

RoboRace

Registration fees-Rs.300

Problem Statement

A manually controlled robot wired or wireless has to traverse through the track full of turns and obstacles in minimum possible time.

Rules

1. The robot will be placed at start line.
2. The robot can start the lap when timer starts.
3. The robot should remain on track, otherwise it has to start from last checkpoint crossed though timer will not be stopped.
4. There are penalties for each obstacle skipped. Penalties will be added to total time.
5. Timer will stop as soon as robot crosses finish line.
6. Scoring and penalties rules will be announced on the day of event.
7. One team member is elected as the robot handler. Only that team member is permitted to control the robot during the game. All other team members must remain outside the game zone
8. Participants who misbehave may be asked to leave the competition area and risk being disqualified from the contest.
9. Robots or participants that cause deliberate interference with other robots or damage to the arena will be disqualified.
10. All decisions about scoring, game play and timing, participation made by the Organizing Committee are final. Teams should completely respect their vote and decisions.
11. The organizers reserve the rights to change any or all of the above rules as they deem fit. Change in rules, if any will be highlighted on the website and notified to the registered teams.
12. Violation of any the above rules will lead to disqualification.

Machine Specification

1. The following size limitations apply for each robot

Width – 250mm max

Length – 250mm max

Height – 250mm max

2. The external device, which is used to control the machine, is not included in the size constraint.
3. The machine can be wired/wireless.
4. The machine must not be made from Lego parts, or any ready-made assembly kits, and it must be powered electrically, use of IC engine is not allowed.
5. The robot can be powered by a power source such as a battery fixed on the robot or by a stationary power source connected to the robot by a cord.
6. Potential between any two points on the robot should not exceed 12 V.
7. Participants should keep spare batteries otherwise; it may lead to disqualification if bot is not ready or stops in between the race.
8. The length of the wire (for wired bots) should be long enough to cover the whole arena and wire should remain slack during the complete race.
9. There will be only one Start and one Finish line.
10. The track surface and course line may have unevenness.
11. There will be certain obstacles in the racetrack, which will try to slow down the robot.
12. The design and size of the track may vary from that shown in the pictures.
13. Track may consist of bridges, speed breakers, marble pit, slippery path,

rotating disc, curve ramp down, seesaw etc.

Team Specification

A team may consist of a maximum of 2 participants. Students from different educational institutes can form a team.

Certificate Policy

Certificate of excellence will be awarded to the top 2 winners.

Certificates of Participation will be given to all the participants, but not to the teams which get disqualified due to disobeying any of the competition rules.