



INTRODUCTION :-

Showcase your skills using the concept of Physics. In this event, participants were instructed to make a robotic arm based small scale manual vehicle to move blocks from one place to another while avoiding some obstacles.

ABOUT US :-

URECKON is the annual technical fest conducted by the University Of Engineering And Management, Kolkata. URECKON brings together the best and brightest minds to battle it out in various exciting and knowledge-enhancing events in the fields of engineering. **UEM tech fest** provides a perfect platform to test the skills of making bots that can be used in gripping blocks and putting them in target zones so that it can complete the route by overcoming the Hurdles.

RULES AND REGULATIONS :-

1. The team should comprise of a maximum of 4 members.
2. Only one team member is allowed to handle the bot. No other team member is allowed to enter the arena.
3. The bot will be liable for disqualification if it causes any kind of damage to the arena.
4. The bot is not allowed to slide the blocks against the ground except for fine adjustments in the Deposit Zone.
5. Any damage done to the blocks will lead to immediate disqualification.
6. Maximum of 6 minutes will be given for each team.
7. The arena has 4 checkpoints, In case the bot gets stuck at any place, then the block it is carrying (if any)





- will be repositioned at its initial position and the bot will be kept in the checkpoints corresponding to that zone. There will be no penalty for this.
8. The blocks which are correctly deposited in deposit zones/pushed from ramp won't be disturbed. The timer won't be stopped during this process.
 9. In case of any disputes/discrepancies, the organizer's decision will be final and binding.
 10. The organizer's reserves the right to change any or all of the above rules as they deem fit. Change in rules, if any will be highlighted on the website and notified to the registered teams.
 11. The bot would be checked for safety before starting and will be disqualified if found unsafe for other participants.

BOT SPECIFICATION :-

1. Teams have to build a manually controlled bot which can do simple tasks of gripping blocks and putting them in target zones so that it can complete the route by overcoming the Hurdles.

- The bot can be wired or wireless. In case the participants use wireless mechanism they have to use wifi, Bluetooth or dual frequency remote.
 - The dimensions of the bot should be less than or equal to 300 mm X 200mm X 300mm (lxbxh) failing which the team will be disqualified from the competition
- # In case of wired bots, the length of wire should be minimum 2 meters so that the wire remains slack at any instant of time.
- The Bot must have an onboard power supply in any case
 - In case of an electric power supply, the voltage between any two points should be less than or equal to 18V at all times during the run.

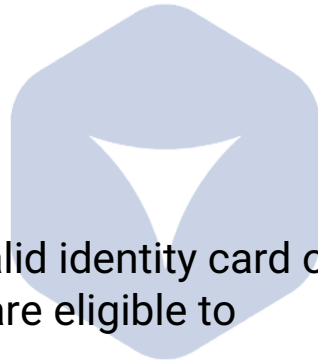




- Teams have to bring their own extension board for the power Supply.

ARENA DESCRIPTION :-

- The outer dimensions of the arena are 3000mm X 2500 mm (lxb)
- There will be 4 check point and 4 deposit point.
- There will different kind of hurdles and uneven path between each deposit point.
- “START” and “END” point will be there of respective dimensions.
- There might be few surprise elements in the arena of Final Round.



ELIGIBILITY:

- All students with a valid identity card of their respective educational institutes are eligible to Participate
- A team may consist of a maximum of 4 members.
- Students from different educational institutes can form a team

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