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PROUDLY PRESENTS

ROBOTICA-26™

7TH INTERNATIONAL ROBOTICS COMPETITION

ROBOTICA 26 – International Robotics Competition 2026

EVENT NAME: WORKING MODEL

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1. Event Objective:

The working model competition is to identify, promote, and showcase innovative, practical, and sustainable solutions that demonstrate scientific and technical principles. The competition aims to foster creativity, problem-solving skills, and technical knowledge among participants. It also seeks to inspire teamwork, enhance presentation skills, and solidify a culture of innovation and scientific learning among students and innovators.

2. Event Details:

- **Date:** January 30, 2026
- **Venue:** VIT University, Chennai, Tamil Nadu
- **Registration Fee:** Rs. 200 per team
- **Finals Registration Fee**: Rs. 800 per team (applicable only for teams clearing Round 1 & 2)
- **Team Size:** Maximum of 2 members per team.

3. Category:

- **Sub- Junior :** Grade 3 to 5
- **Junior :** Grade 6 to 8
- **Senior** : Grade 9 to 12.

4. Themes for each category:

1. **Sub-Junior (Grades 3–5) –** Exploration, curiosity, and simple real-life applications
   - **Energy from Nature**
     - ✓ How can we use sunlight, wind, or water to power small devices?
   - **Healthy Living and Hygiene**
     - ✓ How can technology help in keeping ourselves and our environment clean and healthy?
   - **Helping Hands – Assistive Tools**
     - ✓ Create simple tools or gadgets that assist family members, pets, or classmates.
   - **Safe and Smart Home**
     - ✓ How can everyday objects be made smarter or safer for kids and elders?
   - **Waste to Wonder**
     - ✓ How can waste materials be transformed into useful, eco-friendly products?

2. **Junior (Grades 6–8) –** Problem-solving, environment awareness, and beginner automation
   - **Smart Living Solutions**
     - ✓ How can we make homes, classrooms, or playgrounds smarter using sensors and technology?
   - **Saving Water and Energy**
     - ✓ Design solutions that help conserve water or reduce electricity consumption.
   - **Road Safety and Transportation**
     - ✓ How can technology help in reducing accidents or improving traffic management?
   - **Community Care & Emergency Response**
     - ✓ Build systems that support people in emergencies like floods, fires, or health crises.

- **Play, Learn, and Explore**
  - ✓ Create learning tools or interactive games that make studying fun and engaging.

3. **Senior (Grades 9–12) –** Advanced thinking, data handling, AI, sustainability, and futuristic solutions
   - **AI for Good**
     - ✓ How can artificial intelligence support education, healthcare, or disaster management?
   - **Building Sustainable Cities**
     - ✓ Design systems that promote eco-friendly transportation, waste management, or renewable energy use.
   - **Smart Agriculture and Food Security**
     - ✓ Explore solutions that increase crop yield, reduce wastage, or monitor soil and weather conditions.
   - **Digital Safety and Privacy**
     - ✓ How can technology protect individuals' data, identities, and communication?
   - **Assistive Technologies for Differently-Abled**
     - ✓ create innovative tools that improve mobility, communication, or daily living for people with disabilities.

5. Event Format:

1. **Round 1 – Abstract Submission (Screening Stage)**

   Teams are required to submit a abstract that clearly explains their idea. The abstract should effectively convey the purpose, feasibility, and uniqueness of the concept, demonstrating how well the idea is defined and how it stands out from others.
   - **Judging mode:** Online, by a panel of reviewers.
   - The sample template for the abstract is available at https://www.robotica.org.in.
   - Kindly refer to the website for abstract details and guidelines.
   - Submission of the abstract will happen via google form, available after registration.

2. **Round 2 – 2-Minute Video Presentation (Pre-Evaluation Stage)**

   Teams are required to submit a 2-minute recorded video demo or pitch of their model that clearly demonstrates its working functionality, showcases strong presentation skills, and reflects the team's seriousness and commitment to the project.
   - **Judging mode:** Online review with a scoring sheet.
   - The sample template for the Video is available at https://www.robotica.org.in

3. **Round 3 – Tiered Evaluation + Poster + Demo (Quarter-Finals / Semi Finals)**

   Format: Like a science expo with booths
   - **Checkpoint 1 (Tiered Evaluation):** Judges quickly check if the project works, is innovative, and has relevance.
   - **Checkpoint 2 (Poster + Demo):** Teams present a poster (problem, solution, working principle, uniqueness, future scope) along with live demo. The sample template for the Poster is available at https://www.robotica.org.in
   - **Time per team :** 3 minutes maximum.
   - **Judging mode:** Offline, At the venue.

4. **Round 4 – Presentation (Finals)**
   Format: Teams present their working model before the Judging panel

   - **Evaluation Criteria:** Innovation, Technical Depth, Presentation, Social Impact, Marketability.
   - **Time per Team:** 3 minutes maximum.
   - **Judging mode:** Offline, At the venue.

6. Robotics Competition 2026 – Final Timeline

- Oct 1, 2025 – Official Announcement
- Nov 15, 2025 – Last Date for Registration
- Nov 20, 2025 – Last Date for Abstract Submission
- Nov 25, 2025 – Abstract Results Announced
- Dec 1, 2025 – Last Date for Video Submission (2-min demo/pitch)
- Dec 10, 2025 – Video Results Announced
- Dec 30, 2025 – Finals Registration Closes
- Jan 30, 2026 – Finals (Poster + Demo & On-Stage Presentation + Awards)

7. Project Construction Guidelines:

- **Materials:** Use sturdy and durable materials for the construction of your project. The use of materials like cardboard or thermacol is strictly prohibited.
- **Design:** Ensure that the project design is functional and durable, able to withstand practical testing and demonstrations.

8. Registration Process:

- **Fee** : Rs. 200 per team + Rs. 800 per team (applicable only for teams clearing Round 1 & 2)
- **Deadline** : Kindly refer to Point Number 6 in the same document.
- **How to Register:** https://www.robotica.org.in//

Contact Information:

For any queries or additional information, please reach out to robotica26@otomatiks.in

We highly encourage students and robotics enthusiasts to participate in **ROBOTICA 26** and showcase their talents. This is an excellent opportunity to compete at an international level and push the boundaries of innovation.

We look forward to seeing your incredible projects!

Best regards,
Team Otomatiks
Robotica-26 Planning Committee
Contact: +918148518703
Email: robotica26@otomatiks.in