



ADVANCED ROBOTICS CLUB (ARC)

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About:

Meshmerize is a robotics competition where teams design and build a line-following robot capable of navigating a maze-based track. The bot must first complete a Dry Run to analyze and learn the path layout. In the Final Run, it should utilize the acquired data to traverse the maze efficiently and reach the endpoint in the shortest possible time. The event challenges participants to integrate concepts of automation, path optimization, and sensor-based control to achieve maximum performance.

Rules and Regulations:

1. Registration:

All teams must register online through the official Techfest website to participate in the competition.

2. Team Identification:

Upon successful registration, each team will receive a unique Team ID, which must be used for all communication and references throughout the event.

3. Additional Registration:

Teams are also required to complete the online registration form released by the Advanced Robotic Club for internal coordination.

4. Eligibility:

Each team must consist of registered participants only. Team members must belong to the same educational institution unless otherwise permitted by the organizers.

5. Robot Specification Compliance:

Robots must strictly adhere to the design, dimension, and component rules specified for the competition. Any modification or non-compliance may lead to disqualification.

6. Run Procedure:

- o Teams will be given a Dry Run to analyze the maze and record the optimal path.
- o During the Final Run, the bot must use the learned path to complete the maze in the shortest possible time.



WWW.ARC.ACEN.EDU.NP



ADVANCEDROBOTICSCLUB@ACEN.EDU.NP



9742426324/9812369375



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7. Judging Criteria:

Performance will be evaluated based on:

- o Completion time
- o Accuracy in following the path
- o Smoothness of movement
- o Use of logic and optimization

8. Decision Authority:

The decision of the judges and organizers will be final and binding on all participants.

9. Responsibility Disclaimer:

Techfest, IIT Bombay will not be responsible for any late, lost, or misdirected entries or any technical failures during the competition.

10. Information Updates:

The official Techfest website will always host the latest information. Registered participants will also receive email updates for any changes.

11. Communication:

All official announcements will be made through the Techfest email. Participants must regularly check all email folders, including spam/junk.

Structure:

The **top 2 teams** from each Zonal Qualifier will advance to the Grand Finale held during IIT Bombay, Techfest 2025–26. (Only if they score above the **minimum cut-off mark**)

Problem Statement:

https://techfest.org/media/compiProbStatement/Meshmerize_final.docx.pdf



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