



ROBO RASHTRA '25

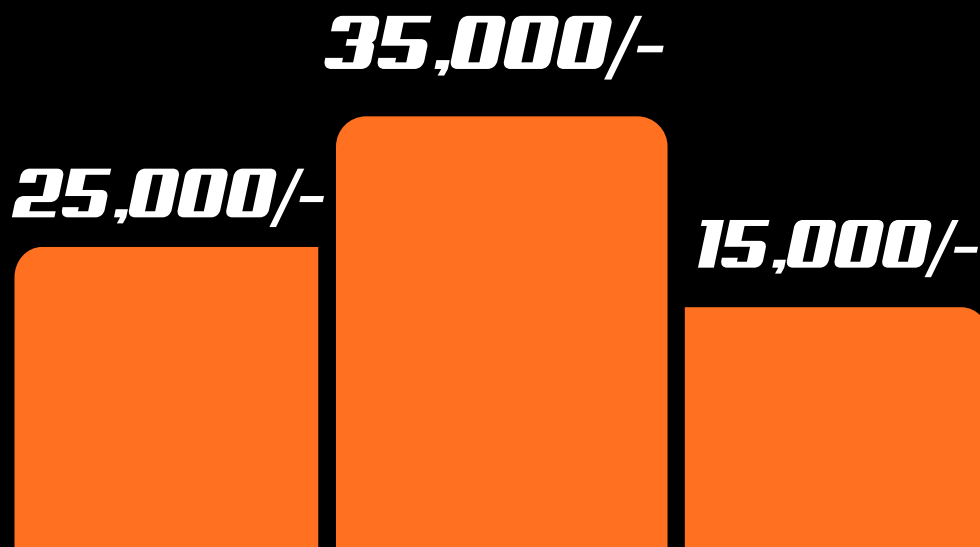
***Yantrautsav
Rulebook***



ROBO RASHTRA '25

THE RISE OF ROBONATION, BHARAT LEADS THE WAY

In **Yantrautsav** participants are invited to showcase their ingenuity and engineering skills by bringing a fully functional robotics-related model for the exhibition. This challenge is designed to inspire creativity and innovation, allowing participants to demonstrate their understanding of robotics principles in a practical setting. The competition is divided into two categories: a ****Junior League**** for younger or less experienced participants, and a ****Senior League**** for advanced participants. Both leagues will be evaluated on design, functionality, and presentation, providing a platform for all skill levels to shine.



PRIZE POOL

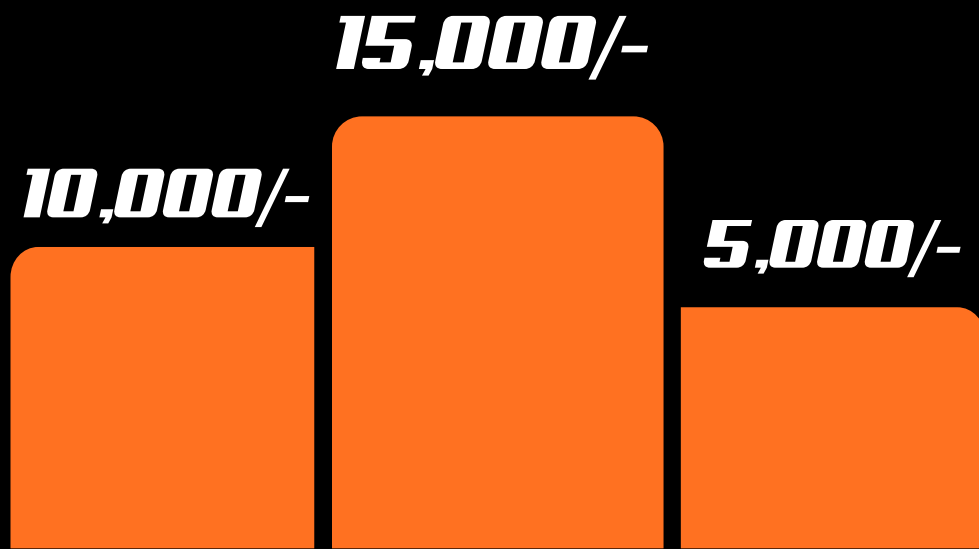
75000/-

SENIOR CATEGORY



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PRIZE POOL

30000/-

JUNIOR CATEGORY



ROBORASHTRA'S Yantrautsav



Welcome to Yantrautsav – an exciting event calling all aspiring innovators and young minds to showcase their creativity, passion, and robotics skills!!.

Open to all skill levels – whether you're a beginner or an experienced creator in innovation.

Golden opportunity to showcase innovative ideas and robotic creations.
Open to participants of all age groups, ensuring diversity and exciting experiences.

Demonstrate the technology behind your creation and explain its working.

Solve real-world problems or introduce new concepts, using this platform to share unique ideas.

Impress the audience with your ingenuity for a chance to win exciting prizes!

ROBOHAWK

Note:

1. Organizers reserve the rights to modify or amend the competition rules at any time. Participants will be notified of any changes.
2. The decision made by judges are final and cannot be contested.



Junior and Senior categories:

The event is divided into 2 main categories: -

Category	Junior Category	Senior Category
Eligibility	Students of HSC (12th) or below	Undergraduates and above
Objective	Exhibit self-made robots, ideas. explain their working and unique features.	Showcase working robots or prototype with a focus on innovation and problem-solving.
Prize - 1st	₹15,000	₹35,000
Prize - 2nd	₹10,000	₹25,000
Prize - 3rd	₹5,000	₹15,000
Special Note	Working robots gain extra points.	Fully operational bots Gain extra point
Category	--	application domain*

Robotics Application domains (Not limited to the following):

- Sustainable Energy** – wind, hydroelectric, solar power etc
- Task-performing autonomous project** – autonomous robots, autonomous drones

• Subcategories: -

- o Outdoor Autonomous Projects
- o Indoor Autonomous Projects (e.g., smart home projects)
- o Others Examples:
 - Arduino based Snake Robot Controlled using Android Application
 - wall climbing robot



Robotic Vehicle Controlled by Hand Gesture

■ Using PIC



3. Task-performing remote-controlled Projects
4. Agricultural Projects – grass cutter, agribot, agricultural related tasks
5. Robotic Arms - simple robotic arm, flex sensor robotic arm, algorithm based robotic arm, android controlled robotic arm, hand motion controlled robotic arm.
6. Military Application Projects
7. Humanoid and social Projects
8. Mechanical Education Projects:

- Design and Fabrication of Emergency braking system in Four-Wheeler
- 8 Leg Spider Robot Using Theo Jansen Linkage

9. Aquatic Projects:



- solar lake pool cleaning drone
- Oil Skimmer RC Boat

10. Medical field-related Projects
11. Swarm Projects
12. Educational Robotic Projects
13. Entertainment and art Projects
14. Other Category: Please specify

Marking structure (100 Marks):

1. Working Status (25 Marks)
2. Innovation & Originality (20 Marks)
3. Technical Feasibility & Implementation (20 Marks)
4. Presentation Skills (15 Marks)
5. Problem Statement & Relevance (10 Marks)
6. Q&A and Judges' Interaction (10 Marks)