

Patch It Up

Science Club

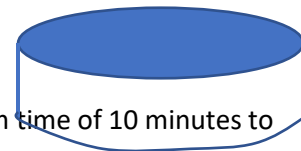
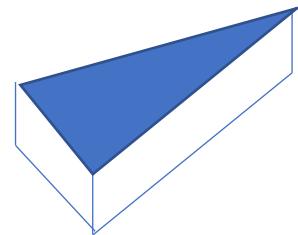
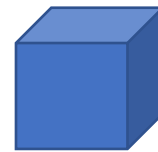
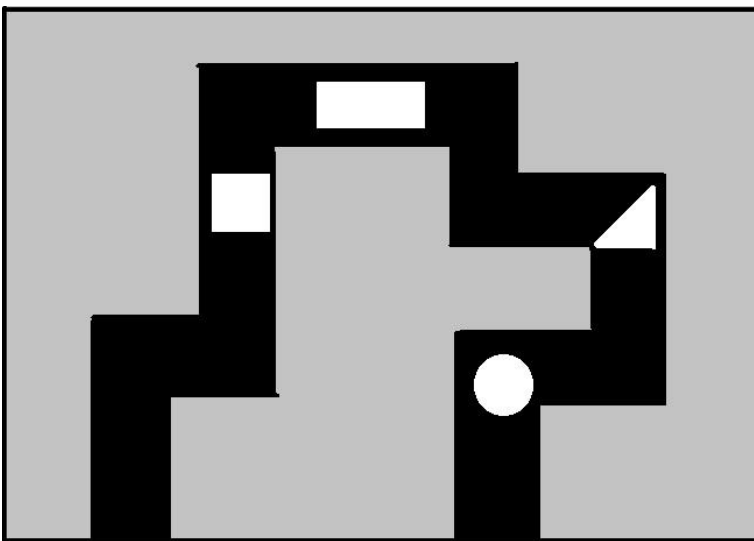
NIMBLE'17

1. INTRODUCTION :

It is an event where you can showcase your skills of basic sciences and can have fun in solving simple task of collection and dispatching of blocks like in construction activities.

2. PROBLEM STATEMENT :

The task is to build a remote controlled vehicle, which will collect pieces from one place & put it into corresponding holes present in the track. Complete the entire track as soon as possible.



START

FINISH

3. EVENT RULES & SPECIFICATIONS:

3.1. [Event Structure](#)

There will be one vehicle per team, and team will be given maximum time of 10 minutes to complete the track.

3.2. [Team Size](#)

A team should consist of at least 2 members and should not exceed more than 5 members. Only one team member can control one robot. Participants are not allowed to be part of more than one team in this competition.

[3.3 Arena](#)

A rough idea of the arena and the blocks to be patched up is shown in the figure shown above. However the arena during the competition might be different from above figure.

[3.4. Rules](#)

General Rules:

1. The vehicle will get input signals wired from outside the arena.
2. The vehicle will only be allowed to move on the track. To collect other pieces vehicle has to come out from the starting point.
3. Only one team member can control one vehicle throughout the event.
4. If any team is found harming the arena, the team will be disqualified on the spot.
5. NIMBLE team will not be responsible for any damage done to the robot in the arena.
6. No team will be given more than allotted time.
7. In case of any discrepancies, the decision of the event coordinators will be final.

[3.5. Judging](#)

1. The team finishing the task in minimum time comes first.

[3.6. Specifications](#)

1. The vehicle must easily fit into a box of 25cm x 25cm x 30cm (lxbxh).
2. Maximum voltage in the circuit should not exceed 12V at any time.
3. The RPM of motors used to make the robots should not exceed 300.

All decisions taken by the organizing team will be deemed as final, and no more changes will be encouraged, thus holding the full authority to change any of the above rules as per circumstances.

Sarthak Desai

9974402874

Desai.1@iitj.ac.in

Brajraj Nagar

7792880811

nagar.1@iitj.ac.in