



National Institute of Technology
Sikkim-737139

ABHIYANTRAN#5



A tribute to Indian space research

LINE FOLLOWER

Line Follower targets all those who are keen on learning more about the field of Robotics. The Line Follower 2019 is designed to be a perfect blend of fun, competition and learning. A creative platform for you to learn, explore and share your knowledge on Robotics & Automation.

□ Rules & Regulations: -

1. The goal is that the robot should follow a track marked with a black line. The robot must follow the line at all times. The whole robot must start behind the starting mark and is considered to have crossed the finishing line if any part of the robot crosses it when the robot has completed a full lap of the course.
2. Line Followers must be self contained, and not externally operated by wire or by remote radio control during the race.
3. Before commencement of normal racing, each racing team can test the racing environment on site
4. Within the given performance time, the handler is allowed to replace batteries and/or upload new program parameters to the Line Follower.
5. The Line Follower shall have a specified maximum number of attempts to run the track within a stipulated time limit (typically 3 to 5 minutes and from 2 to 3 attempts to be decided by the Organizer on

the day of the race). If the performance time limit is reached and the Line Follower is in the midst of a run, the Line Follower will be allowed to complete the run and the lap time will be valid if the run is successful.

6. If a Line Follower leaves the line, and has not crossed the finishing line, it will be considered to have gone off the track, and that run shall be invalid.

7. The robot should be made by the participant, i.e. it should not be bought from someone else.

8. The championship staff has the right to inspect that the robot is compliant to the rules at any time. The championship staff has the right to demand changes to the robot if it is not compliant to the rules. If you cannot perform the changes instructed, the robot may be disqualified from the competition.

9. The racing track can intersect with a crossing angle of around 90° .

10. The line is about 2.5 cm wide. No turns are sharper than 90° .

11. The arena edge is never closer to the line than 15cm .

12. The curve radius is at least 7.5 cm.

13. The robot that finishes first is adjudged the winner.

14. The material required should be under Rs.1500/-. If the amount is increased you have to bear the extra expenses. You should provide an authentic receipt to get your kit refunded.

Coordinators:

For more info and registration Contact:

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