TECHNICAL EVENTS
ROBOMANIA- 2018
GULZAR GROUP OF INSTITUTES KHANNA
LUDHIANA

Faculty Coordinators-
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4G ROBO

Problem statement:

Use your creative mind to create a mobile controlled wireless machine that can cross over an artificial path passing through some hurdles and obstacles.

Team specifications:

Students from different colleges can participate in this event. The team can be formed by **Maximum three students**. The team registration must be done with a unique team name.

- Participants must carry their ID cards **(Belongings to current institute)** at the time of reporting.
- **Professionals are not qualified for participation.**
- More than one team from a particular institute can also perform.

Machine specifications:

- The machine should fit in a **30cm x 25cm x 15cm (Length x Width x Hight)** size of dimension box.
- No limitation of weight.
- The machine must be wireless operated.
- Readymade base of machine will not be allowed **(Readymade wheels, motor, battery, switch, wires can be used).**
- The potential difference between any two point of circuit should not exceed then 12v.

Arena specifications:

- The arena will be on wood.
- Event will be in open ground.
- There would be some obstacles like marbles, grass, sand, glass and some mud in alternative places of arena.
- There would be some incline slant and decline slant in arena.

Rules:

- There should be two round, first round will be Preliminary ,and those who qualify the preliminary round, they will be proceed in the final round.
- The machine should cover complete path of the arena, no shortcut will be allowed.
- The machine should start to run from start point of arena.
- The machine should not damage the arena else team will be disqualified.
- Machine should not leave the path; otherwise penalty will be there.

- If the two wheels of machine cross the boundaries of track, it will consider as a penalty

Note – in some critical conditions the organizer can add/change the rule on the spot.

Judging criteria -

- The judgment is made on the basis of time taken by the machines.
- The machine who completes the final round with lesser time will be the winner.
- The judgment will be consider as:-
  - **Total point = Total time taken (in sec.) + no. of penalties (in that time duration).**

Note

- All decisions of a referee and judges are final.
- All the criteria will be checked before the match. If any ROBOT fails to match the criteria shall be disqualified.

Student Co-ordinator

Rakesh Kumar

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