



## **ROBOGENESIS 2026**

**THEME OF THE YEAR: SUSTAINABLE CITIES AND COMMUNITIES**

**CATEGORY 2: SUMO WRESTLING BOT (GRADES 4 TO 6)**

**EVENT DATE: 29<sup>TH</sup> AUGUST 2026**

**Sumo Wrestling Bot** is a robotic competition where two robots, controlled wirelessly, compete inside a circular arena called the "dojo." The objective is to push or force the opponent's robot out of the ring or make it immobile within a specified time. Both robots must remain inside the arena's boundaries during the match. The robots engage in direct physical contact, relying on strength and strategy to outmanoeuvre the opponent. The match concludes when one robot is pushed out of the arena or becomes immobile for a designated period. Robots must comply with size, weight, and power supply restrictions to ensure fair play. This competition emphasizes strategic thinking, strength, and manoeuvrability, providing an exciting and competitive experience for the participants.

**Objective:** The team should design and build a **wired** or **wireless remote controlled robot** that competes to push or force the opponent out of the arena within a specified time.

### **General Rules:**

- Each team should consist of 3 students from any engineering stream and any year
- The Robot should be designed as per the given dimension and perform the complete task within 2 minutes.

### **Robot Criteria:**

- Robot Dimension:**  
**Length x Breadth x Height = 25cm x 25cm x 25cm (Maximum)**
- Weight: Upto 3 Kg**



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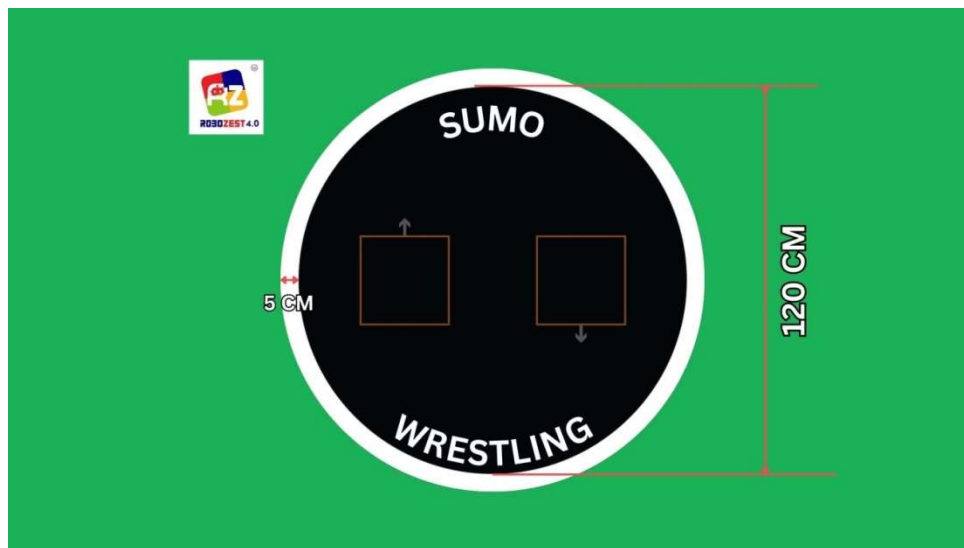
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- iii) Power source: 12V DC (Maximum)
- iv) Sumo field diameter: 120 Cm with 5 Cm Outer Ring

**Game Rules:** In this category, participants must build a wired or wireless-controlled bot to compete in a sumo wrestling match. The objective is to push or force the opponent's bot out of the ring within the time limit, following fair play rules.

### SUMO WRESTLING ARENA:



### Rules and Regulation:

- The bots must be controlled wirelessly or wired remote control systems .
- Each bot must adhere to the specified size and weight limits provided by the competition organizers. Exceeding these limits will result in disqualification.
- The Robots must be placed inside the boxes given in the arena and it should start moving towards the arrow direction mentioned in place.
- **Moving directly towards the opponent is not allowed.** Both the robots should move towards the arrow initially and then they should start wrestling against each other.
- Each team will be given three chances to compete against each other in the match within the given 2 minutes.

- The team that wins the most out of the three rounds will be declared as the winner of that particular match.
- Opponents will be declared based on the lot system during the prelims round
- Bots are not allowed to use weapons or any other mechanisms designed to damage the opponent's robots. Only pushing and physical force exerted by the robots are permitted; damaging actions result in disqualification.
- The robot must remain intact during the match; no parts should detach in the arena during the wrestling. Loose or falling components may incur penalties or disqualification.
- Each team is allowed one chance to touch or adjust the bot during the match. (Only in the case of the robot is completely inactive or if it topples)
- Any manual intervention beyond this single chance will result in penalty or disqualification.
- Only the qualified team from the first match will move to the further rounds.
- **Total time for the task is 2 minutes.**
- **The game starts once the referee gives the whistle.**
- **Judges decision will be the final.**
- **The tournament will be in different levels such as League matches, Qualifications, Quarter-finals, Semi-Finals and Finals Round based on the total number of teams.**
- **After the League matches, the game fixture will be declared based on the results of the league matches.**

#### General Info:

- *Pre registration is mandatory; On-spot registration is not allowed*
  - ***Last date for Registration: 20 August 2026***
  - *Participants must come with their school ID card*
  - *Certificate will be provided for all the participants*
  - *For Registrations – [www.greenfieldchennai.com](http://www.greenfieldchennai.com)*
- *For any queries or clarifications - **9499945291 / 7845140131***



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