

# R-Tist

Robotics Club NIT Jalandhar

## AmazeUs

### Description :-

In Amaze US the team of participants has to Build a autonomous **line follower** robot with RGB sensor which should also be able to take 90 degree turn on detection of particular colour .

Bot should also display the colour detected on LCD display screen.

AmazeUs will contain only **one round** .

### General Rules :-

- **Follow Black Strip(Line Follower)**
- **RGB small strips will be there on the path.**
- **Detect the colour and make decision accordingly.**
- **Blue: Start and travel with half speed.**
- **Green: Turn left( $90^0$ ) [travel with full speed]**
- **Red : Stop for few seconds and then turn right.**
- **Then Go straight.**
- **There will be a gap of 10-15 cm between the red strip and black strip.**

## Specification's:-

- **Bot Specification** : 30cm x 25 cm (maximum)
- **Track Specifications** : 3m x 4cm
- Width of black line to be followed : 4 cm

## Judgement Criteria :-

- Bot must follow the line.
- Take turn when detects colors.
- Priority will be given to the bot who will count the details correctly time correctly.
- If the bots in competition completes all above criteria then time of completion will be taken in consideration.
- In Situations of any Dispute/Tie the final decision of the organizers will be valid .