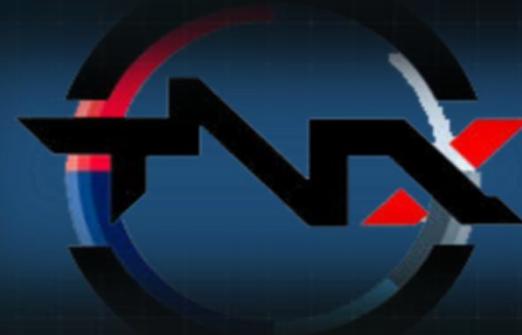




St. Vincent Pallotti College of Engineering & Technology, Nagpur  
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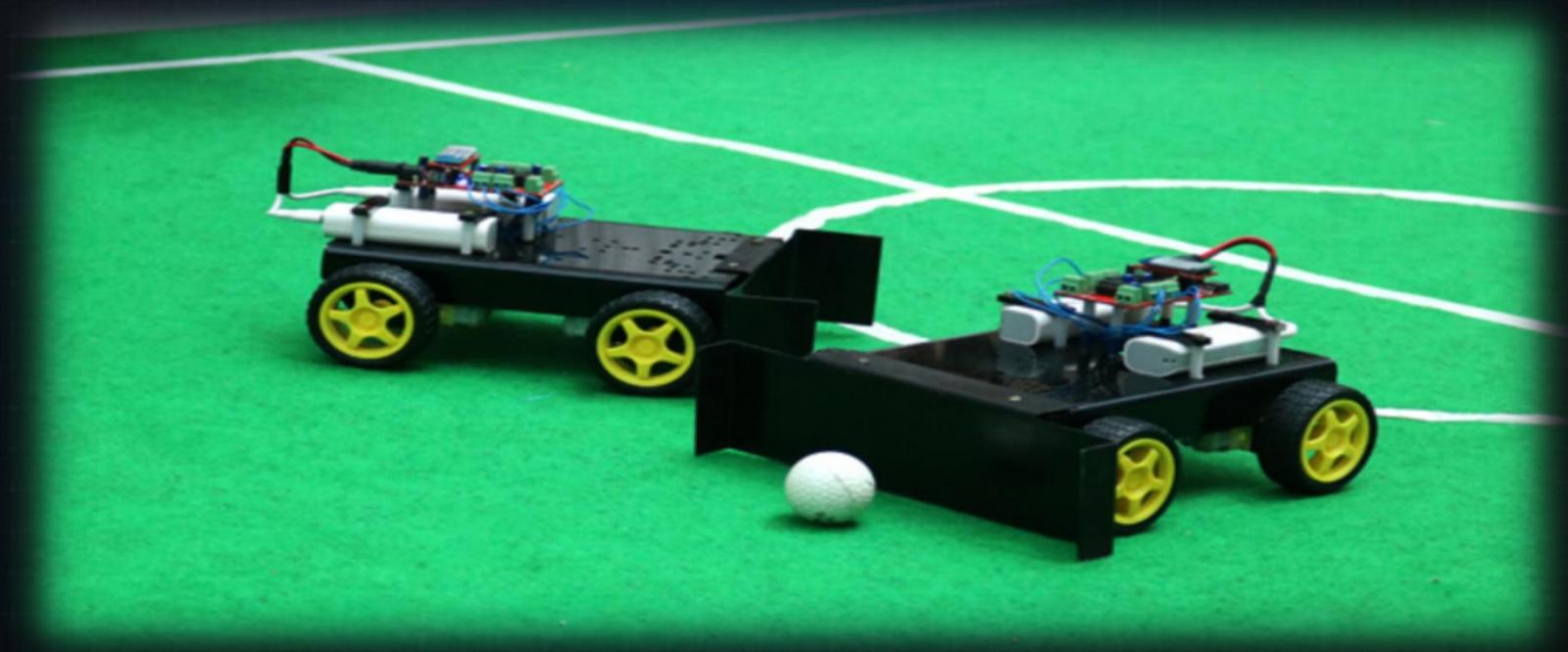


**TECHNEX' 20**



Technex presents

# ROBO-SOCCER. 03





## Game play:-

- At initial stage, total teams will be divided into two groups.
- Among the group, half of the teams will be eliminated in the first round.
  - The process will be continued till two teams remain for the final match.
- Total play time of one match will be 16 minutes (Two halves of 6 minutes with a 4 minute strategy and maintenance break).
- For ease of mobility, two players will stand on either side of the arena in their side of the field.
- Each goal in the either half of the game will fetch +1 point to the team.
- Powerplay of 30 seconds (anytime between 2-5minutes) will be decided by the organisers.

- In the powerplay of each half, every goal scored will fetch +2 point to the team.
- In case of a tie, a GOLDEN GOAL rule will be applied. The team scoring first will win the match.
- The rounds are divided into
  1. Knockout/League matches
  2. Quarter Finals
    - a. Semi Finals
    - b. Finals.
- Disobeying any of the rules mentioned may result to disqualification and/or -2 points.

## Round 1:-

- This round is also called as the qualifying round. In this round the group of two competitors have to play against the soccer match to score the goals. the team having the maximum goal of 15 goal, under time limit will be the winning team.
- From the round 1 we will have the eight qualifying teams .

## Round 2:-

- In this round the qualifying teams will go to play the quarter final first , from which the four teams will be selected by knockout round .
- The selected four teams will again compete with each other for semifinal round. Again the two teams will be selected for the final round .
- The last final round will be played between remaining two teams and the winning team will get the 1st prize and second team will get the 2nd prize.

## General rules:-

- # Each team must have 4 members (max) in their teams.
- # The bots may be wired or wireless. The wireless kit can be of any kind which the participants prefer like RF, Bluetooth, WiFi, etc.,
- # The bots used by the team should not weigh more than 3 kg (0.5 kg tolerance) for wireless and 3.0 kg for wired bots.
- # The matches will be of 16min. (Two halves of 6 minutess and 4 minutes maintenance break)
- # No bot are allowed to incorporate the ball within its body so that it is not playable for the opponent. Neither of the playing bots will be allowed to block each other without the ball in their possesion.
- # Readymade Lego kits and IC engines are not allowed.
- # The penalty of blocking the bots and when the ball falls out of arena will be displayed at the arena of the match.

# The penalty of blocking the bots and when the ball falls out of arena will be displayed at the arena of the match.

# The Ball should not come under the bot.

# The referee's decision will be deemed final.

# Teams may be disqualified on disciplinary grounds.

# No deliberate ramming is allowed. Yellow cards (warning cards) will be given for ramming more than twice. Red cards (disqualification cards) will be given for ramming more than four times. Fair play is expected.

# No weapons, grippers and actuators are allowed.

# The ball can only be dragged or pushed by the bots (kicking mechanism is also allowed. But the bot should strictly follow the dimension norms).

# The game will be started on the whistle by the referee. Teams making mistake during start more than 3 times will be penalized.

# In case of jam up of bots for more than 15 seconds, the bots will have to kick off again at the command of the referee.

# In case of bot break, maximum 15 minutes will be given for repairs. Failing to repair the bot within the time limit will lead to disqualification.

# The organizers reserve the right to change any or all the above rules. Any changes in the rules will be highlighted on the website.

## Robot and power specifications:

# DIMENSIONS OF THE BOT :- Length 33 cm (length includes total length of bot + pincers/non mechanical grippers) & Width 30 cm. Distance between pincers should be maximum 20 cm and length should not be more than 8 cm. (+2 cm tolerance in length of overall bot)

# Power supply of 240 volts will be provided for wired bots (teams will have to step down the voltage to 12 V using suitable apparatus of their own, or bring a 12 V regulated DC adapter/12V rechargeable batteries).

# The motors used should not be more than 300 rpm. (NOTE : THE SPEED IS INVERSELY PROPORTIONAL TO THE TORQUE)

# The voltage and current rating of the power supply should be 12v .

# The wireless bots should have its own power supply.

# Wireless bots can replace their battery only one time.

# The voltage at any point on the electrical connections should not exceed 12 V(+1V).

## **Registration Details:-**

Event registration charges - 600/- individual or group of max 4 member

Workshop Charges - 3400/- individual or group of max. 4 member

## **Prize money:-**

Cash prize worth Rs.50,000/-

## **contact details:-**

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