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COMPETITION

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Robothrone Competition Handbook 2025-26

Introduction

Robothrone is an inter-school robotics and IoT innovation challenge designed to provide students aged 8–16 with a platform to explore creativity, engineering, and scientific inquiry. The competition focuses on real-world problems, hands-on learning, and responsible innovation. Students gain exposure to emerging technologies, teamwork, time management, and structured project development.

About Robothrone

Robothrone encourages multidisciplinary learning by merging Electronics, Coding, IoT, Mechanical Design, and Problem-Solving. The competition is designed to help school students experience STEM-based innovation with guidance from technical mentors and structured learning materials.

The event features:

- Skill-building workshops
- National-level recognition
- Innovation-based themes
- Exposure to real-world applications
- Hands-on robotics and IoT development

Organizer

Robothrone is organized by TechyGuide OPC Pvt Ltd — a leading EduTech organization offering hands-on robotics, coding education, and teacher training programs. TechyGuide aims to empower students by building foundations in 21st-century skills and engineering concepts.

Eligibility & Age Divisions

Junior Division (Ages 8–10)

- Focus on Scratch programming and basic robotics
- Encourages creativity and beginner-friendly technology use

Intermediate Division (Ages 11–13)

- Focus on Arduino projects, IoT, and sensor integration
- Helps develop mid-level robotics and coding skills

Robothrone 2.0 Guidelines

Senior Division (Ages 14–16)

- Advanced robotics, automation, AI-ML fundamentals, and industrial IoT
- Focuses on complex systems, data-driven design, and research-level thinking

Team Formation & Mentorship

- Teams must consist of 1 or 2 members from the same division.
- Mentors may guide multiple teams but must not build, code, or document the project.
- Students must demonstrate originality in all aspects of their work.
- Mentors can assist in learning concepts, systematic planning, safety, ethics, and project presentation.

Competition Themes

Junior Themes:

1. Scratch Programming Challenge
2. Smart Home Helpers

Intermediate Themes:

1. Environmental Monitoring
2. Smart Transportation

Senior Themes:

1. Industry 4.0 Solutions
2. Healthcare Innovation

Additional Allowed Extensions:

- Disaster Management Robotics
- Agriculture Automation
- Pollution Monitoring
- Community-Service Robotics
- Assistive Technology Systems
- Home Security Automation

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Teams may expand upon themes if aligned with ethical and safety standards.

Rules & Regulations

- Projects must be entirely created by participating students.
- Only safe and educational components may be used.
- High-voltage, High fire-based, or hazardous materials are strictly prohibited.
- Full disclosure of all components and software libraries is required.
- Video submissions must clearly show working demonstrations.
- Teams must follow Cybersafety, Ethical Innovation, and Responsible Engineering guidelines.
- Plagiarism, copied designs, or downloaded project codes lead to immediate disqualification.

Submission Guidelines

Each team must submit:

1. A project demonstration video (2–10 minutes, max 150 MB).
2. A PDF project report upload using the official student dashboard only.
3. Circuit diagram / block diagram.
4. A code summary or explanation (exact code optional if confidential).
5. Proper credits, acknowledgments, and safety compliance statements.

All submissions must be uploaded within the student dashboard before the deadline.

Judging Criteria

Innovation & Creativity – 25%

Technical Implementation – 30%

Functionality & Reliability – 20%

Presentation & Documentation – 15%

Real-World Impact – 10%

Additional Evaluation Notes:

- Judges consider age-appropriate difficulty.

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- Simpler junior projects may score equally to complex senior projects if innovative.
- Efficiency, safety, and clarity are important scoring factors.

Awards & Recognition (Junior, Intermediate & Senior)

1st Prize: 10,000 /- + DIY Kit + Certificate + Medal

2nd Prize: 6,000 /- + DIY Kit + Certificate + Medal

3rd Prize: 4,000 /- + DIY Kit + Certificate + Medal

N.B: If the team will be on duo category then the respective cash prize will be divided in both the participants.

All participants receive Registration Benefit:

- Certificate of Participation
- Robothrone Goodies
- Division wise 7 day's free course

Competition Timeline

- Registration Launch — Nov 22, 2025
- Registration Period — Nov 23 to Dec 24, 2025
- Orientation — Dec 15 to 20, 2025
- Boot Camp — Jan 2 to 10, 2026
- Final Submission — Mar 15, 2026
- Final Showcase & Awards — Apr 1 to 15, 2026
- Prize Distribution — May 15 to 31, 2026

Registration Process

- Register at the official portal (<https://techyguide.in/robothrone>).
- Register themselves.
- Fill profile details like your division and theme.
- Pay ₹1000 registration fee per team.
- Receive confirmation ID via email.

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- Access student dashboard for submissions and resources.

Resources Provided

- Competition Handbook
- Project Ideation Guide
- Project Report Template
- Sample Project Videos

Support & Contact

Email: robothrone@techyguide.in

WhatsApp: +91 91080 65026

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Support Hours: Mon–Fri, 9 AM – 6 PM IST

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