

## ROBO CAR MANIA

### Introduction:

“Road safety is an essential need in the society, where road rules are seldom followed.”



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The Objective of Robo car mania is to educate students on the Road Safety and make the roads a safe place to drive. This initiative is to make school students understand the road rules in India and high risk of irresponsible road behavior.

### Problem statement

- Gear up! Come with your robot car to test drive on road track by following the basic road safety rules and get awarded with points.



## Event format

- The event consists of 2 rounds.
- Each team can have a wired or wireless Remote control robot capable of navigating on roads obeying the road signs.
- The robot should follow the rules & not hit the road signs kept in the arena.
- It will be one on one round in both 1 & 2 rounds.
- The teams which come out with top cumulative score at the end of the round 1 will be selected for the final round.
- The teams which are selected for the final round will be tested in the knowledge on their robot configurations & traffic rules.

## ROUND 1:

- The arena for the round 1 will be filled with road sign & traffic signals
- The robot must travel in the arena without hitting any road sign and reach the finishing line by following the road signs and signals.
- The bot can be wired or wireless in control. In case of wired robot, the wire length should be sufficient  
(For “Robo Car mania” wireless robot will be better)
- Minus points will be given for adjusting the robot/repairing the robot on the arena.
- Teams with lesser penalty and minimal time will be qualified to the finals.
- No trial rounds will be given inside the arena.
- Updated LOG BOOK should be brought along with the robot at the instant of the competition which will add you credits. Improper logbook details will lead to disqualification.

Venue: Regional / Zonal center near you. Students will be informed for their zonal centers.

## ROUND 2:

- Round 2 will be the final round.
- This will be one-on-one round.
- The selected 2 teams are required to complete the task.
- The robots will not be allowed to fight against each other.
- The robot should not hit on any road sign & cross lines inside the arena.
- The robot can be wired or wireless in control. in case of wired robot the wire length should be sufficient (5m or more)  
(For “Robo Carmania” wireless robot will be better)
- No trial round will be given inside the arena.
- The bot which finishes the road track with minimal time and reaches the finishing point first by following the rules will be **“The winner”**.
- Updated LOG BOOK should be brought along with the robot at the instant of the competition which will add you credits. Improper logbook details will lead to disqualification.

Venue: The final round will be held in Chennai.

### Schematic Arena



## Rules and specification

- Robot should not hit the road borders, public properties, etc. The team should have a minimum of 2 and maximum of 5 members. "ID card should be brought for each round of the event".
- The battery should be on board the bot.
- The dimensions of the Robot carmania 20 x 20 cm. The weight of the robot and battery combined should not exceed 6 kg.
- Both wired and wireless robots are allowed.
- Robot should travel only on the road, if it deviates from its path, penalty would be given for that team.
- In case of wireless robots, each robot must be able to support dual frequency so that there is no interference with the opponent's robots.
- Readymade remote controlled car (wired or wireless) will not be entertained.
- The voltage at any point on the bot should not exceed 12v DC.
- Unfair game may lead to disqualification of the team.
- Participants with wired robots are strictly advised to get wires of length 5m or more.
- Register your team name to the organiser committee.
- A team should have a leader or a spokesperson to interact with media, RAAIF and other audience.
- Judges and Organizers decisions are final.
- Any kind of permanent damage to the arena / stage will not be entertained, and if done, the robot will be immediately disqualified. The participant has to compensate for the damage caused.
- **The sample report and logbook sample pages are available in the DOWNLOAD section of the RobotzIndia website.**

## Contact

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