** PARAKRAM 2018**



Robotics club

**presents**

**ARC**

(Autonomous Robotics Competition)

**Introduction:**

“What was magic yesterday is called technology today! Humans now not only think for themselves but make machines ‘think’ as well. This event is all about an autonomous bot built from scratch by participants, judged on its ability to perform usual tasks. It tests the level of precision in the end to end designing and fabrication of the bot, and intelligent use of sensors and coding.”

**Event Structure:**

This event will be conducted in two stages:

1. **Qualifiers:**

In this round, bots will be judged on their ability to solve the given maze or

‘chakravyuh’ in shortest time. Bots will be placed at the starting point in the

arena and will have to pass through several checkpoints. Missing checkpoints

will result in deduction of points and in case of manhandling, participants will

have to start from previous checkpoint. Total score will be formulated by

calculating the total time taken by bot, no. of checkpoints passed and total no.

of manhandling done.

1. **The Final Battle:**

In this round, with increased levels of difficulty, participants will have to

count the blocks placed along their path and follow the wall in order

to escape from the ‘Chakravyuh’. In the end, they are supposed to

display the total number of blocks they encountered in their way.

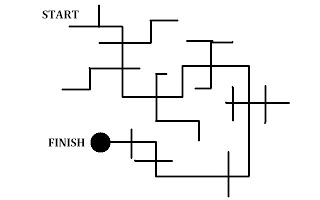
Team completing the given task successfully in least amount of time will be

declared winner.

**General Rules:**

1. Maximum of 4 can participate in a team.
2. Team has to be present at the arena 10 minutes before game starts. Absence will result to direct disqualification of the team.
3. Participants are advised to bring their own extensions for power supply.
4. No extra time will be given in case of wire entanglement. Participants are suggested to use wireless power supply for bots.
5. Participants should not disassemble their bots until results are announced.
6. Judges decision will be final.
7. Practice arena will be provided to the participants before the event starts. Once the match get started, no second trial will be given to team.
8. Teams will be given 10 minutes at the time of match to make changes (if any) to their codes.

**Reference Arena:**



**Contacts:-**

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**Prize Money:**

**1st – 3,000**

**2nd – 2,000**

**3rd – 1,000**