**MOBILE CONTROLLED ROBOT RULES**

**Name of Event**: DTMF(Dual Tone Multi Frequency) Controlled Robot.

**Robots per Team**: one

**Maximum Team limit:** 4 Members

**Time Alloted Per Team In Each Round**: 3 Minutes

**Robot Dimensions**: W:25cm X L:25cm X H:15cm(max)

**Arena Specifications:**

1.The arena is spread on a concrete floor( 5mX5m ).

2.The Track width varies from 50cm-70cm and is closed side by walls.

3.The course of the track may have (U-Turns,90-Degree turns,Acute and Obtuse Angles).

4.The course of the track will also have obstacles like speed brakers etc.

**Robot Specifications:**

1.The Robot must be controlled by only one participant of a team.

2.The control of the bot can be done by numeric keypad in the mobile phone or an app in mobile.

**3.Communication between the robot and the participant will be through DTMF. It cannot be**

**IR beams, GSM module, Bluetooth module and radio services.**

4.On board power supply should not exceed 12V DC between any two points in the Robot.

5.No AC power will be guaranteed to the participants, even to charge the batteries. Backup

must be held by the participants themselves.

6.Robot can be three or four wheeled should not exceed four wheels.

**Judging Criteria:**

Judging criteria will be explained on the day of event.Decision of judges is final and arguments will not be entertained.

**LINE FOLLOWER ROBOT RULES**

**Name of Event**: LINE FOLLOWER ROBOT

**Robots per Team**: one

**Maximum Team limit:** 4 Members

**Time Allotted Per Team In Each Round**: 3 Minutes

**Robot Dimensions**: W:25 cmXL:25 cmXH:7 cm

**Black Line Width:2-3** cms

**Arena Specifications:**

1.The arena is a flex print consisting of a black line on a white background.

2.The course of the track may have turns(acute angles, obtuse angles) without crossovers

3.Check points will be provided at regular intervals.

**Rules And Regulations:**

1.The control of the robot must be autonomous.

2.The robot to complete the course in the shortest period of time while accurately tracking the course line from start to finish wins.

3**.Second Attempt:** Any robot that loses the line course and fails to retain the track it will be allowed a reattempt. The robot must start the course from the preceding check points placed in middle of the course.

4.On board power supply should not exceed 12V DC between any two points in the Robot.

5.No AC power will be guaranteed to the participants, even to charge the batteries. Backup

must be held by the participants themselves.

6.During the competition, lights will not be switched off.

**Judging Criteria:**

Judging criteria will be explained on the day of event. Decision of judges is final and arguments will not be entertained.

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