

NIRMAN

THE FOURTH EDITION

ROBO SUMO

RULEBOOK

Silicon Innovation Promotion Cell (SIPC)
Silicon University, Bhubaneswar, Odisha, 751024

EVENT DESCRIPTION

No of Members in a Team: 2-3

Event Description:

Witness the intensity of the **Robo Sumo**, where two teams battle head-to-head to push their opponent's bot out of the ring.

Teams control their customized sumo bots manually, using either wired or wireless methods, in a fierce showdown of strategy and strength.

The first team to successfully knock the other's bot off the ring earns a point, bringing them closer to victory. Get ready for a compact yet thrilling clash in the world of **Robo Sumo!**



ROBOT SPECIFICATIONS

- 1) The maximum dimension of the robot can be 30 cm x 30cm 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 5 kg.
- 5) The participants will be provided with 220 Volts, standard AC supply. Participants will have to themselves arrange for adaptor or batteries.
- 6) The electric voltage anywhere in the machine should not be more than 12V DC at any point of time.
- 7) The machine must not be made from Lego parts, or any ready-made kit, if we find such a machine it will be disqualified.

GENERAL RULES

- 1) Robot should be as per the given specifications.
- 2) Each team can have maximum three members. Students from different Institutes can form a team.
- 3) Each member of the team must contain the identity card of his/her respected institute.
- 4) The robot should not damage the arena.
- 5) If any of the robots starts off before start up call, the counter would be restarted and the machines will get a second chance. If repeated again then team will be disqualified.
- 6) Your robot must be ready when call is made for your team.
- 7) 3 rounds will be conducted with 2 min, 1 min 45 sec and 1min 30 sec duration for set 1, 2 and 3 respectively, making a total of 5 min and 15 sec for a single battle. (Subject to change)
- 8) Points will be given to the teams on the following criteria:
 - I. Bot A pushes Bot B off the ring, points will be given to bot A.
 - II. Bots are required to have at least 2 wheels inside the ring at all times else point will be given to the opponent.
 - III. If time is reached and the score is tied, a sudden-death elimination will begin. The first team to score a point is the winner of the game
- 9) No test practice will be allowed on the arena.
- 10) If a robot becomes disabled during the competition, it will be declared the loser of the round.
- 11) Unethical behavior could lead to disqualification. Co-ordination committee has all the rights to take final decisions for any matter during the event.
- 12) Judge's decision will be considered final.
- 13) 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.

PRIZES

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