

## ROBOWAR

### **TASK:**

Design a wired or wireless manually controlled ROBOT that has the power to destroy the opponent.

### **ELIGIBILITY AND TEAM SPECIFICATION:**

**Eligibility:** Students of any recognized engineering college or school.

**Team Specifications:** Any team can participate in the Robowar. A team may consist of **3-5 participants**. These participants can be of same or different institutes.

**Team Name:** Every team must have a specific name. Team names that will sound offensive or conflicting will be bound to be rejected.

**Team Representation:** A team must specify their Team Representative (Leader) at the time of registration.

### **Bot Specification and Power Supply**

The robot must fit within a **40cm x 40cm x 40cm** paper box at the starting point.

The bot should not exceed **15 Kgs** of weight.

Power supply is restricted to **18 volts**. Please bring your adapters.

## Event Specifications: (Prelims)

1. There will be three rounds for two robots to participate at a time.
2. Any two of diagonal pits will be activated while the robots compete in **Round 1** and **Round 2**.
3. The **center well** will remain deactivated while the robots compete in **Round 1** and **Round 2**.
4. The **center well** and all the **four pits** will be activated while the robots compete in the **Round 3**.
5. Each robot will be allotted a particular spot.
6. Groups competing have to strictly follow the rules, else will be disqualified.
7. The decision of the judges will be final.
8. Penalty for Arena destruction.

### Round 1:

1. Robot in **Spot 1** begins.
2. After 5s, robot in spot 2 will become active.
3. Total time of **Round 1** is 3 minutes.
4. If there is no output within three minutes, then the robots will fight face to face and the robot which remains in its competitor's territory after 1 minute, wins.

### Round 2:

1. Robot in **Spot 2** begins.
2. After 5s, robot in spot 1 will become active.
3. Total time of **Round 2** is 3 minutes.
4. If there is no output within three minutes, then the robots will fight face to face and the robot which remains in its competitor's territory after 1 minute, wins.

### Round 3:

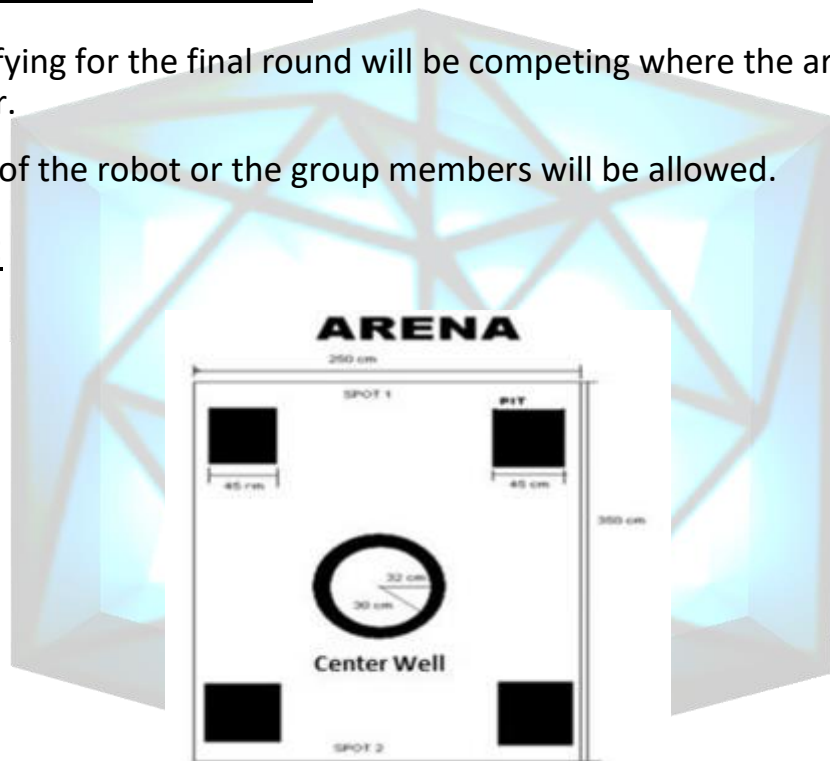
1. Robots in **Spot 1 and Spot 2** will start together.
2. Total time of **Round 3** is 3 minutes.
3. If there is no output within three minutes, then the robots will fight face to face and the robot which remains in its competitor's territory after 1 minute, wins.

### Event Specifications: (Finals)

The robots qualifying for the final round will be competing where the arena details will be provided later.

No modification of the robot or the group members will be allowed.

### Event Arena:



### Scoring:

In **Round 1 and Round 2** within 5 seconds if Robots 1(for round 1)/Robot 2( for Round2) put its opponent (Robot 2/Robot 1 according to round) out then **50points** for the robot that stays on the arena. If the opponent robot stays in the arena then the opponent robot gets **200 points**.

If any robots falls in any pit in any rounds then **100 points** will be awarded to the opponent robot group.

For extra time play **100 points** for the robot that wins.

If robot falls in the center well in the 3<sup>rd</sup> round the opponent is awarded **50 points**. If time out taken then the opponent robot is awarded **20 points**.

The robot wins a round which earns the maximum points.

The robot wins the total event (Prelim/Final) if it has the maximum point over its opponent. Where

**Points = (Round1 Points + Round 2 Points + Round 3 Points)/3**

**Note: Change in rules, if any will be highlighted on the website and will be notified to the registered team via e-mails.**

#### **TERMS AND CONDITION**

*Participants from GNIT should get their college ID cards.*

*Participants from other schools/colleges are requested to get a valid ID proof.*

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