

Robo-Wrestling Jr.



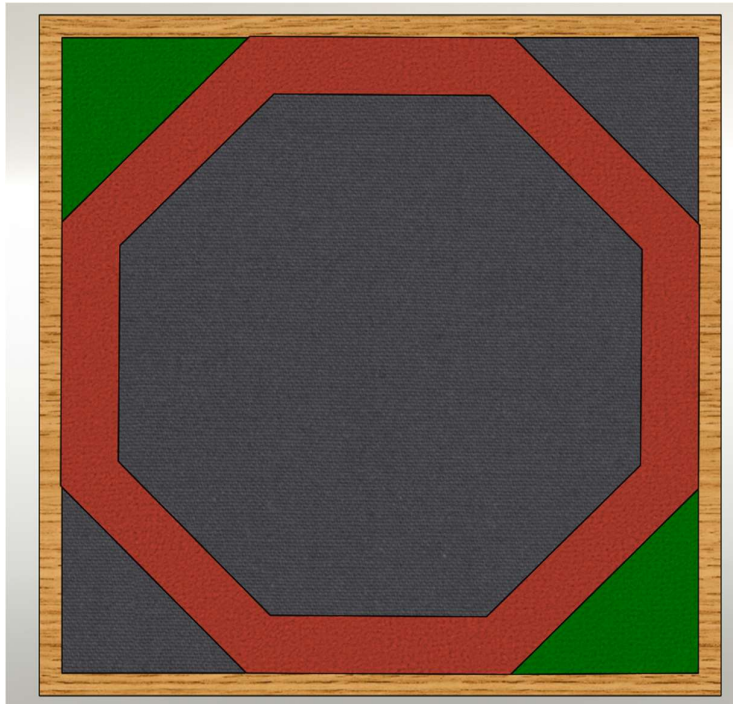
Introduction:

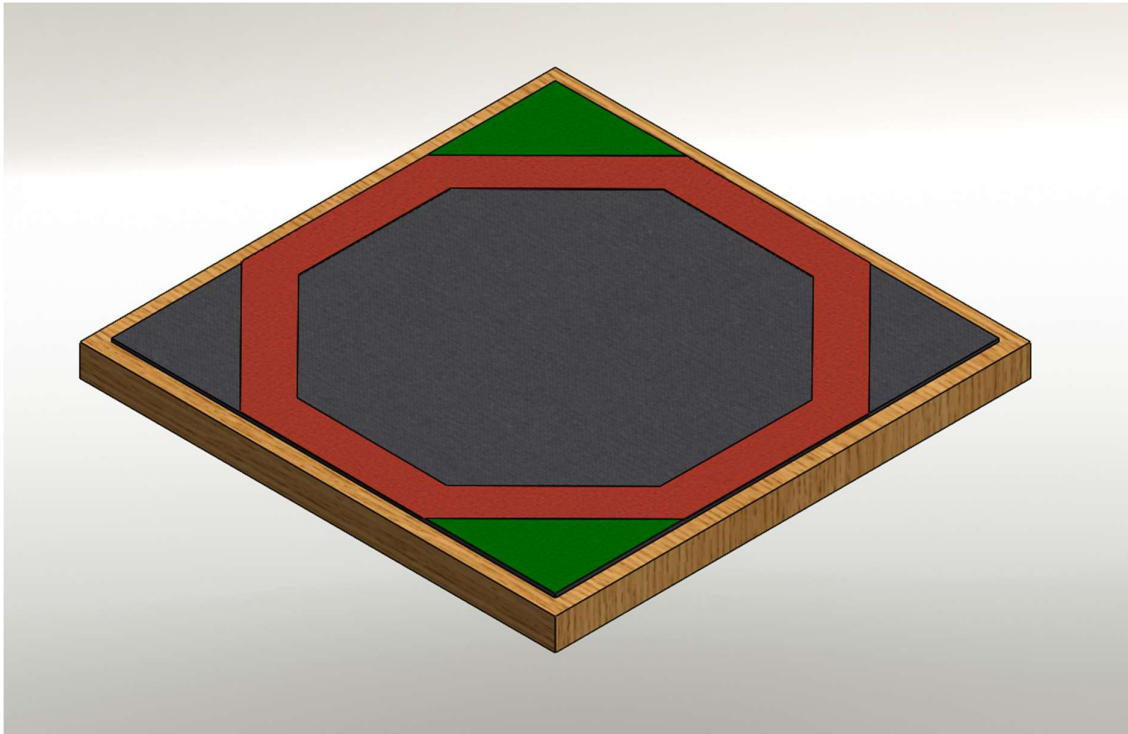
Welcome, aspiring students and innovators, to **Robo-Wrestling Jr. Competition!** This competition challenges young innovators to design and engineer robots built for the wrestling arena. Participants will put their creations to the test in head-to-head matches, where strategy, resilience, and technical mastery determine who comes out on top. More than just building a machine, this is about crafting a true contender — one capable of outmaneuvering, outlasting, and overpowering the competition.

This manual outlines the official rules, regulations, and scoring for **Robo-Wrestling Game**. Each participant and team is expected to review these guidelines to ensure a fair and engaging experience for all. Prepare to bring your unique designs to life and compete for recognition in this dynamic arena of robotics!

Arena:

The arena is made up of two concentric octagons. The inner one black ring is surrounded by a red boundary. The goal of the robot is to push the opponent's bot out of the outer octagon. Robot gets the points when it pushes the opponent's bot in the red zone. The team that gets maximum points will win.





- All dimensions are in mm.
- The arena will be square shaped of side 3000 mm.
- The main arena will be circular in shape with maximum diameter of 2400 mm.
- It will consist of two concentric octagons of diameter 2000 mm and 2400 mm.
- The inner circular area is called “Play Zone” while the outer circular area is red in color and is called the “Danger Zone”.
- A white line of 30mm drawn through center of Octagon divides the arena in two equal halves.
- There are starting zone of 300 mm x 300 mm on the opposite sides of this line that indicates the starting zone of the two competing teams.
- The arena will be made up of wood and the markings on it including all the zones will be drawn using paint.

Points:

- Each team earns 4 points for pushing the opposition in the red zone and 10 points for pushing the opponent out of the red zone.
- If a robot goes in the red zone on its own without being pushed by the opponent robot, then 5 points will be deducted from the team score entering the red zone. No points will be given to the opponent in such a case.
- The score of the team may be negative.

- Judges' decisions will be treated as final and binding to all.
- The organizers reserve the right to change any or all of the above rules as they deem fit.

General Rules:

1. Eligibility:

- Participants must be school students aged 7–13 years
- A maximum of 5 members per team is allowed.
- During the game, matches are in the format of 1 vs 1.

2. Safety:

- The Robot will be checked for its safety before each match and will be discarded if found unsafe for other participants and spectators.
- Team members are not allowed to step into the arena. Only organizers are allowed in any situation. The team will be disqualified if any of the team members steps into the arena without the approval of the presiding organizers.
- Only one member of the team is allowed to handle and operate the robot.
- Participants are not allowed to keep anything inside the arena other than its robot.
- No robot is allowed to use any flammable, combustible, explosive or potentially dangerous processes. Proper protection majors from short-circuiting of batteries are required to be taken by participants for the safety of everyone present at the arena.
- The robot should not scratch, damage or destroy the arena or accompanying parts of the arena. The robot should not shoot anything at the opponent's robot

3. Disqualification:

- Any team that is not ready at the specified time will be disqualified from the competition automatically.
- In case of any disputes/discrepancies, the organizer's decision will be final and binding. The organizers reserve the right to change any or all of the above rules as they deem fit.
- Any robot found damaging the arena will be disqualified after three warnings. The final decision will be taken by the organizers.

Game Rules:

- One minute setting time will be given in between the rounds.
- The robot must start from the starting point. The operator may abort the match at any time. In such a case, the opposite team will be declared as the winner.
- No hand touches are allowed in between the matches unless both the operators of the respective robots want a restart.
- Use of Jammers is not allowed. Participants found violating this rule will be disqualified from the competition.
- There can be interference problems related to RF modules in case you are using them. It is the responsibility of the participants to overcome it. Organizers are not responsible for it.
- In case of damage, a repair time of 3 mins each would be given.
- Judges' decisions will be treated as final and binding on all.

Robot Specification:

- The machine should fit in a square of 300 mm x 300 mm x 300 mm. No tolerances are allowed.
- The combined weight of the robot and the remote must not exceed 3 kg.
- If the team is using a laptop or a mobile phone for controlling the robot then its weight is not included in the above.
- The robot must be stable and must stand on its own at the beginning of the run when put in the starting point. Robots not fulfilling these criteria will be disqualified.
- During the match, the machine should not leave anything/any parts behind while competing.
- Readymade (market sold) robots with or without modifications will not be allowed in the competition.

Power Supply:

- The machine must be completely self-contained and should not receive outside assistance. It should not use an energy source employing a combustion process.
- Machine should have an onboard power supply. No external power supply is allowed.
- Voltage on the machine at any point should not exceed 24 V DC.



Event Logistics

- **Venue:** Cambridge International School, Akurdi, PCMC, Pune.
Google maps location: <https://share.google/9rHx8Pm8lYo0yYLow>
- **Date:** Sunday, 16th November 2025
- **Registration Fee:** ₹1500 per team & ₹1000 for Individual participation
- **Last Date to Register:** 10th Nov,2025
- **Contact:** 9730480960, Motionrobotics@gmail.com ,
- **Website:** www.motionrobotics.in