

**TECHNICAL EVENTS
ROBOMANIA- 2018
GULZAR GROUP OF INSTITUTES KHANNA
LUDHIANA**

**Faculty Coordinators-
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ROBO SOCCER

Problem statement

To build one manually controlled bot capable of playing soccer on an arena specially designed for robotic soccer match. The event is aimed at testing flipping and hitting of ball and bot control. For communication with computer either wired or wireless communication may be used.

Rules and Regulations

- Each team is allowed to have one bot.
- Weight should not be more than 3kg
- Organizer has rights to change the rule during the match if required.
- Grabbing the ball is not allowed. So bots should not have any kind of grabbing mechanisms.
- The bot must fit into a cube of (30x30x30) cm at all times. It may not expand at any time during the match beyond this size even for hitting the ball. Violating this clause will lead to immediate disqualification.

Game Play

- Teams will have to play a football match against other team. Teams will be divided into pools details of which will be provided at the starting of event.
- Minutes of setup time will be provided to each team for pre-game setup and testing.
- Each match will consist of two halves of 3 minutes each.
- Ball will be placed at the center of the arena at the starting of the match.
- In case of tie 2 min extra time will be given. The team to score first goal during the extra time will win the match. If no goal is scored during extra time, winner will be decided by penalty shoot outs during which 2 penalty shoots will be given to each team in turn. The better of two penalties will be considered to decide the winner.
- After the first half, goals will be swapped.

Scoring

- A goal will be considered to be scored only if the ball has crossed the goal line completely.
- Rules for Fouls:
- Any kind of intentional damage caused to opponent team's bot will be considered as foul. Intentional grabbing of the ball so as to make it impossible for other team to get the control of the ball will also be considered as foul.
- Decision of the referee will be final and binding.

Eligibility

All undergraduate students with a valid identity card of their respective institutes are eligible to participate in the event.

Note

- All decisions of a referee and judges are final.
- All the criteria will be checked before the match. If any ROBOT fails to match the criteria shall be disqualified.

Student Co-ordinator

Rakesh Kumar

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