

ROBORACE

1. Problem Statement:

To design and build manually controlled wireless or wired robot that is able to surpass the obstacle and hurdles in its path in least time.

2. Dimensions:

The following size limitations is applicable to each participating robot,

- Width- 250mm max,
- Length- 250mm max,
- Height- No limitation,
- For wire robots length of the wire must be sufficiently long enough to cover the entire area i.e atleast 10-12 meters.
- Ground clearance- 20mm to 40mm.

3. Maximum weight:

The robot's weight should not exceed more than 3kgs.

4. Controls:

- The robot should not have voltage more than 12V dc between any two points.
- The participants will be provided with 230V, 50Hz ac supply.
- Participants will have to bring their own onboard power supply units.

5. Track specifications:

- The track width will be 300mm-400mm throughout.
- The track will consist of various types of hurdles.
- The track will consist of sharp turns.

6. Robot task:

- The robot has to begin from its start position.
- The robot has to clear all the obstacles in least time.

7. Game play:

- Design a robot either wired or wireless within the specified dimension that can be manually operated to clear the track.
- The robot that will complete the specified task in least time will be the winner.
- In the shortest period of time the racer must complete this number of laps from the starting position to the finish, without going outside the track.
- The ROBOT which will start on the START point and reach the FINISH point block by various laps and hurdles in the shortest time will be nominated as the winner.
- One team member will hold the wire if the robot is wired

8. Judging Criteria:

- Points will be given on the basis of the least time required to complete the track.
- Handtouch will cause time penalty of +20secs.
- The decision of judges will be final.
- Final scoring and the penalties rules will be announced at the day of the event.

NOTE: Points given by judges will be final. No argument will be tolerated; the team arguing with the judges will be disqualified.

9. Competition rules:

- Competition is open to all.
- Participants will have to carry their college ID cards along with

them.

- The organizers reserve all the rights to change any of the mentioned rules above.
- Changes in rule will be notified on the Megaleio website as well as to the registered participants.
- Participants who misbehave will be asked to leave the competition area and risk being disqualified from the contest.

NOTE: Please note that, no participants will be allowed to enter the arena during an ongoing match. Participants are expected to abide by the rules and should cooperate with organizers.

10. Team specifications:

- Maximum number of participants per team: 3
- Students from different institute can form a team.

11. Entry Fee: Rs 150/-.

12. Prize :-

1st prize :- 3000rs/-

2nd prize :- 2000rs/-

3rd prize :- 1000rs/-

13. Contact details:

Coordinator: Shivam .R. Sharma – 9764237516.

NOTE: participants are expected to arrive on time at the day of the event. Late comers are liable to be disqualified. Certificate of the participation will be awarded to all the participants. For any queries contact the event coordinators.