



UIU ROBOTICS
A Step Towards Infinity!



Robocup

➤ Teams

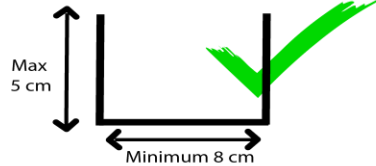
- Maximum 5 members per team
- All members must be undergraduate/school/college level students
- Team Members from different university/college/school are allowed.
- Team name is mandatory

➤ Robot Specification

- Teams can use 2 different robots but both robots must be submitted before the tournament begins. Only one can be used during a match
- Power Supply of up to 12 volts can be used
- *Use of kicking mechanism is encouraged but this mechanism cannot damage the opponent robot or it will result in direct disqualification
- Control System
 - Control can be semi-autonomous or manual
 - For manual control bluetooth, NRF,RF can be used
 - Wired robots will not be allowed
- Dimensions
 - Length: 25 cm
 - Width: 25 cm
 - Height: 20 cm
 - Weight: 2.5 kg



- Clamp Specifications
 - Closed type clamps will result in direct disqualification
 - Clamp width
 - Minimum - 8 cm
 - Maximum - 20 cm
 - Clamp Depth- Maximum 5 cm



*****Participants must be careful that their robots slope does not continuously damage the arena. Once or twice maybe accepted but continuous damage to the arena will result in elimination. This will be determined by the judges and organizers.*****

*****Intentional damage to the arena or severe damage to the arena will result in disqualification*****



➤ Arena Specifications

- Field Length: 10 feet
- Field Width: 6 feet
- The field will have curves on its sides so that ball doesn't get stuck in the corners and sides
- Centre circle will have a diameter of 2 feet
- Penalty box will have a length of 2 feet



Goal Post Specification

- Width: 40 cm
- Length: 30 cm
- Height: 25 cm

➤ Ball Specification

- Tennis ball of diameter about 6.5 cm will be used



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➤ Gameplay

1. Each game will be 3 minutes with 90s second per half.
2. In case of a draw extra time of 30 seconds maybe given or we will go directly to penalties
3. At the start both team's robots will be placed inside their own penalty box. As soon as the whistle blows the bots can attack the ball.
4. If ball is stuck in the same position for too long restarts will be given
5. After a goal is scored Step-1 will be followed again
6. Intentional fighting without the ball will result in fouls
7. Only 2 team members will be allowed inside the arena at all times
8. Penalty Rules-
 - Ball will be placed in the center
 - Robot will be place inside their own box
 - Robot cannot get out of center circle while shooting the ball or else penalty will be cancelled
9. Penalty Shootout Rules-
 - 3 penalties per team.
 - First one team will take all 3 penalties. Then the other team will take
 - If scores are level even after penalties golden goal rule will be used

➤ Points

- 10 points per goal
- *2 point bonus for scoring with a kicking mechanism
- No negative marking system



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➤ **Restrictions**

- Use of jammers will result in disqualification
- Use of weapons is prohibited
- Closed type clamps cannot be used and clamps must have uniform width
- Slopes must have some ground clearance so that arena sticker doesn't get damaged

➤ **Odd number teams**

- In case of odd number of teams qualifying, the two lowest scoring teams will have to play against one another and the winner will go through