K.L.E. Society's
K. L. E. INSTITUTE OF TECHNOLOGY, HUBBALLI-27
(AICTE approved, Affiliated to VTU and ISO 9001:2015 Certified Institute)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
(NBA Accredited Program)
Opposite Airport, Gokul, Hubballi-580 027. Dist.: Dharwad, Karnataka, India. Phone: 0836-2232 664, 681 Fax: 0836-2330688, E-mail: hod_ece@kleit.ac.in,website: www.kleit.ac.in

ROBO RUSH

ROBOT SPECIFICATIONS:

1) The maximum dimension of the robot can be **30 cm x 30cm x25 cm (l x b x h).**
2) The robot may be wired or wireless.
3) 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.
4) The participants will be provided with **220 Volts, 50Hz** standard AC supply. Participants will have to themselves arrange for adaptor or batteries.
5) The electric voltage anywhere in the machine should not be more then **12.6V DC** at any point of time.
6) Weight of the bot should not be more than 3Kg ±**0.5Kg**. If more than the mentioned weight, the team will lead to disqualify.
7) The bots should only be constructed with ESC, Arduino (via Bluetooth), ESP (any variant). **No readymade RC car circuits** will not be allowed or entertained which will lead to disqualification of the team. Teams can use controllers with variable frequency up to 2.5 GHz.

Round 1: Speed Sprint

- Participants compete in a 1v1 format on a mirrored track.
- Each bot races independently, aiming to finish in the shortest time while overcoming obstacles.
- The team that completes the track first advances to the next round.
- Match schedules will be shared before the event starts.
- No timeouts are allowed for any reason.
- Teams failing to arrive when called will be disqualified and the opponent will be declared as winner.

Round 2: Endurance Challenge

- All qualifying bots from the previous round will compete individually.
- This round test each bot's power, speed, and durability.
- The track includes sharp turns and various obstacles, such as rotating disks, oil pits, elevators, uneven surfaces, and more, which will be revealed during the event.
- Each bot's time will be recorded, and the team with the shortest time will win the competition.

GENERAL RULES:

*Co–ordination committee reserves the right to add or update any rule.

1) Robot should be as per the given specifications.

2) No readymade bots are allowed, this will lead to disqualification.

3) Participants will have to themselves arrange for adaptor or batteries.

4) Modifying the bot ones the event starts will not be allowed and will lead to disqualification

5)Each team can have maximum4 (four) members and minimum of 2(two).

6)Once the event starts, there will be no exchange of bots allowed which will lead the team to disqualification.

7)Each member of the team must contain the identity card of his/her respective institute.

8)The robot should not damage the arena.

9)No test practice will be allowed on the arena.

10)Unethical behavior could lead to disqualification.

11)Judge's decision will be considered final.

12)Wires should remain slack during the course of the run. Pulling the wire to aid the robot in traversing may lead to disqualification.

Join WhatsApp group https://chat.whatsapp.com/BSD9BujoQ1I1h32xmFfia6

STUDENT COORDINATORS:

Abhishek R (9113597421)

Kiran B Kulkarni (8310170506)

Deepak R Kalyani (6360314003)

Chanabasappa N (9986242784)

FACULTYCOORDINATORS:

1) Mr. Santosh S.H

2) Miss. Supriya P