

Robo-Evade: Robotics Competition

Overview

Step into the thrilling world of **Robo-Evade**, a robotics challenge inspired by the classic game of **Pac-Man**. In this exciting event, robots navigate a maze in a high-stakes battle of strategy and speed. Teams will play as:

- **Evader:** A robot that must outwit and avoid being caught by the opponents.
- **Chasers:** Robots that coordinate to corner and capture the Evader.

The competition isn't just about skillful navigation but also about building innovative robots that stand out in design and performance. Are you ready to test your engineering prowess?

Rules and Guidelines

Robot Specifications

- **Size:** Robots must measure between **15x15x15 cm and 20x20x20 cm**.
- **Control:** Only **remote-controlled (RC)** robots are allowed. Wired controls are prohibited.
- **Build Requirement:** Robots must be **handcrafted** by the participants. Ready-made or purchased robots are not permitted.

Gameplay

- **Match Format:**
 - Each match involves **three teams**, alternating roles: one team as the **Evader** and the other two as **Chasers**.
 - Every team gets one chance to be the Evader and two chances to play as Chasers.
- **Round Duration:** Each round lasts **3 minutes**.
- **Scoring System:**
 - **Evader:**
 - Gains **20 points** if it avoids being caught for the full 3 minutes.
 - Loses **5 points** each time it is caught.
 - **Chasers:**
 - Earn **10 points** for each successful capture of the Evader.
 - Gain a bonus of **40 points** if they catch the Evader **four times** in a single round.

- **Magical Zone:**
 - The maze includes a **Magical Zone**, granting the Evader temporary **invisibility** for a few seconds.
 - The Evader can activate this feature **once per minute** to escape the Chasers.
- **Winner:** The team with the **highest total score** at the end of all rounds will be crowned the winner.

Why Participate?

- Showcase your **robotics expertise** and creativity.
- Experience a game filled with **strategy, teamwork, and excitement**.
- Compete against the brightest minds and claim the **champion's title**.

Are You Ready?

Gear up, design your robot, and bring your A-game to **Robo-Evade**. Let the thrill of innovation and competition take center stage at our college robotics event!

