

# ROBOSOCCKER

**Introduction**–Fascinated by the Robots but also like Soccer! Let's blend the flavor of both the Robotics and the Soccer.

**Exodia 2k20** presents the event “**RoboSoccer**”, an event to bring out the footballer residing inside you through a Robot.

**Objective**– To build a bot capable of playing soccer in a one to one match.

## Bot Specifications-

- The bot should fit within a 25x25x25 cm box.
- Must Use Wireless Bots.
- The total weight of the bot should not exceed 4Kg.
- The voltage difference between any two points in the circuit should not exceed 12V.
- No side of the bot should be inclined.
- Any mechanism if used which can damage the opponent's bot will lead to immediate Disqualification.

## Game Play and Scoring

- At a time, 2 bots(teams) will compete against other.
- Each team has to defend the goal on its side and score a goal on the other side .
- The first leg of the tournament will have matches of duration 3 minutes each. It will be increased in case there is no result in the allotted time.
- The final leg (Semi-finals & Finals) will have matches of duration 5 minutes.
- The game will start with the ball at the center as shown in the Arena diagram and the bots at their corresponding starting positions.
- Each goal scored will fetch 1 point.
- After the end of the match, there will be a shootout round where in each team will be given 5 chances. Each successful shoot will fetch 1 point.
- A goal scored by a team in its own goal post, will be counted in opponent's favor.
- Winner of the match will be the one with maximum score(No. of goals + No. of successful shootouts).
- The tie breakers will be disclosed during the event itself. But the team scoring the goal in minimum time might be at an advantage.

## Arena

The dimensions of the playing field will be 240 cm x 120 cm. Width of the goal post will be 60 cm x 30cm.

A standard table tennis ball will be used for the match.



### General Rules-

- One team can have only one bot serving the purpose of both the attacker and the defender.
- A team can have a maximum of 5 members and minimum of 3.
- In case, the bots are stuck in a deadlock for more than 20 seconds, they will have to start off again.
- The voltage should not exceed 12V between any two points in the electrical circuit.
- Only the components given by the club can be used and no readymade kits are allowed.
- In case of any conflict, the decision of the judges will be final. • Any act of misbehavior or misconduct will lead to immediate disqualification of the team.

### Fouls

In case a team deliberately tries to cover a ball in such a way that the other team cannot regain the control over the ball anyhow, then that will be considered as a foul and the opponent team will be given a free kick.

**Registration fees: Rs.500 per team**

**Note: -**

**What is a Shootout Round?**

You have to devise some mechanism with the help of which you can aim at the goal post and shoot the ball into the goal post from various angles and distances.

For any further queries you may contact:

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