

Line Follower

Registration fees-Rs.300

Problem Statement

To design a (wired/wireless) robot which can follow the black coloured path on the white surface.

Rules

1. Dimensional and weight limits for robots shall be strictly enforced. Robots must have passed inspection prior to competing.
2. Time shall be measured by an electronic gate system or by a judge with a stopwatch, based on the availability of equipment. In either case the recorded time shall be final.
3. Once a robot has crossed the starting line it must remain fully autonomous, or it will be disqualified.
4. Any robot that loses the line course must reacquire the line at the point where it was lost, or at any earlier (e.g. already traversed) point.
5. Any robot that loses the line course and fails to reacquire it will be allowed a single reattempt. The robot must start the course again from the beginning, and if it loses the line course on its second attempt it will be disqualified.
6. Participants are liable to give their robots for inspection and will not be allowed to bring any hardware/software changes that may fiddle with the working of the robot except for the hardware changes that may not affect the weight of the robot.
7. 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.
8. Violation of any the above rules will lead to disqualification.

Machine Specification

1. Machine should be fit in a box of 25cm X 25cm X 25cm (lxbxh).
2. Maximum weight of the machine should not increase to 1.500 kg. Excluding power source.
3. Machine can use maximum 12 volt at any given point of time to any particular component of the robot.
4. The machine should be autonomous.
5. IC engine are not allowed.
6. Readymade base of machine would not be allowed (Readymade wheels, motor, battery, RF Remote,switch, wires can be used).

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.