



ROBO RACE RULES FOR PRAXES-2023

Objective:

In this competition the contestant or team of contestants design a robot either wired or wireless within the specified dimensions that can operated manually. The robot that will complete the specified task in least time will be the winner.

Robot Specification:

1. The maximum dimension of the robot can be 30 cm x 30 cm x 30 cm (l x b x h).
2. The robot may be wired or wireless.
3. AC supply will be provided in the college.
4. The length of the wire (for wired bots) should be long enough to cover the whole track and wire should remain slack during the complete run.
5. Maximum weight must not exceed 3 kg.
6. The machine must be powered electrically only. Use of IC engine is not allowed.
7. Batteries must be sealed, immobilized electrolyte type (gel cell, lithium, NiCad, or dry cells).
8. The electric voltage anywhere in the machine should not be more than 12 V DC at any point of time.

General Rules:

1. The team should not consist of more than 5 members. Students from different institutes can form a team.
2. Unethical behavior could lead to disqualification. Faculty coordinators have all the rights to take final decision for any matter during the event.
3. The decision of the judges will be final and abiding. Argument with judges in any form will lead to the disqualification of the team.
4. Robot should be as per the given specifications.
5. Each member of the team must contain an identity card.
6. The robot should not damage the arena.
7. No test practice will be allowed on the arena.
8. The robot must not leave behind any of its parts during the run; else it will result in disqualification.
9. Certificates of Participation will be given to all the teams that will participate in the event, but not to the teams which get disqualified due to disobeying any of the competition rules.
10. ROBOCOMP Organizing committee reserves the right to add or update any rule.

Game Rules:

1. The competition is based on time trail system. There will a qualifying round for each team.
2. The top 5 teams from qualifying round makes it to the final round on basis of time trials.
3. Wires should remain slack during the course of the run. Pulling the wire to aid the robot in traversing may lead to disqualification.
4. If any of the robots starts off before start up call, the counter would be restarted and the machines will get a second chance. If repeated again then team will be disqualified.
5. If the Robot crosses a checkpoint, and moves off track, then the Robot would be placed back on the previous checkpoint crossed with a penalty.
6. If the robot by any chances falls from the bridge, the robot will be kept back to the previous checkpoint crossed with a penalty.
7. Your robot must be ready when call is made for your team.
8. Team members will be allowed only three times to touch or reset their robots position during the run.
However, this will lead to a time penalty and timer will not stop during this course of action.
9. The robot will be judged on basis of (in priority):- a. Time to complete the track. b. Number of checkpoints cleared.
10. Machine must not contain any pneumatic & hydraulic systems, IC engines.
11. Decisions about your robot will be taken by the organizers.
12. No team will get a second chance after completing the track with poor score.
13. The structure of the robot should not be changed during the competition

Venue	Mechanical Department
Faculty Co-Ordinator:	Prof. A. R. Chaudhari (C) Prof. A. K. Patel Prof. M. K. Patel Prof. H. U. Patel
Student Co-Ordinator	Panchal Abhi Nileshkumar Seliya Asfak Suthar Hitesh Panchal Ketan