

# PERPETUAL MOTION MACHINE

## ABOUT

This event includes the design of kind of machine that continues its motion without any external input of energy. Despite of being hypothetical concept of machine design many researches have been carried out on this machine. However, if one can develop these kinds of machine it can be a infinite source of mechanical or electrical energy.

We are inviting such intelligence who can modify the laws of thermodynamics and can implement new designs to generate free energy.

Machines will be demonstrated to panel of judges and per rubrics winner of the event will be declared.

## DETAILS

Date: 13<sup>th</sup> July 2018

Time: 03:00pm to 06:00pm.

Fees of Event: -

For ISTE Member: 30/- per head.

For Non-ISTE Member: 50/- per head.

Location: SF-27.

## RULES

- Team can have a maximum number of 4 members.
- Team members can be from different colleges.
- A team is allowed to play with only one robot.
- In case the robot moves out of the arena, the robot will be placed at the previous checkpoint.
- Touching the robot during the game will lead to negative points.
- In case of wired robot, the wire should remain slack throughout the race. It should not disturb the arena or the participants. If so then the team will be disqualified.
- Unfair game may lead to disqualification of the team.
- The robot should not damage the field. Damaging/harming the arena may lead to disqualification.
- Decision of the Event Organizers shall be treated as final.

**TechManjari 2018**

Survey No.30, Sidsar Road,  
Near Iscon Eleven, Bhavnagar,  
Gujarat 364001

- The game play consists of two rounds (a qualifying round and a final round)
- Prelims- The participating teams will drive their robot individually in a track for preliminary round.
- The time taken to complete the circuit will be taken as your qualifying time.
- Each time the bot touches either one of the boundary, there will be a penalty of +2 seconds.
- The other penalties and scoring points will be informed on the spot.
- Finals- Based on the qualifying time of each team, top 6 teams will make to the finals.
- There is no penalty for the final round.
- The three teams that finish the race quickly will be declared as winners.
- Rules are subject to change by event coordinator.

## **BOT SPECIFICATIONS:**

- The ROBOT can have a maximum dimension of 250 x 250 x 200(l x b x h) (all in mm) with a tolerance of 5%.
- The maximum potential difference between any two points should be 12 volts DC.
- Robot must have power supply on board. There will be no provision of external power supply.
- The maximum weight is 5kg.
- The robot can be controlled by wired/wireless mechanisms.
- It should be controlled by a single person at a time.
- If the robot is controlled by wireless mechanisms, the robot must have a frequency remote control circuit which can avoid frequency interference with other teams.
- It must have only a single transmitting device.

## **FIELD SPECIFICATIONS:**

- The track length and the number of laps will be revealed on the spot.

## CONTACTS

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