

# **RULE BOOK FOR**

# **MAZE RUNNER CHALLENGE**

## **Event Overview**

The Maze Runner Challenge is a technical competition where participants navigate a small car through a maze. The goal is to complete the maze in the shortest time while avoiding obstacles and penalties.

## **Eligibility**

- Open to all students.
- Teams can have 2 members.
- Only registered teams are allowed to participate.

## **Car Specifications**

- Participants can either bring their own car or use the car provided by us.
- The car must fit within 30 cm (L) x 20cm (W) x 20 cm (H).
- The car must be battery-operated (no fuel-powered vehicles).
- autonomous navigation is not allowed.
- No harmful components (sharp edges, explosives, hazardous materials) are allowed.

## **Maze Overview**

- The maze will contain obstacles and dead turns to challenge participants.
- The exact layout and specifications will be revealed on the event day.

## **General Guidelines**

- Participants must follow event coordinators instructions.
- Any damage to the maze or unfair play will lead to disqualification.
- The decision of the judges is final.

## **Maze Runner Challenge Rules**

### **Student Coordinators-**

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### **1. Team Composition:**

Each team will have two members.

### **2. Attempts:**

- Each team gets two attempts per round.
- In the first attempt, one participant will drive the car.
- In the second attempt, the other participant must drive. A single participant cannot drive in both attempts.

### **3. Rounds & Qualification:**

#### **First Round:**

- The top 10 teams with the best completion times will qualify for the second round.

#### **Second Round:**

- Additional obstacles will be introduced.
- Each team gets two attempts, one per participant.
- The top 5 teams will qualify for the final round.

#### **Final Round:**

The top 2 teams with the best times will be declared winners.

### **Conditional Time Limit:**

If participation is higher than expected, a time limit will be set for each round and attempt to ensure smooth progression of the competition.

### **Scoring & Penalties**

- Fastest completion time wins.

#### **Penalties:**

- Touching the car: +5 seconds
- Resetting at checkpoint: +10 seconds
- Going out of bounds: +10 seconds
- Hitting maze wall: +5 seconds

### **Judging Criteria**

- The time taken to complete the maze.
- The number of penalties incurred (in case of tie also)
- Final decision will be of Judge.

### **Awards & Recognition**

- Winner: Fastest completion time with minimum penalties.
- Best Innovation: Most creative car design.( if they are bringing their own car)

### **Safety Precautions**

- Ensure that the car adheres to the given safety standards.
- Avoid high-speed collisions to prevent damage to the maze and other components.
- If participants bring their own cars, they must ensure that no harmful materials or components (sharp edges, explosives, etc.) are used.