

YANTRA NATIONAL LEAGUE

Task:

Design a remote controlled robot capable to play soccer with the opponent robots.

Specifications:

Dimension and Fabrications

1. The machine should fit within a box of dimension **30 x 30 x 20 cm(maximum size)**. The external device used to control the machine such as remote control box.
2. The machine should not weight more than 3 KG.
3. Wired machines are not allowed.
4. Use of readymade toys is not allowed, but one can use the readymade circuits.
5. Robot should be manually controlled.
6. No weapons (blades, spikes) of any kind are to be attached onto the robot.

General Rules

1. The potential difference between any two points must not exceed 24V at any point of the run.
2. Each team can consist of a maximum of 5 members.
3. Participant must not exceed academic qualification of Bachelor's first year.

Robot Specifications

1. Each robot should be a manually wireless controlled vehicle.
2. The dimensions of the robot should not exceed 30 cm (l) * 30 cm (b) * 20 cm (h).
3. Readymade toys car or Lego are not allowed.
5. Weight of the robot must not exceed 3kg.



Arena Specifications

1. The arena is a simple 12ft * 8ft polished plywood base enclosed by a boundary wall (height 20 cm).
2. The arena shall be a custom made football field with a leveled base of wood.
3. All the markings shall be as per that of a regular football field which includes the centre line, centre circle and the D area.
4. Size of the goal post will be 2.5ft(l)*2ft(h).
5. size of ball will be 10 cm (approx.) in diameter.

Game Play

1. Each match will be of 6 min in two half's of 3 min each.
2. Half time will be of 2 min in which teams can repair their bots in case of any damage.
3. In case of a tie extra time of 3 min will be given which will be in two half's of 1.5 min each.
4. If the winner is not decided after the extra time, then penalty shootout will be done.

Event Rules

1. No dragging and picking of the ball is allowed.
2. If a bot throws the ball outside the arena, then other bot will get an advantage of free kick.
3. In case of a free kick bot has to keep a minimum distance from the bot who is taking free kick. Distance will depend on the position from where free kick is taken.
4. Penalty kick will be given in case of foul in the D area.
5. Each penalty shootout will be of 30 second time(one on one).
5. Pushing the other bot is not allowed.
6. In the case of a foul team will be given a warning and if the mistake is repeated, it will be disqualified.
7. If the participating bot causes any kind of physical damage to the opponent's bot, it will be immediately disqualified.



Certificate Policy:

1. Certificate of Excellence will be given to all the winners.
2. Certificates of Participation will be given to all the teams who qualify first round of the competition.
3. If any team is sponsored by a college or organization, that organization will also get the certificate of participation. **Teams need to verify the name of their sponsors (if any) during the time of registration to claim this certificate.**
4. The teams which get disqualified due to disobeying any of the competition rules will not be considered for the certificate.

REGISTRATION DETAILS:

- Early bird : Rs. 5000 only (June 1-July 15, 2017)
- Normal: Rs. 8000 only (July 15- August 30, 2017)
- Middle: Rs. 10000 only (September 1- October 15, 2017)
- Late: Rs. 12000 only (October 15- November 15, 2017)



ARENA:





NOTE:

COMPETITION DATE WILL BE PUBLISHED ONE MONTH BEFORE THE EVENT.

FOR MORE DETAILS:

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