

**Robo soccer** is a 1v1 arcade soccer game between two bots. There will be two teams who will be competing with their respective bots in the soccer arena with a maximum of 3 players from each team. The teams can bring their own bots, which must be made according to the rulebook as mentioned under "about the bot" section.

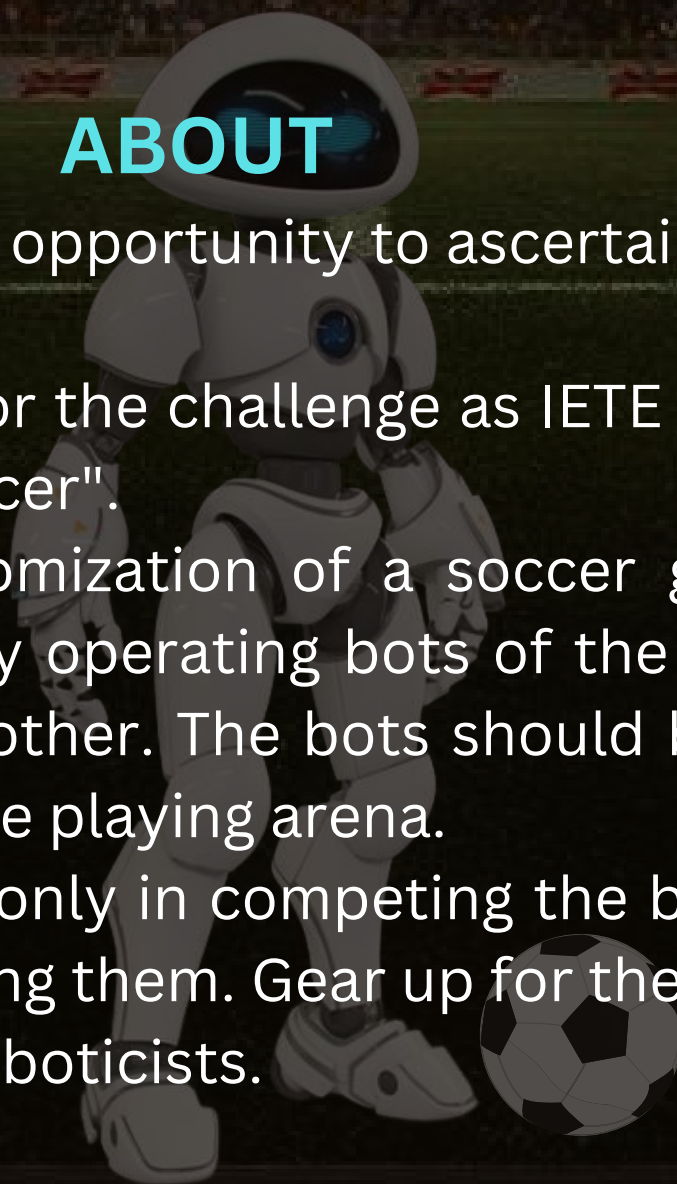
## ABOUT

Are you looking for an opportunity to ascertain your attraction to robotics?

Well then get ready for the challenge as IETE Students' Forum is here with "Robosoccer".

This event is a customization of a soccer game where the custom-built manually operating bots of the teams would be playing against each other. The bots should be able to tackle the impediments in the playing arena.

The fun here lies not only in competing the bots against each other but also in making them. Gear up for the battle and show us the power of the roboticists.



## GENERAL RULES

- Each team will be consisting maximum of 3 members with one bot from each team.
- There will be two teams who will be competing at the arena with their respective bots.
- The tournament will be of 3 rounds and each round will be of 5 minutes.
- The team scoring maximum points will be declared the winner.

### **There will be two methods to score.**

- Each ball pushed into goal = 40 pts
- Bursting the balloons will comprise of 20 points.

The bots will be mounted with a sharp object at the top which they will use as a weapon to pop the balloons of the opponent bot. If the balloon pops, the teammates will have to attach another balloon to their bot in order to continue the match within the given time limit. Meanwhile, the other team may utilise this time to goal and score.

## ARENA

- The arena will be a rectangular shaped soccer field prototype with some obstacles on the field.
- There will be goal post at both sides of the soccer field.



## ABOUT THE BOT

- Each bot should be a manually operated bot with 4 wheels configuration.
- Power supply - 24 Volts (maximum)
- The weight of the bot must not exceed 2kg. Dimensions should not exceed 20×25 (cm).
- The bots must have a proper structure to hold the soccer ball. The depth of this structure should not be more than 5 cm.
- Balloons will be attached with the bots during the match.
- Each bots should be attached with one sharp object (eg pin) at the top of the bot which will serve as weapon to burst balloons.
- Balloons will be provided.

