multirotor.

## Round 2: Solve the maze

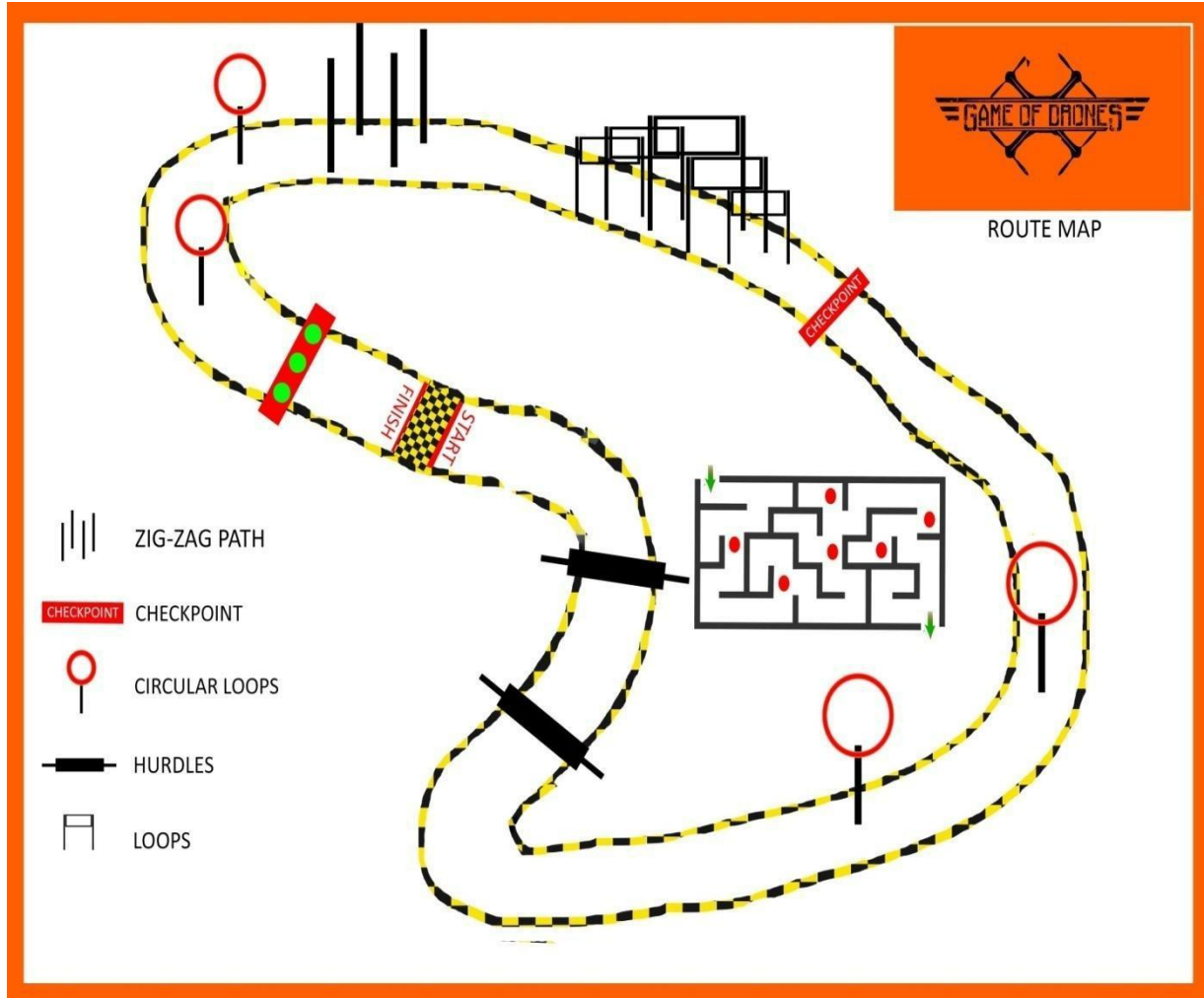
- Burst the balloon inside the maze.
- Manoeuvres

## RULES AND REGULATIONS

- The drone should fit in a box of 40x40x30cm.
- Drones that are self-made should have a failsafe installed on board.
- Students from any PU college/university can participate with valid identity card.
- A team can have maximum of 4 students.
- One participant cannot be a part of two teams.
- No time constraint for qualifying round.
- A maximum time of 10 minutes will be given for each round.
- The timer will start the moment the multirotor starts.
- Decision taken by judges is final.
- Questioning the judgement without any appeal will be liable for deduction of **5** points.

- Appeal application will be there with  
**NITHIN M**  
**CONTACT: +91 9947333810**
- Rules may subject to change under special consideration if found necessary.
- Only one attempt will be given for a team in both the rounds.
- Only one member should pilot the drone for a particular round.
- Exchange of materials are not permitted.
- **-5** points will be deducted if the drone goes outside the track/hit an obstacle.
- Drones include tricopter, quadcopter or octocopter.
- Design report should be submitted by 25/01/2018.

## GAME OF DRONES:





## Scores:

### First round:

- Hurdles – 5 points(2)
- Loops – 5 points(4)
- Ascending & descending loops – 5 points(5)
- Zig-zag path – 5 points
- Sponge ball to a desired position – 20 points

**Total points: 80**

### Second round:

- Maze – 50 points(10 balloons : 5 points each)
- Manoeuvres – 60 points
  1. Barrel roll
  2. Funnel
  3. Banked turns
  4. Free fall Take Off
  5. Braking Turns
  6. Circle-Nose towards controller

**Total points: 110**



## Bonus points:

- Design Report - 5 points (maximum of 10 pages)
- T-shirt - 5 points

**Total points: 10**

***Total points=first round+second round+bonus points***

## REGISTRATION:

- Registration fee: Rs 2000/-

## PRIZE:

- First prize of worth: 25,000/-
- Second prize of worth: 15,000/-
- Third prize of worth: 10,000/-



## CONTACT:

**Nithin M**

**+91 9947333810**

[nithinmanoharan01@gmail.com](mailto:nithinmanoharan01@gmail.com)

**Shanker R Kumar**

**+91 9567938441**

[shankerk0@gmail.com](mailto:shankerk0@gmail.com)

# THANK YOU