



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING AND TECHNOLOGY

Gavsi Manapur, Wardha Road, Nagpur - 441108



TECHNEX'19



OVERDRIVE 3.0



“RACE WITH THE BEST OR RUN WITH THE REST”



Event Description :-

"More speed, more power with minimum time and perfection"

Design a manually controlled ROBOT that has capacity to cover maximum distance in shortest possible time; challenging the hurdles and become one of the best opponents.



1st Round :-

- Two bots will compete at the same time.
- Winner will qualify for round 2.
- Timing of non qualifying bots will be taken, in case of exceptional conditions.



2nd Round:-

- In the second round the bot has to cross the arena completely within the given time limit. The bots completing the arena in minimum time will qualify for the next round.
- The bot will also have to earn maximum points while covering the arena.
- All the traps of the tracks will be **STATIONARY**.
- 10% teams will qualify for the **Final Round**.



FINAL ROUND:-

- In the final round the bot will again have to complete the track, but this time the track will contain **STATIONARY** as well as **NON STATIONARY** hurdles.
- The bot has to complete the track with maximum obstacles cleared within the given time limit to win the competition.



ROBOT & POWER SPECIFICATIONS:-

- The maximum dimension of the robot can be 35x35cm (lxb).
- The robot may be wired or wireless.
- The length of the wire (for wired bots) should be long enough to cover the whole track and wire should remain slack during the complete run.
- Max weight must not exceed 4kg.
- The power supply will be provided maximum up to 12 volt.
- Readymade toy cars are not allowed.
- The machine must be powered electrically only. Use of IC engine is not allowed.
- Batteries must be sealed, immobilized electrolyte type (gel cell, lithium, NiCad, or dry cells).
- The electric voltage anywhere in the machine should not be more than 12V DC at any point of time.



General rules:-

- Each team can have maximum four (4) members. Students from different institutes can form a team.
- Each member of the team must contain the identity card of his/her respected institute.
- Different teams will not be allowed to compete with the same bot.
- The robot should not damage the arena.
- Unethical behavior could lead to disqualification. Faculty coordinators have all the rights to take final decision for any matter during the event.
- Judge's decision will be considered final.
- In first round randomly any two teams will compete with each other. Only one hand touch is allowed. If more than one then team will be disqualified.



Rules Continued...

- If there is any odd number of team in the first round then they'll compete with the team not qualified for second round holding minimum time in first round.
- In second and third round seven hand touches are allowed with penalty of 10 points for each hand touch, penalty time will be added further to the overall time required by Robot for completion of specified round.
- Your robot must be ready when call is made for your team.
- Decision about your robot will be taken by the organizers.
- Rules may subject to change. Both wired and wireless bot are allowed.



Registration Details:

- For direct competition/Group: Rs.600/-
(4 member per team)



Contact Details:

Event Co-ordinators:-

Vaibhav Bhasme :- 9834458901

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