



Integration of Innovation and Intelligence

SANKALP

2K20

Presenting :- **Wireless - Robo Race**



Robo Race

PROBLEM STATEMENT:

This event requires a team to build a remote-controlled (wireless) robot that will compete in a Robo-Race against another team.

The team that finishes first and scores the highest points in 3 minutes match wins. The event is aimed at testing the speed and control of the robot.

BOT SPECIFICATION:

- *Maximum permitted size is 25cm x 25cm x 25cm.*
- *Maximum weight of bot 5kg.*
- *A voltage source of maximum 24 volts can be used as power supply. [Tolerance=5%]*

Robo Race

GENERAL RULES:

- ***Maximum 3 number of members are allowed in each team.***
- ***Each team must have only operator and each operator must operate a single bot.***
- ***Robot dimensions have to be within the given specifications.***
- ***The arena dimensions will also be same except the materials used to make the arena may vary.***
- ***Depending on the time constraints, each team will be given some stipulated time to test their vehicle on the track before the actual round.***
- ***Each Robot starts from the starting line, on the signal given by the event co-ordinator. The timer for 3 minutes will begin as soon as this signal is given.***

Robo Race

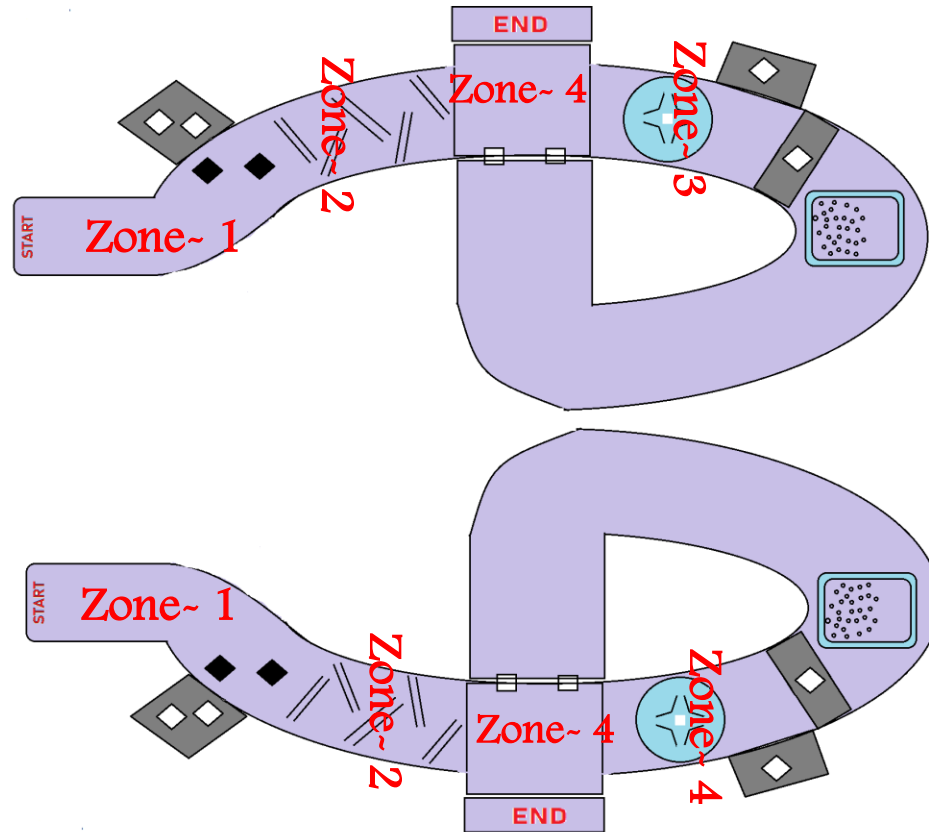
- ***Your Robot should always remain inside the track. If your Robot leaves the track, at any point of time, it gets penalized.***
- ***If your Robot remains stationary for more than 30 seconds at any point during the race, it will be disqualified.***
- ***You must not damage the track at any time.***
- ***The Coordinators hold the discretion to restart a race, in case of a valid reason to do so.***
- ***You will not be permitted to touch your Robot at any point during the race. Negative points will be awarded if are required to do so.***
- ***You are not allowed to make any changes to your Robot once the event commences.***
- ***There is a penalty for leaving the track. Negative points will be awarded in case of penalty. However there is no time penalty.***

Robo Race

- *The race is of single lap.*
- *Use of spiked wheels or release of grease or any other materials that would damage the track is dealt with serious consequences leading to disqualification of the team based on judge's discretion.*
- *The organizing team is not responsible for any kind of damage to your vehicle during the race.*
- *If none of the teams completes the race in the stipulated time then the race is called off and both teams will be evaluated for their performance based on the points earned in the match.*
- *The team with maximum number of points will be the winner of the match and qualify for the next round.*
- *No power supply will be made available to each of the two competing teams during the match Since it is a wireless Race and the Team must have their own source to control the bot (Battery/Adapter)*

Robo Race

ARENA DESCRIPTION:



NOTE:-

There would be 4 zones which would be described by the Coordinating Team

Robo Race

SOME IMPORTANT RULES:

- *The organizers reserve the right to change any of the rules as they see fit.*
- *Violation of any of the rules will lead to disqualification.*
- *Rules may be changed at the competition viewing the situation.*
- *Decision of the coordinators shall be treated as final and binding on all.*
- *The actual arena may vary from the specified arena.*
- *Only registered students are allowed to participate in these events*

For further enquiry contact the following event co-ordinators:

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