



TRAJECTORY

EVENT FORMAT:

The event consists of **Three** rounds:

Round 1: Qualifiers (Time Limit: 5 min)

- In this round, each team will try to shoot balls from 5 fixed locations of the arena. Single attempt will be allowed from each location. The round lasts for 5 minutes.
- The bot should grab the ball and throw across the barrier to the other side.
- The objective of the round is to throw maximum number of balls in the given time.
- The teams will be ranked according to the gross points and the best will move on to next round.

Round 2: Basket (Time Limit: 10 min)

- There will be five balls placed at random fixed position across the arena.
- The bot should grab the ball and throw it in the basket located at the center of the arena, from that position.
- The objective of the round is to throw maximum number of balls into the basket in the given time.
- And the Best will be qualified for the next round.

Round 3: Shoot Me if you can (Time Limit: 10 min)



- Here, also the five balls will be placed at random fixed position across the arena.
- The bot should grab the ball and shoot it from that position in to the Linearly moving Basket.
- The objective is to shoot as many balls as possible in the moving basket.
- The team with the maximum no. of balls in the basket, in given time will be declared as the winner of the competition.

JUDGING CRITERIA:

- The bot with maximum number of balls in the Basket (for Round2 and Round3) and Across the Barrier (for Round1) will be considered as winner.
- **The Time recorded for the total number of balls thrown in the basket.**

i.e. the team with the maximum number balls in the minimum time will be given the first preference.

SPECIFICATIONS:

Ball specifications:

- Here the tennis ball will be used.
- Maximum weight will be 70g.
- Maximum Outer Diameter 7cm.



Team specifications:

- Each team can consist of maximum five members.
- Each team member should be a student of an Authorized college. Students from different colleges can also form a team.

Robot specifications:

- Dimension of Robot should be within the limit: 30cm x 30cm x 30cm.
- The robot can be manual or autonomous controlled and can be wired or wireless. In case of wireless bots, their operating frequency should be adjustable, so that no two robots in any case have same operating frequency. This matter should be checked and dealt with, prior to the match.
- Potential between any two points on the robot should not exceed 12V.

Arena specifications:

- Dimension of arena: 2.5m*2.5m
- Goal post maximum height 70cm.
- Maximum diameter of basket for second and third round is 70cm.



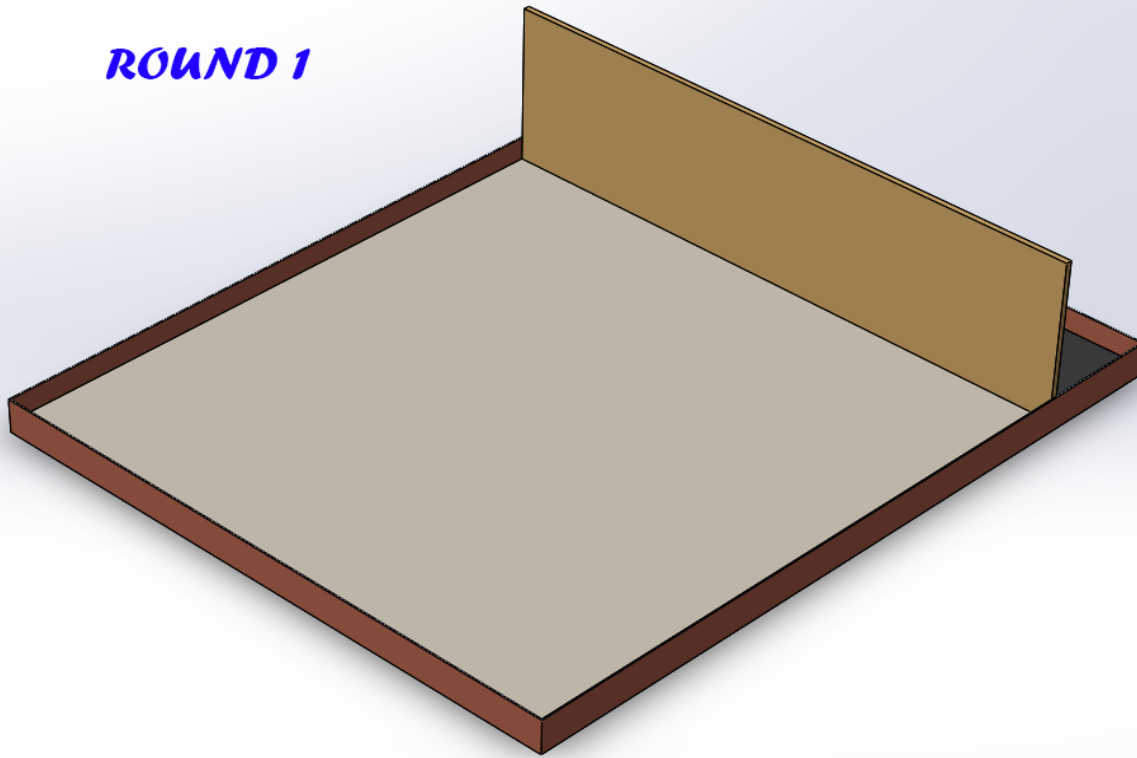
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WISSENAIRE

3rd - 5th February 2017

ROUND 1





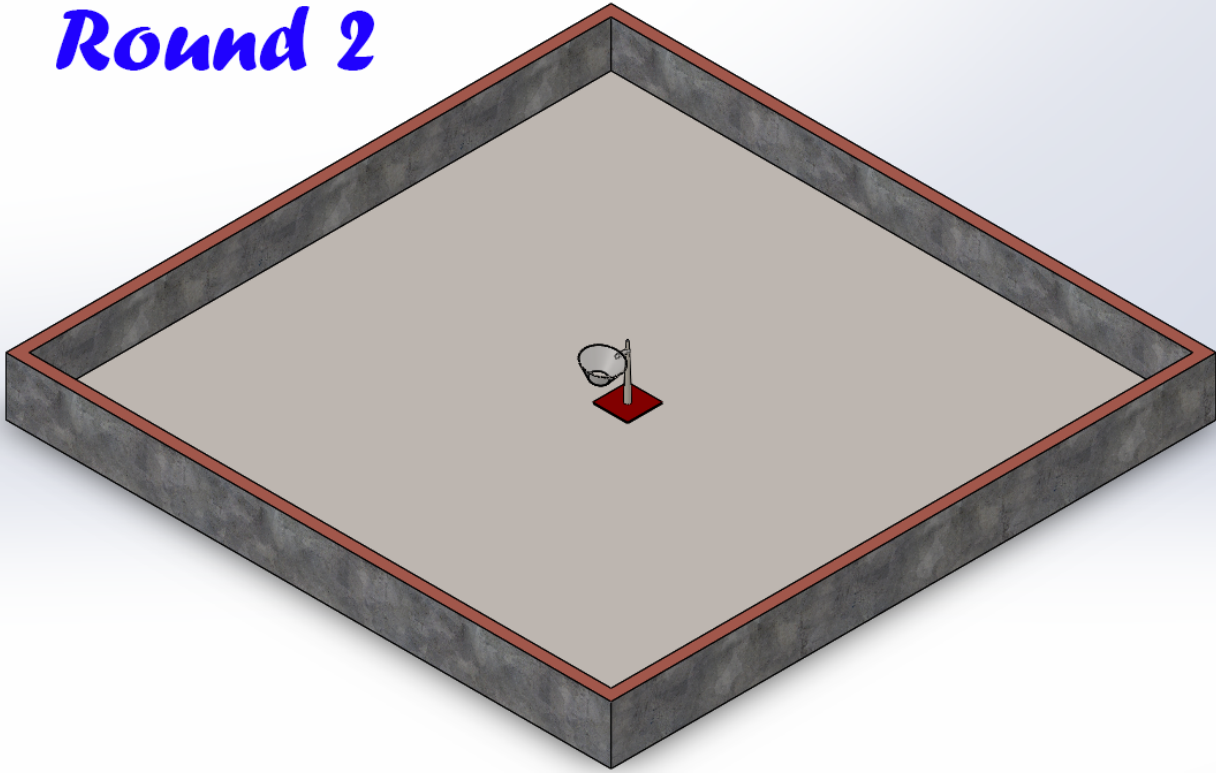
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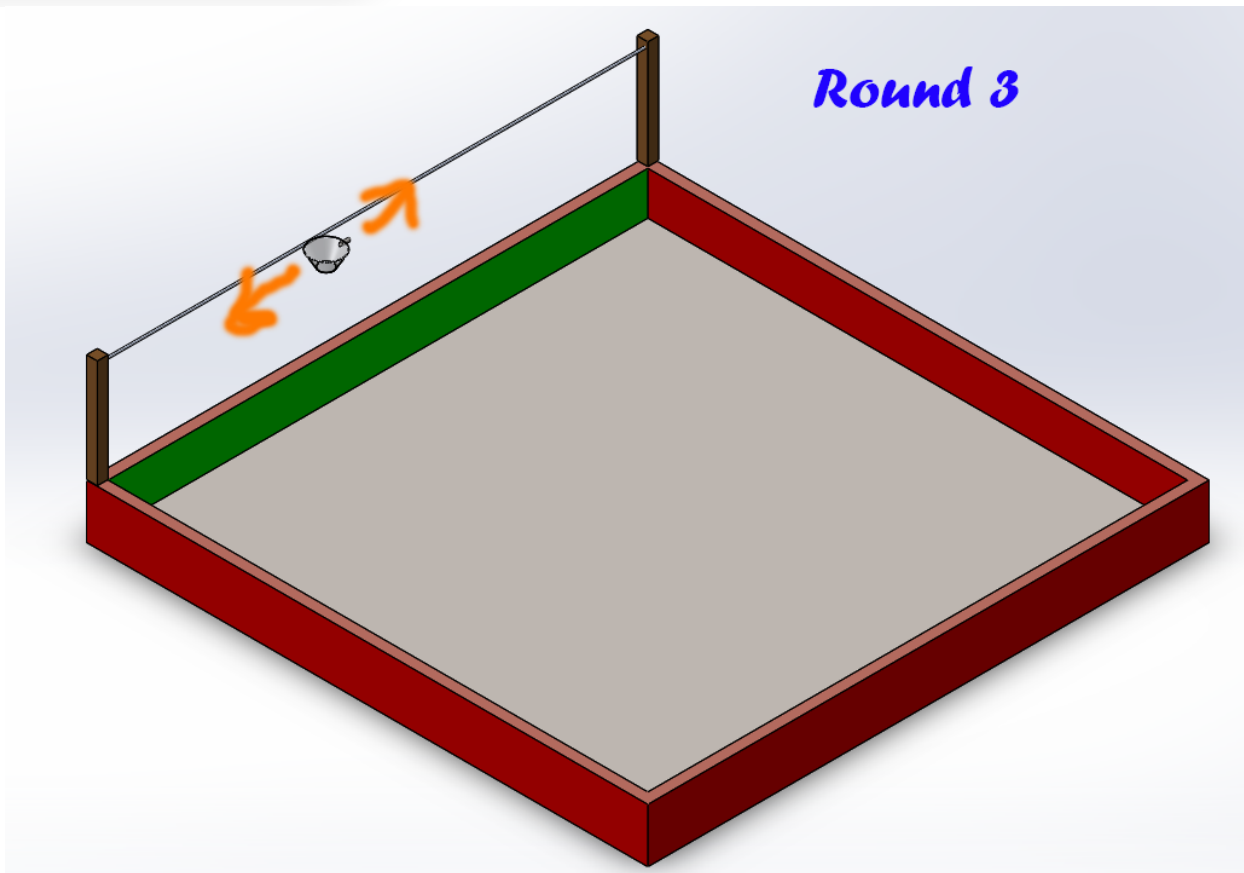
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Round 2





RULES AND REGULATIONS:

- Any failure in meeting the specifications can lead to disqualification of the team.
- Any violation of rules and regulations found at any point of time will lead to immediate disqualification.
- Each participant should bring college ID proof.
- Robots can be modified after a round but not within a round. But repairing of bots within a round like wiring, soldering, tightening screws etc. may be allowed based on the organizer's choice.



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- Robots should be checked well before the match. If a robot is damaged during the match it will be considered team's liability. However, an extra time of 2 minutes **may** only be given in Case of accidental damage of solder joints, leading to circuit failure.
- Decision of the Event coordinator is Final.
- The organizers reserve the right to change any or all the rules as they deem fit.
- Decision of organizers shall be treated as final and binding on all.

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