

Line Follower

GENERAL DESCRIPTION:

This is a standard line following competition which requires an autonomous robot which can follow a black coloured path against a white background in the least possible time and least number of errors without losing the line.

TYPE: TEAM EVENT

TEAM SIZE: A team may consist of at most 3 individuals and one robot.

RULES AND REGULATIONS:

- 1) Participants are instructed to bring their college/institution identity cards or any valid document which verifies that the participant is a student of the mentioned institution.
- 2) Registrations can be done on the fest's website. On-spot registration is also allowed.
- 3) The event will consist of two rounds. Based on participation and other constraints a certain number of top ranked teams of the preliminary round will be selected for the final round.

ROBOT CONSTRAINTS:

- 1) The robot has to be autonomous and hence should not be manually controlled.
- 2) It should be self-contained and hence should not be powered externally.

ARENA SPECIFICATIONS:

The competition will consist of two rounds (preliminary and final). Hence two different track will have to be traced. The first one (prelim round) will be made available 24 hours in soft copy format to the participants to plan their execution.

TRACK SPECIFICATION:

Track will be a black line which is 4 cm wide on a white background. There may be multiple paths for the destination.

SCORING SYSTEM:

The teams will be allowed 30 minutes to visualize the track. The bot will be positioned at the starting line and a timer will be started. Once the bot reaches the end line the timer will be stopped. In case of bot stopping at some point the team will be allowed to re-position with a time penalty of ten seconds and at most 4 times. The team with lesser time gets a higher rank. The decision of the jury will be final and no arguments will be sustained. In case of any mishap teams may be allowed to place the bot at the start line and restart the counter but it will solely be the decision of the jury.

DISQUALIFICATION CRITERIA:

Indulging in any of the following may invite instant disqualification:

- 1) Tampering with the arena, this includes by a participant or their robot.
- 2) Damaging other participants' robot.
- 3) Any kind of unruly conduct towards fellow participants or the organizers.
- 4) Copying of code or any other form of cheating.