

# Paridhi 2022

## DODGE IT

**EVENT TYPE: Line Following and Obstacle Avoider (Autonomous)**

**REGISTRATION FEE: 200/- Per Team**

### **PROBLEM STATEMENT:**

Build a fully autonomous bot capable of avoiding certain obstacles placed on the track while tracing white/black lines on a black/white surface to reach the destination. The bot has to cover a specified track within the allotted time.

The bot that takes the minimum time to complete the whole track avoiding all the obstacles i.e. with the highest score will be declared as the winner of the event.

### **❖ GENERAL RULES:**

- The dimension of bot should not exceed 15cm X 15cm X 15cm, with each parameter eligible for a tolerance of 10%.
- Participants would be provided with a direct 220V power supply only. Any special arrangement for powering the bot must be carried by the participants themselves.
- Only electrically powered fully autonomous bots are allowed. Failing to do so will lead to direct disqualification.
- Potential difference between any two points on the bot

must not exceed 24V.

- Lego parts will not be allowed.
- Any kind of damage to arena will lead to direct disqualification.

#### ❖ **EVENT RULES:**

- The team should consist of maximum 4 members.
- There will be only one round in the event.
- Width of the line to be followed is about 2.5cm-3cm and maximum height of each obstacle is about 20 cm.
- The bot has to complete the given track in the allotted time.
- Each team will be given limited time for dry run/calibration, after which team has to start the final run.
- Once a bot has crossed the starting point, it must remain fully autonomous, or it will be penalized, with limited hand touch allowed (if any).
- The scoring pattern, penalties and details of checkpoints and allotted time will be disclosed at the day of event.
- Teams can register multiple times for the event.

**IN CASE OF ANY DISPUTES, THE DECISION OF THE EVENT COORDINATOR WILL BE FINAL.**

#### ❖ **CONTACTS:**

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