

LINE FOLLOWER

ABOUT THE EVENT

The Line Follower Challenge is all set to test your autonomous robot building skills. The task at hand is to build a basic LFR (line following robot) which can follow lines through sharp edges, curves and gaps, and reach the finish line in the shortest possible time.

REGISTRATION FEE

Each member of the team will have to pay a nominal registration fee of Rs.100 +GST=Rs. 118/- .

PRIZE

ZONAL LEVEL	STATE LEVEL
1st Prize - INR 10,000 2nd Prize - INR 7,000 3rd Prize - INR 5,000	1st Prize - INR 25,000 2nd Prize - INR 15,000 3rd Prize - INR 10,000

TEAM REQUIREMENTS:

- All the team members must be full-time students at an accredited University/College/School.
- There are no restrictions on the number of teams from the same Institute.
- Individual participation is allowed
- A team can have a maximum of 5 participants
- Each participant may only be a part of one team.

ROBOT SPECIFICATIONS

- The participating bots must be wireless and autonomous. It can be circular / Rectangular in style. BOT must fit inside a box of 25 centimetres length, 25 centimetres wide and 25 centimetres height at any point in time.
- Maximum weight should not be more than 5 Kgs including battery, however, a tolerance of 5% in weight is acceptable. Participants need to ensure:
- Batteries must be sealed, immobilised 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 in time for each robot.
- Infrared light-reflecting materials must not be used on the outside. If robots are painted, they must be painted matte. Minor parts that reflect infrared light could be

used only if other robots are not affected. Robots must not produce magnetic interference for other robots on the field.

- If a team claims that their robot is affected by the other team's robot in any way they must show proof/evidence of the interference. Any interference must be confirmed by a Referee if a claim is placed by the other team.
- The robot must be autonomous.
- Robots must be constructed and programmed in a way that their movement is not limited to only one direction and must move in all directions.
- No wireless communication between bot and operator will be allowed. Bluetooth, RF Module, etc not allowed on BOT.
- Any robotic parts/building material can be used until the robot meets the above specifications and if the design and construction are primarily the original work of the team as ready-made robots are not allowed to compete in the competition.

CHALLENGE

Level	Description
Zonal Challenge	
Finale Challenge	

STAGES

The competition will be conducted in 2 rounds:

1. Zonal Round

- Zonal round will be held in the respective regions of the comedkares centres - Kalaburagi, Belgaum, Mysore, Mangalore and Bangalore.
- Top 3 teams will be selected for the Finale.

2. Finale

- The State Level finale will be held in Bangalore.
- The top 3 teams from all the regions - Kalaburagi, Belgaum, Mysore, Mangalore and Bangalore will compete in the finale.
- Top 3 teams will be selected as the winners of the competition.

CONTACT DETAILS:

For workshop and any queries regarding the competition, please contact the competition coordinator for more details.



Name:

Contact: