

ROBOTASK

The objective for your robot is to travel through the space elements such as earth and mars planet. Face the obstacles as aliens, different surfaces and many more..

Entry Fees: Rs 200/- per team

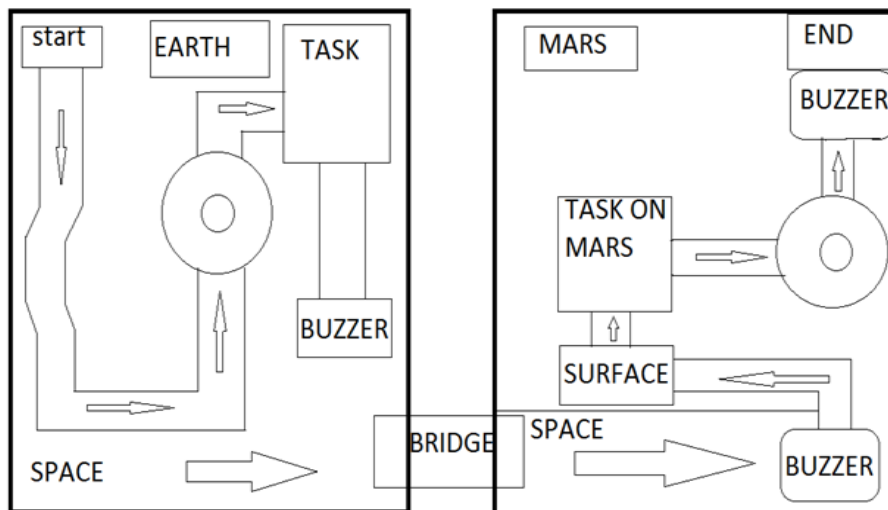
Participants per Team: 2-4

Number of Levels: 2-3

Rules:

Arenas:

There are two arenas, Earth and the Mars. Each arena shall consist of a 4' x 8' sheet of unfinished plywood, with 1.5" x 3.5" walls on the perimeter. The robot is required to attempt both surfaces (the earth stage first). You will deploy your robot in the launch area, a **30 x 30 cm** square in the corner of the arena, and proceed to its destination. The actual arena layout will not be announced until Game day, but could look something like this:



EARTH.

Earth can accomodate the type of elements and obstacles from which we are quite familier such as buildings,grass,rivers and all other things which we see on planet.

MARS:

It will consist of mars surface and obstacles from its surface such as stones,rocks,mountains,holes etc

Mission:

You will be given 3-4 minutes to complete each stage of mission. Once your bot enters destination area your mission ends.

LEVEL 1 – The Earth

The bot starts from this surface where it has to move through the ramp and perform a task of pushing an obstacle into the desired location and then pressing the buzzer.This enables the bot to go to space only once the bot has pressed the buzzer and performed its given task.

LEVEL 2 – Mission MARS

- Once your robot has passed with its earth stage then it enters space after pressing the buzzer.From where it enters mars planet where it has to move through obstacles and perform the required tasks to reach the destination.
- Once you press final buzzer and reach the destination your mission ends.
- TIME TAKEN AND POINTS OBTAINED BY THE BOT TO REACH THE DESTINATION WOULD BE CONSIDERED FOR THE RESULT

- After the earthstage, you will have 3 minutes to prepare your robot for the next stage. You may reprogram or reconfigure your robot for the next stage.

Robot Specifications.

Your robot must fit entirely inside the launch area (30 x 30 cm) at the start of the match, but may expand once the match begins. The maximum weight of the robot should not exceed **5kgs**. At any point on the robot, the voltage and current should not exceed 20 Volts and 5 Amperes respectively. The robot must be fully autonomous or wired. Your robot must be safe, and must comply with the “General Rules for All Robots”

General Rules for ALL Robots

Robots must be safe. This means no flammable liquids, no compressed gases, no internal combustion engines, no noxious fumes, no shooting or whacking parts, and nothing that is unsafe. The decision of the officials is final. A safety inspection also must be passed, which involves evaluation for sharp edges and wheel treads that can catch a finger, etc. Officials have final say in regards to safety. A robot must not expel any liquid, powder, or gas. A robot must not attempt to damage or injure any other robot, competition arenas, or people. For example, a robot must not include a flame thrower device, or throwing device. Anyone who brings an unsafe robot may be rejected from the competition. The decision of the judges and officials is final.

Scoring Points.

- 3000 points divided by the seconds taken to arrive the destination point.
- 40 points for completing each task successfully.

- 10 points for completing only the half part of the task.
- 50 points for reaching destination in time.
- 40 points for completing a task in level 2 successfully.

Penalties

- -20 points for touching buildings/structures in arena.
- -20 for each hand touch.
- -15 for performing wrong task.
- -15 for crossing any arena boundaries.

Prize Worth.

1st Prize: Rs 4000/-
2nd Prize: Rs 2500/-

Event Heads : Siddhant Puri : 9561518458

NOTE: There can be minor changes in arena and tasks given.
But basic theme of arena will remain the same.