



Organized by: Motion Robotics, Pune

Dates: November 16, 2025

Venue: Pune

****ORTHON OF THE PURPOSE **ORTHON OF THE PURPOSE**

The Motion – Tech Robo Competition is more than just a contest—it's a movement to inspire the next generation of creators, engineers, and innovators across Maharashtra. By engaging students in hands-on robotics and drone challenges, we aim to:

- Spark curiosity in STEM fields
- Encourage teamwork, creativity, and problem-solving
- Provide a platform for showcasing technical talent
- Build a community of future-ready thinkers and builders

Event Categories

30 = 10111 00110 001100		
Event Name	Eligibility	Description
Mech – Tech	Grades 1–4	Introductory mechanical challenges for young minds
Robo Soccer	Grades 3–10	Fast-paced robot soccer matches requiring strategy and control
Robo-Race (Obstacle Race)	Grades 3–10	Navigate robots through a dynamic obstacle course
Trace The Track	Grades 3–10	Line-following robot challenge focused on precision
Drone Dash	Grades 3–10	Aerial drone race testing agility and navigation
Robo Wrestling	Grades 6–10	Bot-versus-bot wrestling matches showcasing strength and tactics
Innovative Challenge Exhibition	Open to all with valid ID proof	Showcase original tech projects—no age limit, just creativity

M Venue Requirements

- Secure storage area for equipment and participant kits
- Smooth flooring for robot track events
- Adequate ceiling height for drone events (minimum 15 ft clearance)

• Special Requirements:

- Parking space for participants and visitors
- Washrooms and sanitation facilities
- Drinking water and basic refreshments

• Facilities:

- Clearly marked entry/exit points
- Fire extinguishers and safety officers on standby
- First-aid and emergency support

Safety & Logistics:

- Safety mats and barriers for robot race tracks and drone flying zones
- Tables and chairs for participants, judges, and organizers
- Projector and sound system for announcements and presentations

Technical Setup:

- High-speed Wi-Fi for live scoring, streaming, and project demonstrations
- Backup power (generator/inverter)
- Reliable electricity supply with multiple sockets and extension boards

Power & Connectivity:

- Breakout rooms for team preparation and practice
- Dedicated exhibition space for the Innovative Challenge Exhibition
- Separate outdoor/large hall area for drone challenges
- Large indoor hall or auditorium for main events

• Space & Layout: To ensure smooth execution of the Motion – Tech Robo Competition

- Adequate ceiling height for drone events (minimum 15 ft clearance)
- Smooth flooring for robot track events
- Secure storage area for equipment and participant kits.

Rewards & Recognition

Participants will compete for exciting prizes, certificates, and public recognition. Top performers may also be featured on our website and social media platforms, amplifying their achievements.

Solution Opportunities

We invite schools, tech companies, and educational organizations to join us as:

- Sponsors Support the event and gain brand visibility
- Knowledge Partners Conduct workshops or mentor participants
- Media Partners Cover the event and amplify its reach
- Volunteer Networks Engage students and educators in event execution

Promotional Tagline

"Are you ready to build, battle, and break limits?"

Join the ultimate arena of robots and drones. Be part of Maharashtra's innovation wave.

Contact Information

Coordinator: Motion Robotics Team

Phone: +91 9730480960

Website: www.motionrobotics.in

Event Categories – Detailed Descriptions

Mech – Tech (Grades 1–4)

- Type: Mechanical challenge (no electronics required)
- Goal: Introduce younger children to basic mechanics and problem-solving.
- Examples: Building simple pulley systems, gear models, or mini-bridges with given materials.
- Duration: 30–45 minutes.

Robo Soccer (Grades 3–10)

- Type: Robot vs. robot soccer match.
- Goal: Control robots to score goals against opponents.
- Requirements: Teams build simple robots (wired or wireless) capable of movement and ball control.
- Judging: Points awarded for goals, teamwork, and robot efficiency.
- Arena: Mini football-style ground with boundaries and goalposts.

Robo-Race (Obstacle Race) (Grades 3–10)

• Type: Speed + Obstacle navigation.

- Goal: Navigate robots through a track filled with obstacles (ramps, hurdles, zig-zags, see-saws).
- Challenge: Fastest time with minimal errors wins.
- Judging: Time taken + penalties for missed obstacles.

Trace The Track (Grades 3–10)

- Type: Line-following robot competition.
- Goal: Program/build a robot that follows a black/white track using sensors.
- Challenge: Curves, intersections, and tricky track patterns.
- Judging: Accuracy and completion time.

Drone Dash (Grades 3–10)

- Type: Drone racing challenge.
- Goal: Fly drones through checkpoints, tunnels, or hoops.
- Challenge: Avoid obstacles and complete laps in the fastest time.
- Safety: Enclosed net area for drone flying.
- Judging: Time + accuracy of completing checkpoints.

Robo Wrestling (Grades 6–10)

- Type: Robot vs. robot combat challenge (non-destructive).
- Goal: Push the opponent's robot out of the arena ("Sumo-style") or disable movement temporarily.
- Rules: Weight/size limits on robots; no sharp or dangerous parts.
- Judging: Best of 3 rounds.

Innovative Challenge Exhibition (Open to All)

- Type: Project showcase.
- Goal: Students present their original innovations, prototypes, or research-based projects.
- Examples: IoT devices, renewable energy models, AI/ML applications, social impact solutions.
- Judging: Creativity, problem-solving, real-world application, and presentation skills.