



COMED KARES
INNOVATION HUB

Event 1 - Robo Soccer

SPECIFICATIONS

- The robot should fit inside a box of 30cm x 30cm x 40cm.
- The robot should not exceed 4 kg of weight.
- The robot should be wireless.
- The robot should be self-powered with supply not exceeding 12V (on board power supply). Participants cannot draw power from outside.
- Only one participant should control the robot. No player can be exchanged in the match.

Rubrics:

- The exact field dimensions and the field markings at the venue may vary by up to $\pm 10\%$ in each linear dimension.
- The field will have two goals, centered on each of the sides of the playing field. The area of the field will be 8ft x 4ft and the goal inner space is 60cm in width and 60 cm deep. To prevent the robots from entering the goal a cross-bar is attached on top.
- Two teams will be competing against each other. Each team will have two autonomous/manual robots. The total duration of the game is 10 mins which is divided into two halves. Each half is of 5 min of duration with a 2 min of break in between. Teams must report to the referee 10 mins prior to the commencement of the game. Teams can be penalized one goal per minute at the referee's discretion if they are late for the game start. If a team does not report within 5 minutes of the game start, it forfeits the game and the winning team is awarded a 5 – 0 win.
- No one except the referee is allowed inside the game zone. If two opposing robots are tangled with each other, the referee will pause the game and then start it from the starting position.
- The robots must look for the ball from the opponent. It cannot push/ force/ fight with the opponent intentionally without the ball. The referee can interrupt a game in progress if any kind of interference from spectators is suspected.

Prizes and Recognition:

- **Winner:** 5,000 INR + Certificate
 - **Runner-Up:** 3000 INR + Certificate
 - **Best Innovation Award:** Special recognition for the most creative design.
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