



# Mandsaur University

## Robo Race

### Robot Specification:

- 1) The maximum dimension of the robot can be 25 cm x 20cm x15 cm (l x b x h).
- 2) The robot may be wired or wireless.
- 3) The length of the wire (for wired bots) should be long enough to cover the whole track and wire should remain slack during the complete run.
- 4) Maximum weight must not exceed 3 kg.
- 5) The participants will be provided with 220 Volts, 50Hz standard AC supply. Participants will have to themselves arrange for adaptor or batteries.
- 6) The machine must not be made from Lego parts, or any ready-made kit, if we find such machine it will be disqualified.

### BATTERIES & POWER:

1. The machine must be powered electrically only. Use of IC engine is not allowed.
2. Batteries must be sealed, immobilized electrolyte type (gel cell, lithium, NiCad, or dry cells).
3. The electric voltage anywhere in the machine should not be more then 12V DC at any point of time.

### 4. Rules & regulations:



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### General Rules:

1. Each team can have maximum four members. Students from different institutes can form a team.
2. Robots will be inspected for safety and reliability before being allowed to compete.
3. Disrupting opponent's power is not allowed.
4. Arena is a 9 ft. X 6 ft. platform consisting of two ditches (a schematic diagram is illustrated herewith).
5. Organizers reserve the right to ban/disqualify any robot at any point of time, due to safety or any other reason.
6. All participants with valid Identity Card of their respective educational institutes.
7. ROBOCOMP organizing team have reserves the right to disqualify any participant who fails to adhere to the below mentioned game rules



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### . GENERAL RULES:

- 1) This is racing event so fastest and most balanced robot will win.
- 2) Robot should be as per the given specifications.
- 3) Each team can have maximum three members. Students from different institutes can form a team.
- 4) Each member of the team must contain the identity card of his/her respected institute.
- 5) The robot should not damage the arena.
- 6) No test practice will be allowed on the arena.
- 7) The robot must not leave behind any of its parts during the run; else it will result in disqualification
- 8) Unethical behavior could lead to disqualification. Faculty co-ordinators have all the rights to take final decision for any matter during the event.
- 9) Judge's decision will be considered final.
- 10) Certificates of Participation will be given to all the teams that will participate in the event, but not to the teams which get disqualified due to disobeying any of the competition rules. \*Co-ordination committee reserves the right to add or update any rule.



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### TRACK SPECIFICATION:

- 1) The track surface and course line may have unevenness. .
- 2) There will be certain obstacles in the race track which will try to slow down the robo.
- 3) The design and size of the track may vary from that shown in the pictures.
- 4) Arena will consist of Switch Bridge, speed breakers, marble pit, slippery path, rotating ting disc,  
curve ramp down, seesaw etc.



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