

PERCEPTION

Dirt Race Problem Statement

Objective:

To traverse the complete arena in lowest possible time.

There will be 3 rounds.

Round 1:

This is the preliminary round for qualification. Top 16 teams will be selected for next round. Each team will be given at-most 5mins to cover the arena. **No** extra obstruction other than the path itself will be present in this round.

Round 2:

In this round certain obstructions like jumping ramps or mud pool will be introduced. Four teams will race together in this round. Winners of this rounds shall be given chance to participate in next round.

Round 3:

This is final round. All winners of round two shall race together in this round.

Rules:

1. Maximum allowed members in a team is two.
2. Bots must have on board power supply.
3. Participants are expected to bring their own remote controls, however in case of emergency the **organisers will provide** simple 4 binary channel remote control (Rx-Tx A-434Mhz) .
4. In round 2 and 3, bots are allowed to block the path of different bots. Any form of physical contact between bots of two different teams is allowed as long as it is unintentional or the other team don't resist.

5. In round 2 and, the qualifying time will be used to determine the position of bot near the start point.

Bot specifications:

1. Maximum size allowed is 30cm x 30cm x 30cm
2. Power supply for any component must not be greater than 24v
3. Participants should bring at least two remote controls with variable address sets.

Prizes worth Rs 4000 will given to winner and 1000 will be given to Runner up. Participation certificates will be given to all participants at end of event.

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