

# INNOVATEX 4.0 – Presidency University

## MakerSpace Cluster | Standard Rule Book Format

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### Event Overview

| Field      | Details             |
|------------|---------------------|
| Event Name | MAZE RUNNER         |
| Cluster    | MakerSpace Cluster  |
| Event Type | RC Event            |
| Mode       | Offline             |
| Team Size  | Team of 2–4 Members |
| Duration   | Half day            |

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### Event Task / Objective

Participants will design, build a rc bot , it must fit within (25)cm L , (25)cm W , 15 cm H, (L\*W\*H). Participants will bring pre-made bots(bots made before the event) to the event. All the participants will be given a task to complete the maze in shortest time with collecting maximum points





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### Design / Technical Specifications

- Bot must fit within (25)cm L , (25)cm W , 15 cm H, (L\*W\*H).
  - maximum of 12V battery is allowed.
  - Bot can be programmed using any language .
  - Bot's weight must not exceed 2kgs.
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# Scoring system

## 1. Award

- |  |                              |            |
|--|------------------------------|------------|
| •  Green Patch          | Normal scoring zone          | +5 Points  |
| •  Purple Patch         | Successful turn navigation   | +10 Points |
| •  Yellow Patch         | Bonus / special scoring zone | +15 Points |
| •  Reaching Finish Line | Completing the maze run      | +20 Points |

## 2. Penalty

- |   |            |
|---|------------|
| • Bot touches maze wall at any point                            | -5 Points  |
| • Unable to complete the maze in given time                     | -10 Points |
| • Human Interaction— Any physical touch/help to the bot by team | -5 Points  |

## General Guidelines

1. Participants must adhere to the event schedule.
  2. Teams are responsible for bringing their own equipment unless stated otherwise.
  3. All entries must be developed **before the event**.
  4. Teams will be given a fixed time to complete the maze.
  5. The judges and organizers' decision is final.
  6. Any unsafe or unethical behavior will lead to disqualification.
  7. Start Point: All bots will start from the designated starting zone within the maze.
  8. End Point: The bot must reach the finish line to complete the challenge.
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## Safety Rules

- All equipment must comply with safety regulations (battery, wiring, mechanical setup).
- Participants must follow event venue safety instructions.
- RC vehicles must include guards or fail-safes.
- No flammable, high-voltage, or hazardous materials allowed.
- Spectators must remain outside designated operational areas.
- Stable Control: The bot's movement must be safe and controlled to prevent damage to the track or other participant.



## Event Rounds / Structure

| Round                   | Description                                  | Duration |
|-------------------------|--|----------|
| Round 1                 | Participants will engage in solving the maze | 3.5hrs   |
| <b>Final Evaluation</b> | Judging and result                           | [—]      |



## Submission Guidelines

Final submissions must include:

Participants are expected to clear the maze within the given time limit.



## Judging Criteria

| Criteria          | Weightage |
|-------------------|-----------|
| Points collection | 50%       |
| Time taken        | 50%       |

## Scoring Overview

| Parameter         | Max Points |
|-------------------|------------|
| Obstacle Handling | 105        |
| Points collection | 100        |
| <b>Total</b>      | <b>100</b> |

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## Penalties & Disqualifications

| Violation                                 | Penalty    |
|---|------------|
| Unable to complete the task in given time | -20 Points |
| Violation of Safety Zone                  | -5 Points  |

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## Awards & Recognition

| Category  | Prize   | Remarks         |
|-----------|---------|-----------------|
| 1st Prize | ₹15,000 | Winner          |
| 2nd Prize | ₹10,000 | Runner-up       |
| 3rd Prize | ₹7,000  | Technical Merit |

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## Event Team

| Role                   | Name              | Department / Club   | Contact                                   |
|------------------------|-------------------|---------------------|---|
| Faculty Coordinator    | [Name]            | [Dept]              | [Email/Phone]                             |
| Event Lead             | Hardik shrimali k | Btech ECE, 1st year | hardikshrimali906@gmail.com/+917483875575 |
| Technical Mentor       | [Name]            | [Club]              | [—]                                       |
| Logistics & Media Lead | [Name]            | [—]                 | [—]                                       |

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## General Instructions

- Follow all university and MakerSpace cluster policies.
  - Respect judges, peers, and staff.
  - Any form of plagiarism or code reuse will lead to disqualification.
  - Decisions of the judges are final and binding.
  - Certificates will be awarded to all valid participants.
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## Official Note

This Rule Book serves as the official guideline for all MakerSpace Cluster events under INNOVATEX 4.0, Presidency University.

Any updates or clarifications will be communicated officially via the MakerSpace WhatsApp community and notice board.