

RULEBOOK PROJECT EXPO



ROBOVANZA9.0
2025-26

1. EVENT OVERVIEW

The Robotics Project Expo is a platform designed to showcase innovation, creativity, and technical excellence in the field of robotics and automation. This event brings together young minds to present their original robotic solutions to real-world problems. Participants will have the opportunity to demonstrate their projects before a panel of expert judges, engage with fellow robotics enthusiasts, and gain valuable feedback on their work.

2. TEAM COMPOSITION & ELIGIBILITY

- **Team Composition**

Team Size:

Minimum: 2 members

Maximum: 4 members

- **Eligibility**

- Participation is open to engineering students from First Year to Fourth Year only.
- All participants must carry and present a valid college ID card for verification.

3. THEMES FOR THE PROJECT EXPO

1. Automation Systems for Real-World Applications
2. Sustainable Technologies Using Robotics and IoT
3. Smart Systems for Health and Safety Monitoring
4. Human-Controlled Collaborative Robotic Systems
5. Intelligent Security and Surveillance Systems
6. Open Innovation in Robotics, IoT, and AI-Enabled Systems





4. RULES OF THE COMPETITION

• Project Originality

1.1 Mandatory Original Work

1. All projects must be originally developed.
2. Ready-made or pre-assembled projects are strictly prohibited, including but not limited to:
 - Commercial robotic kits (line followers, obstacle avoiders, robotic arms, etc.)
 - Fully assembled robots purchased as complete units
 - Direct replication of existing projects without substantial modification is not permitted.

1.2 Permitted Components and Practices

1. Use of standard electronic components is allowed (Arduino, Raspberry Pi, sensors, motors, etc.).
2. Use of open-source libraries is permitted with proper citation.
3. Custom mechanical designs, circuits, and system architectures are encouraged.

• Inter-College Participation

1. Teams may consist of members from different colleges or institutions.
2. All team members must be currently enrolled students at their respective institutions.
3. A valid institutional ID must be produced during registration and verification.

• Judging criteria

The evaluation will be conducted by a panel of expert judges based on the following criteria:





1. Innovation & Creativity

- Originality of concept and approach
- Novel solutions to identified problems
- Creative use of technology and resources

2. Technical Implementation

- Quality of mechanical design and construction
- Electronics integration and circuit design
- Programming logic and code efficiency

3. Problem-Solving Application

- Relevance to real-world challenges
- Practicality and feasibility of the solution
- Potential impact and scalability

4. Presentation & Demonstration

- Clarity of explanation and communication skills
- Effectiveness of live demonstration

5. Design & Aesthetics

- Build quality and finishing
- Organised wiring and component placement
- Overall appearance and professional presentation

6. Abstract Submission

The abstract must include:

- A clear problem statement
- An overview of the proposed solution
- Expected outcomes of the project



- **Competition Format**

Single Round Evaluation:

- The expo will consist of a single comprehensive evaluation round designed to assess projects thoroughly and ensure fair selection of winners.
- As part of the registration process, all participating teams are required to submit a project abstract

Duration per Team: 10-15 minutes

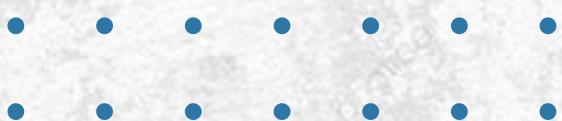
Presentation: 5-7 minutes (project overview, design approach, features)

Live Demonstration: 5-6 minutes (working model demonstration)

Q&A Session: 2-3 minutes (judges' questions and technical queries)

All teams will present on the same day during their allocated time slots. The schedule will be shared at least 48 hours before the event. Teams must report to the reporting desk 30 minutes prior to their scheduled slot.





• **Disqualification**

Teams will be immediately disqualified under the following circumstances:

1. Project Originality Violations

- Use of ready-made commercial robot kits
- Plagiarism
- Inability to explain the working principle or code

2. Team Composition Issues

- Team size below minimum (2) or above maximum (3-4) requirements
- Unregistered team members participating
- Misrepresentation of team member credentials

3. Time Management

- Failure to report at the designated time slot
- Exceeding the allocated presentation time despite warnings

4. Safety Violations

- Projects causing safety hazards to people or property
- Use of dangerous or prohibited materials
- Non-compliance with safety guidelines provided by organisers



5. PRIZEPOOL:

Winner→ ₹4,500

Runner Up→ ₹3,000

6. EVENT COORDINATORS:

- 1.Preethi- 9182310926
- 2.Rafah- 75699 58238

