TECHTRIX '17
INTO THE NEXT DIMENSION

Track-O-Bot

General Rules

- Round 1 track will be made public two days before the event.
- Round 2 track will be made public only after the successful completion of round 1 and publication of 2nd round qualifiers.
- No two teams should participate with the same robot.
- Computers, programmers and software need to be arranged by the team themselves. We will provide two/three pin sockets with proper ground connection.
- The competition is only for autonomous robots, no manual robots will be entertained.
- The robots should be able to process data on-board. No remotely kept computer should control the robots.
- The robots have to be designed by the team itself.
- Usage of commercially available modules such as sensors, development boards, etc. are allowed; but it is forbidden to use complete robotic-system which is sold readymade for the purpose of this competitions such as Lego kits.
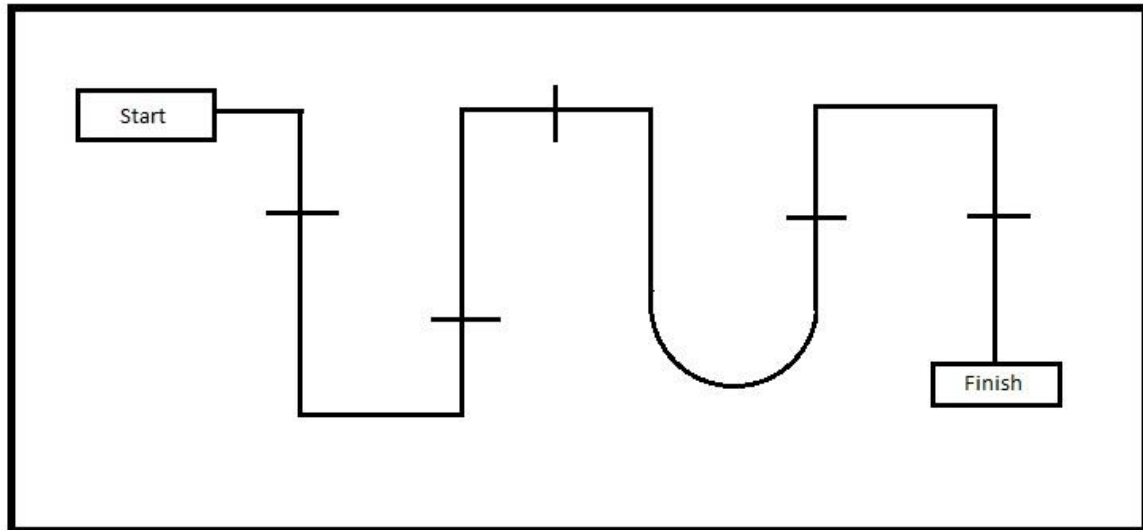
Final Point Calculation

- Time taken to complete track will be only awarded to participants who complete the track. Those who fail to complete the entire track or quit mid-way will not be awarded any points and loses their chance to go to next levels.
- Time taken to complete track= T
- Equivalent point= T X 10
- Point scored after crossing the section= P
- Final Score= P-(T X 10)

Robot Specification

- The robot should fit in a box of dimension 30cm x 30cm
- No limitations on height.
- The maximum weight should not be more than 3 kg.
- The robot can be powered electrically only (internal or external).
- The electric voltage between 2 points should not be more than 20V DC at any point of time in the run.

1st Round

Track Description

- Track will have multiple sections.
- There will be a checkpoint after each section.
- A bot needs to cross the section and reach the checkpoint to complete the section.
- A checkpoint cross by the bot should be denoted by a buzzer or blinking of led by the bot itself on reaching the checkpoint.
- **Teams will be awarded 30 points for each section. (30*3=90)**
- **10 points will be awarded for start and stop. [5+5=10]**
- Total of 100 points to be obtained in 1st round.