

Robo-Soccer

Introduction:

For all those who have passion in Robotics RanSangam presents robo-soccer. This competition is to show how good and swift robot of yours can be by playing soccer using it and scoring more goals.

General Rules:

- The robot will be controlled by wired/wireless remote from outside the arena.
- In case of wired bots, the length of wire should be minimum 5 meters so that the wire remains slack at any instant of time. If the participants use wireless mechanism then it is mandatory to use a dual frequency remote.
- If any team is found harming the arena, the team will be disqualified on the spot.
- The participants have to carry their own power supply.
- This is one on one match.
- Our team will not be responsible for any damaged one to the robot in the arena.
- Teams have to be present on scheduled time and delay will lead to disqualification.

Knock-Out Stage:

- The team should score maximum number of goals in order to win the match.
- Kicking mechanism can be used here to score goals.
- The knock-out stage will have two halves, each of 4 min with a break time of 1min between the two halves.
- The robot can move in the whole arena.
- In case of tie, additional 1 min will be given for competing. If ties till persists, coordinators will decide the winner on the basis of performance.
- In case the robot of Team A gets stuck to robot of Team B during the match then all the robots will be replaced to the starting position. Violation of any of the above rules will

lead to disqualification.

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Robot Specifications:

- Dimensions of the robot should be 30cm x 30cm x 30cm. (lxbxh)
- Weight of the robot should not exceed 5 kg.
- Any mechanism of robot should not damage the arena.
- Any mechanism should not be used to harm opponent's robots.
- Maximum voltage and current in the circuit should not exceed 12 Volt DC and 10 Ah at any time.
- Only up to 5% tolerance will be allowed else the bot will be unfit for the game and will lead to disqualification.