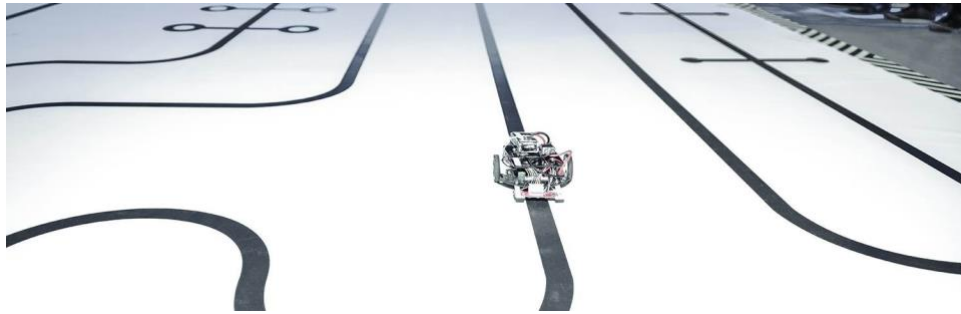


# LINE FOLLOWER



**He who is a good Follower can be a good Leader, is it True?**

Don't you hate it when you have to follow the same path again and again to hand over products in the work place? To solve problems like these, the concept of Following Robots exists. A "Line Follower" Robot is a mobile machine that detects and follows the line drawn on the floor.

Design an autonomous Robot (Bot) which will move only along a predetermined Track. The Robot traces that Track at the Starting Point, Follow the Path and Go to the End Point at the least time.

## ROBOT SPECIFICATION

- 1) Dimension of the Bot should not exceed 30\*30\*30 Centimeters.
- 2) The Bot must be autonomous.
- 3) The Power Source should be less than 12V and 36W (DC Power Supply only).  
However, a tolerance of 5 % is acceptable.
- 4) Bring own AC to DC Converters or own Batteries of any type (Li-ion, Lead Acid, Gel/Dry Cell, etc).
- 5) Power Supply of 230V, 50Hz AC will be provided.
- 6) Robots must be insulated for particular hurdles.
- 7) Lego Kits or Readymade Toys are not allowed.

## ARENA SPECIFICATIONS

## **FIRST ROUND - ELIMINATION ROUND**

- 1) The Elimination Round will consist of only Plain Track.
- 2) No two lines will be in the recent vicinity of each other.
- 3) The Track will be of White Color on a Black Background. However, the White Color may not be completely uniform and there might be slight variation in color.
- 4) The Arena is made of wood and such that there is sufficient friction for the Robot.
- 5) The width of the Line will be approx. (1.5 CM - 2 CM) throughout the Track with a possible error of may be 5 %.

## **SECOND ROUND - FINAL ROUND**

- 1) The Final Round will also include Elevations and Small Bridges on the Track.
- 2) There shall be discontinuities in the Track in Final Round.
- 3) Robots should be autonomous.
- 4) Data links to off-board computers are allowed.
- 5) No wetware (human) operated remote controls will be permitted.

## **GUIDELINES**

- 1) Teams must prior register their robots for participating in the Line Follower Event.
- 2) The Robot should follow the Robot Specifications provided. Any deviation from the mentioned specifications will lead to disqualification.
- 3) Changing of Robots will be strictly prohibited and if found to do, so leads disqualification.
- 4) The Robot should not damage the Arena.
- 5) No test practice will be allowed on the Arena.
- 6) Each team will be given a time slot. Delays are strictly not allowed.
- 7) The Event consists of two rounds: - Elimination Round and the Final Round.  
The Teams qualifying Elimination Round will be allowed to participate in the next round.
- 8) If in case, a situation of technical problem related to Robot occurs, then the Team can take a Technical Break of 1 Minute. It can be availed once per round.
- 9) During the Technical Break, participant will repair Robot without any outside help. The Registration

Fee is non-refundable.

- 10) Minimum 10 entries are must otherwise Event will be cancelled, and Registration Fees will be adjusted in other Events.
- 11) Re-registration is only allowed in Elimination Round.
- 12) Re-registration should be done within 45 Minutes of Time Period of getting disqualified.
- 13) Each Member of the Team must contain the Identity Card of his/her respected Institute.
- 14) Unethical behavior could lead to disqualification.
- 15) In case of any dispute, the decision of Judge, Faculty Coordinators and Organizers will be final.

## PRIZE MONEY

First Prize	₹ 14,000/-
Second Prize	₹ 6,000/-

## CONDITION

- 1) Prize Money is subjected to Total Number of Entries in the Event.
- 2) If 20+ Teams participate then only Second Prize will be given.
- 3) If there are less than 15 Teams, then only First Prize will be rewarded.

## REREGISTRATION FEES

Entry Fees	500 INR for per Robot
Combo Offer (Line Follower and Robo Race)	900 INR for per Robot (If Team registers their Bot in both Events)
Re-Registration Fees (Only for Line Follower)	250 INR per Robot Re-Registered

## **SCHEDULED TIME & DATE**

<b>Date</b>	<b>Time</b>
<b>29-02-2024</b>	<b>10:30 a.m. to 2:00 p.m.</b>
<b>01-03-2024f</b>	<b>10:30 a.m. to 2:00 p.m.</b>

# **CONTACT US**

## **EVENT CORE**

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## **EVENT HEAD**

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