

ROBOLUTION 2017

Battle Of Bots

Rules:

1. Registration is mandatory.
2. Any team member can have maximum 6 members.
3. In the time of the fight only 2 members will be allowed to stay around the arena.
4. Mark distribution is given in the bottom part.
5. Any Communication is allowed, but it should be wireless.

Robot Specification:

1. The bot can be walker, roller, hopper or whatever as long as it moves around in a controlled manner without causing any damage to the arena or harming the audience.
2. Dimension of the robot must be (max)

Length: 45 cm, Width: 35 cm, Height: 35 cm.

3. Maximum **Weight must be 10 kg**
4. The robot must have one weapon system with limitations.

Restrictions:

1. Weapons involving fire, water, flammable fluids and gas are not allowed.
2. The Robots are not allowed to throw anything or release anything externally. It should be compact.
3. Jamming device is prohibited.

Power Supply:

Robots should be battery powered. Power mustn't be provided externally. There will be no external power source near the competition arena.

Arena Details:

1. Arena will be a square shape with a length of **305 cm**.
2. The height of the arena will be **46cm**.
3. There will be a slope of 30 degree in which the bot will have to climb to enter the arena.
4. In the middle, there will be a square hole of **50cm**.
5. The hole will be created automatically after an interval.

Game style:

There will be total 4 rounds. They are:

1. **Group Stage:** Participants will be divided into a number of groups. Number of groups and number of participants in each group will be decided after the registration.
2. **Quarter final:** This will be a four bot round. Only one will be qualified for next round. 4 bot will be qualified for next round.
3. **Semi Final:** This will also be a one-to-one round. Only one will be qualified for next round.
4. **Final:** Total 2 team will be fighting with each other.

Game challenge:

1. There will be arrangement of automatic square holes in the arena.
2. The group stage battle will be for 2:30 min.
3. The quarter final battle will be for 3 min.
4. The semi-final battle will be for 3:30 min.
5. The final battle will be for 5 min.
6. First 30 sec will be no holes in the arena.
7. Next 90 sec the hole will be created in the arena.

Arena Picture:

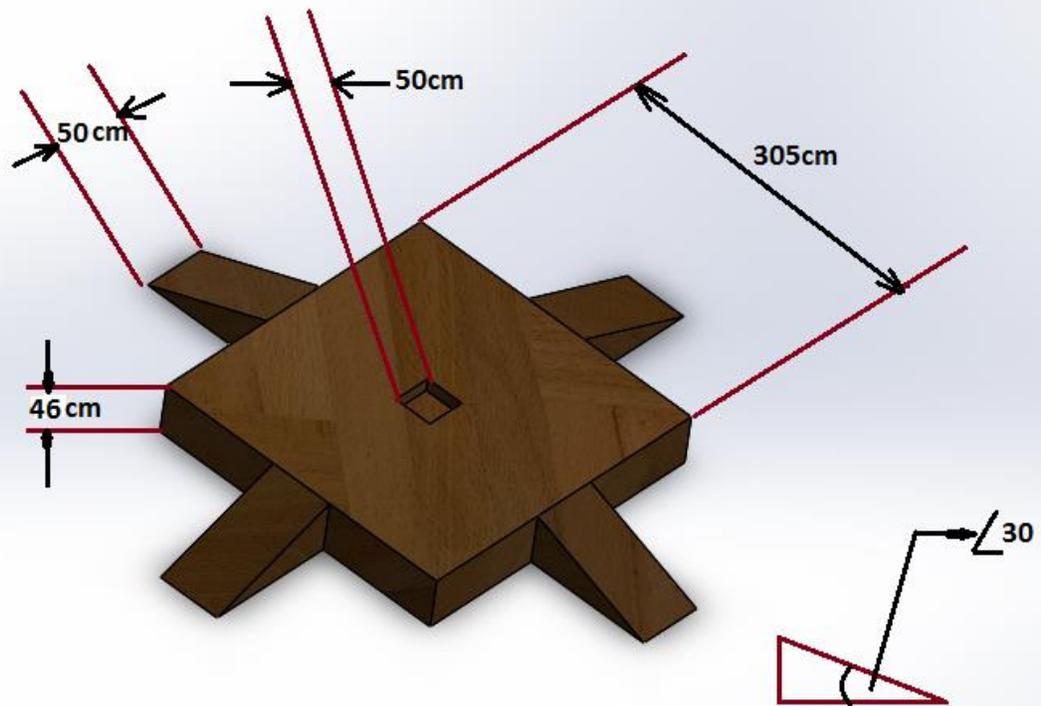


Fig: Arena Of Battle Of Bots

Marks Distribution:

Content	Points
Climbing the slope within 10 sec	20
Flipping over the opponent bot	20
Disabling the opponent bot	40
For every clearly visible hit with the weapon	20
Throwing out from the arena	40
Throwing out by opponent from the arena	-40
Throwing out in the hole	20
Throwing out in the hole by opponent	-20
Good circuitry	20
If a robot fall down by itself	-20

NB:

1. The organizer's reserve the right to make changes to any of the above in the interest of fair play and sportsmanship, and to ensure that all competitors have an enjoyable competition.
2. In the event of ambiguity, the organizer's interpretation of any clauses of the rules shall prevail.