Government Engineering College Palanpur

ROBO SOCCER RULES FOR PRAXES-2023

Objective:

Design a wired or wireless manual robot that can play football and compete against other robots in a football match. The robots would com compete for a one-on-one against each other in a knock-out tournament.

Robot Specification:

- The robot must fit within a square the box of the following dimensions initially: Height: 30 cm. Width: 30cm. Length: 30cm
- The total mass of the robot must not exceed 6 kg.
- Robots must be manually controlled. Wired or wireless remotes can be used.
- Teams using wireless robots should use multi-frequency remotes to avoid frequency interference.
- Only one member would be allowed to control the bot during the match.
- The robot should be electrically powered. The power supply must be on-board.
- The potential difference between any two points of the robot should not exceed 24V DC
- Change of battery will not be allowed during the match.
- In the case of wired bots, the wires should remain slack during the fight.
- The wires should remain insulated and all the wires coming out of the machine should be stacked as a single unit.
- Parts that could break or damage the ring or opponent's robot are not allowed.
- Use of pneumatics, hydraulics, inflammable liquids, flame weapons, glue, RF jammers, and electromagnetic systems are strictly prohibited.
- The robots should not hold or grab the ball while moving. Dribbler mechanisms can be used.
- The ball can be dribbled and hit from any part of the robot.
- Each bot must have a mechanism to hit the ball. Hydraulics should not be used for any mechanisms

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