



Walchand College of Engineering, Sangli
(An Autonomous Institute)



VISION 2016

Presents

ROBOHUSTLE

... A Robo Race Competition

INTRODUCTION

‘Simple but complicated’, ‘easy but very difficult to handle’, ‘slower but fast to your eyes’.

Let’s start with your ideas, ignite your minds and be ready for a reformed marathon of ‘bots’...

EVENT

Problem statement: To suffice **‘THE NEED FOR SPEED’**

Design a robot so as to complete the track in minimum time with minimum number of handlings.

Round 1: (short listing round)

Track will consist of a parallel path upto a certain distance, two participating teams have to compete against each other. Robots are allowed to pass through a series of All- terrain tracks. Tracks will consist of obstacles like continuous slope, road banking, steps etc.

Round 2:

This round will be a surprise round. It will be a challenging track with fresh impetus.

ROBOT SPECIFICATIONS

1. Size: $30*30*30(l*b*h)$ cm³
2. Maximum weight: 3kg

Rules:

1. Every team will be provided with single variable 24V DC (2Amps) & 230 AC Power Supply.
2. Robots will be strictly tested for dimensions & safety.
3. Length of Wire of your machine should be greater than 6m.
4. Participants should not touch or step on the track.
5. Team members are not permitted to touch either their machines or those of their opponents once the race begins (unless there is a need to lift the machine). The penalty for doing so is disqualification.

6. Teams are not allowed to purposefully damage the machine of the opponent's team. If found doing so, the concerned team will be disqualified.
7. The machines are not allowed to leave any loose parts on any part of the arena.
8. If the machine is found unsafe to run on the track, that team will be disqualified from the race. The coordinators' decision will be final and binding in this respect. No damage to the track will be tolerated and if found guilty, the team will be disqualified.
9. Any machine disintegrating during the race will be disqualified. The vehicle must remain intact throughout the race.
10. The judges' and organiser's decisions shall be treated as final and binding on all. The organisers reserve the rights to change any or all of the above rules as they deem fit.
11. If an operator touches the robot/machine during run, this will be considered as a hand-touch & organiser's decisions shall be treated as final.
12. The short listing from the first round will be considered on points & time basis.
13. The team who gets maximum points will be qualified.

General Rules:

- Students must bring their valid college identity cards while coming to the event.
- Any team that is not present at the specified time will be disqualified immediately.
- Rules may be changed without prior intimation. Participants are requested to check the website regularly for updates.
- Same robot can be use for the competition but operator must be different.

NOTE: Major changes will be notified on the web-site.

Certification Policy:

- All the students will be given participation certificate.
- Top two teams will be awarded the Certificate of Excellence.

Team Details:

- A team can have a maximum of 2 members.
- Team members can be from different colleges or years.

Entry fees: Rs. 100/- per team.

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