

## ROBO RACE

**You think it is as easy as it sounds? Think again. This is the grand prix of all Robot races. Make sure your bot has the same grit and brawn as you to handle the heat of our tracks here.**

**Build a manually controlled robot which is capable of racing on a rough circuit along with its fellow bots.**

**In the shortest period of time, it must be able to complete the track specified.**

### **GENERAL RULES:**

- Team can have a maximum number of 4 members.
- Team members can be from different colleges.
- A team is allowed to play with only one robot.
- In case the robot moves out of the arena, the robot will be placed at the previous checkpoint.
- Touching the robot during the game will lead to negative points
- In case of wired robot, the wire should remain slack throughout the race. It should not disturb the arena or the participants. If so then the team will be disqualified
- Unfair game may lead to disqualification of the team.
- The robot should not damage the field. Damaging/harming the arena may lead to disqualification.
- Decision of the Event Organizers shall be treated as final.

### **EVENT RULES:**

- The game play consists of two rounds (a qualifying round and a final round)
- Prelims- The participating teams will drive their robot individually in a track for preliminary round.
- The track may contain very few stable obstacles.
- The time taken to complete the circuit will be taken as your qualifying time
- Each time the bot touches either one of the boundary, there will be a penalty of +2 seconds.
- The other penalties and scoring points will be informed on the spot
- Finals- Based on the qualifying time of each team, top 6 teams will make to the finals.
- There is penalty for the final round.

- The three teams that finish the race quickly will be declared as winners.

### **BOT SPECIFICATIONS:**

- The ROBOT can have a maximum dimension of 250 x 250 x 200(l x b x h) (all in mm) with a tolerance of 5%.
- The maximum potential difference between any two points should be 12 volts DC and 5A.
- Robot must have power supply on board. There will be no provision of external power supply.
- The maximum weight is 5kg.
- The robot can be controlled by wired/wireless mechanisms.
- It should be controlled by a single person at a time.
- If the robot is controlled by wireless mechanisms, the robot must have a frequency remote control circuit which can avoid frequency interference with other teams.
- It must have only a single transmitting device

### **FIELD SPECIFICATIONS:**

- The track length and the number of laps will be revealed on the spot.
- The track will be provided with cushion along the edges of about few cms height to keep the bot within the track.

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