

NAVRACHANA VIDYANI VIDYALAYA



TechXplore

"Calling All Innovators!"

CASH PRIZES WORTH 2,10,000 INR

Date: 24th & 25th October 2024
Last Date to Register: 30th September 2024





TechXplore NVV STEM TechFest



About Us

Navrachana Vidyani Vidyalaya, part of the Navrachana Education Society in Vadodara, Gujarat, has been a leading institution for over 55 years. The school emphasizes holistic education, blending academics with co-curricular activities, sports, and extracurricular pursuits.

True to its name, Navrachana, meaning "a new creation," the institution continuously adapts to meet the evolving needs of education.

Its emblem reflects a commitment to fostering the growth of students through diverse learning opportunities.

Our Atal Tinkering Lab (ATL) nurtures curiosity, creativity, and innovation, providing students with the tools to explore STEM, develop critical thinking, and turn ideas into reality.

Many of our students have advanced beyond classroom activities and competitions, venturing into entrepreneurship, and we are proud to see future founders emerging from our school 's innovation Lab.

From the Principal's Desk

Dear Educators and Students,
It is with great excitement that we
invite your school to join us at
TechXplore, our STEM Tech Fest.
At Navrachana Vidyani Vidyalaya
we are dedicated to fostering STEM
education as it is the driving force



behind tomorrow's innovations. This event offers students a unique opportunity to immerse themselves in the world of robotics and technology, compete, collaborate, and ignite their passion for innovation. We look forward to your participation in this celebration of creativity and learning.

Dr Archana Mishra

Principal

Program Schedule

Inauguration Ceremony

Keynote Address

Category 1: SDG Project Presentation

Category 2: Battle of Bots

Rock Show

Category 3 : Drone Face-Off

Workshop - Pitch your Dreams

Valedictory and Award Ceremony



TechXplore



Day 1, 24th October 2024

ACTIVITY	TIME	
Registrations & Breakfast	8:30 -10:00 AM	
Inauguration	10:00-11:00 AM	
SDG Project Booth Setup	11:00 - 11:30 AM	
Battle of Bots Setup	11:00 - 11:30 AM	
SDG Project display and Judges round	11:30 - 1:30 PM	
Battle of Bots	11:30- 1:30 PM	
Lunch	1:30-2:30 PM	
Battle of Bots	2:30- 5:30 PM	
Rock show 5:30 - 7:00 PM		
Dinner 7:00 - 8:00 PM		

Day 2, 25th October 2024

ACTIVITY	TIME	
Registration & Breakfast	8:30 - 9:45 AM	
Workshop – Pitch your Dreams	9:45 - 1:15 PM	
Lunch	1:15 - 2:00 PM	
Drone Face-off	2:00 - 4:30 PM	
High Tea and Snacks	4:30 - 5:30 PM	
Closing Ceremony	5:30 - 6:30 PM	





NVV STEM ACCOMPLISHMENTS!



TWO TEAMS WON SSIP PATENT SUPPORT AND A TOTAL OF INR 80,000



AWARDED AS THE ATL SCHOOL OF THE MONTH FOR DECEMBER 2023 AND JULY 2024

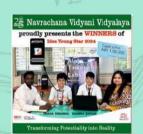


BEST ATL INNOVATION STALL AT IIC REGIONAL MEET, AHMEDABAD





RECEIVED EXCELLENT PERFORMANCE RECOGNITION IN THE ATL MARATHON 2023-2024 FOR SUBMITTING 29 PROJECTS.



YOUNG IDEA AWARD NATIONAL LEVEL CHAMPIONSHIP WINNER, ₹1.5 LACS



TWO TEAMS RANKED IN THE TOP 500 OF THE ATL MARATHON 2023



RUNNER-UP IN THE 40-HOUR HACKATHON AT NUV



ACHIEVED 1ST PLACE IN THE WEST ZONE FOR THE SAMSUNG SOLVE FOR TOMORROW NATIONAL COMPETITION.



CHAMPION IN ROBOT SUMO FIGHT AT THE LIFE ROBOTICS OLYMPIAD



NATIONAL RANK 1 AT WRO INDIA SEASON 2024 IN FUTURE INNOVATORS CATEGORY



TITLED GOLD MEDALIST AT THE WORLD ROBOT OLYMPIAD 2024, GUJARAT REGIONAL LEVEL IN FUTURE INNOVATOR



TITLED SILVER MEDALIST AT THE WORLD ROBOT OLYMPIAD 2024, GUJARAT REGIONAL LEVEL IN FUTURE INNOVATOR



TITLED BRONZE MEDALIST AT THE WORLD ROBOT OLYMPIAD 2024, GUJARAT REGIONAL LEVEL IN ROBO MISSION





















SDG PROJECT PRESENTATION CATEGORY 1





Participants will present their groundbreaking ideas aimed at addressing the United Nations Sustainable Development Goals (SDGs). This competition encourages creativity and innovation in finding solutions to global challenges.

Eligibility:

• Students of Grade 6 to 10

Project Display Specifications:

- Display Size: Each team will be provided with a 2m x 2m x 2m stall for their project display and setup. The stall will have three closed walls. A table will be provided for displaying materials. Teams are allowed to use the inside area of the stall for their project setup and presentation.
- Project Abstract: Flex printout is a must. The abstract should include:
 - Problem Statement
 - Solutions
 - Social Impact
 - Survey Data
 - o and other relevant details.

Judging Criteria:

- Innovation and Creativity
- Problem Solving
- Impact on Society
- Presentation and Communication
- Adherence to SDG Themes

Dazzling Rewards

FIRST PRIZE 30,000 INR

SECOND PRIZE 20,000 INR

THIRD PRIZE 15,000 INR





BATTLE OF BOTS

CATEGORY 2





"Battle of Bots" is an electrifying competition where teams of students design, build, and battle their own robots. This event challenges participants to push the boundaries of engineering, creativity, and strategy as they pit their custom-built bots against one another in a thrilling contest. Your safety is our first priority.

Eligibility:

Students of Grade 6 to 10

Event Highlights:

- Challenges: Robots will face off in a series of challenges, including obstacle courses, head-to-head battles, and special tasks designed to test speed, strength, and agility.
- Strategy and Skill: Success in the arena isn't just about raw power—teams must also employ strategic thinking and precise control to outmaneuver their opponents.

Battle Arena:

- The battle arena has a diameter of approximately 6 meters.
- The maximum robot dimensions are 35 cm x 35 cm x 35 cm (LxBxH), with a weight limit of 10 kg.
- · All robots must be controlled wirelessly; wired remote controls are not permitted.
- The arena will feature a variety of obstacles and hazards that bots must navigate
 while attempting to disable or outscore their opponents. Teams must prepare their
 bots for every possibility, from tough terrain to unexpected attacks.

Judging Criteria:

- Design & Creativity
- Innovation
- Programming and Technical Skill
- Battle Success
- Team collaboration

Dazzling Rewards

FIRST PRIZE 30,000 INR SECOND PRIZE 15,000 INR











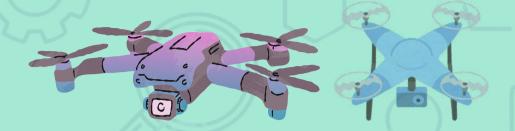






DRONE FACE-OFF CATEGORY 3





Experience the thrill of our drone competition, where teams will navigate their drones through challenging obstacles, showcasing their technical prowess and creativity.

Eligibility:

Students of Grade 6 to 10

Competition Arena Specifications:

- Arena Size: Each participant will compete in a designated drone flying path with dimensions of 50m x 50m.
- Course Features: The course will include various challenges such as:
 - o Hurdles: Obstacles that drones must navigate around or over.
 - Takeoff and Landing Zones: Specific areas for precise takeoff and landing maneuvers.
 - Rings: Rings suspended at various heights and angles that drones must fly through.
 - Other Obstacles: Additional elements designed to test the participants' drone controlling skills.

Drone Specifications:

- Drone Dimensions: The drone must not exceed 45cm x 45cm x 30cm LBH in size.
- DIY Requirement: Drones must not be purchased as pre-assembled units. Each participant must assemble their drone in a DIY format, using components that they have sourced themselves. Creativity and technical skill in assembling the drone will be considered during the evaluation.

Points System:

• Obstacle Points: Each obstacle in the course will have a designated point value. Participants will earn points for successfully navigating their drones through or around these obstacles.

Judging Criteria:

- Design & Innovation
- Speed and Efficiency
- Flight performance
- Technical Skill and Programming
- Team Collaboration





PITCH YOUR DREAMS

WORKSHOP







"Pitch Your Dreams" is an exciting workshop conducted by experts from the Student Startup and Innovation Policy (SSIP) cell designed to equip students with the essential knowledge and skills needed to create a successful startup. Whether you're brimming with ideas or just starting to explore the world of entrepreneurship, this workshop will guide you through the key steps of building a startup from scratch.

Workshop Highlights:

- Understanding Startups: Learn what it takes to turn an idea into a thriving business, including market research, business models, funding strategies, and more.
- Essential Skills: Gain insights into critical areas like product development, marketing, finance, and team building.
- Expert Guidance: Receive mentorship from industry experts and successful entrepreneurs who will share their experiences and tips for success.
- Interactive Sessions: Participate in hands-on activities that will help you develop your startup idea and refine your pitch.

Pitching Session:

- · At the end of the workshop, teams will have the opportunity to pitch their startup ideas to a panel of judges.
- Pitch Your Dreams is not just about having a great idea, but about how well you can communicate and sell that idea.

Judging Criteria:

- Strength of their pitch
- · Clarity of the idea
- Potential market impact
- Innovation
- Feasibility

Dazzling Rewards























SPECIAL RECOGNITION

YOUNGEST INNOVATOR





Youngest Innovator Award:

In recognition of the bright minds and exceptional talents of our youngest participants, we are proud to introduce a Youngest Innovator Award. This special award celebrates the creativity, innovation, and determination of teams composed of the youngest members in our Tech Fest.

Award Criteria:

- Age Factor: The award is dedicated to a team with the youngest average age among participants.
- Project Excellence: Teams will be judged on the quality and impact of their projects, whether it's related to Sustainable Development Goals (SDG), SUMO Robot competitions, Drone control, or Pitching innovative ideas.
- Innovation and Creativity: The award seeks to honor those who push the boundaries of creativity and demonstrate original thinking in their approach to solving problems.

Why the Youngest Innovator Award? We believe that age is just a number, and innovation knows no boundaries. The Youngest Innovator Award is our way of encouraging and empowering the next generation of tech leaders, providing them with the platform to shine and showcase their abilities on a grand stage.

Let's celebrate the innovators of tomorrow, today!





TechXplore GENERAL GUIDELINES



- Schools may register for maximum two out of the three available competition categories.
- · Same team cannot participate in more than one category.
- Teams registered for any competition are eligible to attend the startup workshop titled "Pitch Your Dreams."
- Each team(s) must consist of a maximum of three students, each school team(s)
 should be accompanied by one Teacher In-Charge.
- The Teacher In-Charge will be added to a WhatsApp group for important announcements and updates.
- · All events will commence strictly according to the scheduled time.
- Participants must arrive at the venue 15 minutes before the start of their respective events.
- Participants are not allowed to leave the premises during the event unless there is an urgent situation.
- Participants are required to wear their school uniform and the participant ID card (given at the time of registration) throughout the event.
- A doctor will be on call for any medical emergencies.
- Meals will be provided by the host school as per the given schedule.
- Schools are responsible for arranging their own lodging. A list of nearby accommodation options will be provided in the Whatsapp group for convenience.
- Transportation to and from the school will be arranged by the event organizers.
- The last date to register is September 21, 2024, via Google Form.
- Teams are required to bring their own laptops and other necessary materials for their projects.
- Unfair or unethical behavior is strictly prohibited and may result in disqualification or point deductions.
- · Decisions made by the judging committee will be final and binding.



TechXplore GENERAL GUIDELINES



• Schools may register for maximum two out of the three available competition categories.

Category	Registration Fee		
Drone Face-off	3000	INR	
Battle of Bots	3000 INR		
Drone Face-off + Battle of Bots	5000	5000 INR	
N1	Stage 1	Stage 2	
SDG Project Presentation	500 INR	2500 INR	
SDG Project Presentation + Drone Face-off	3500 INR	1500 INR	
SDG Project Presentation + Battle of Bots	3500 INR	1500 INR	

SDG Project Registration

- Stage 1: Idea Submission
 - Teams participating in the SDG Project Presentation must submit their ideas by September 21, 2024 using the registration link.
- Stage 2: Selection and Grand Finale
 - The top 30 SDG ideas will be selected for the event on October 24-25, 2024.
 A confirmation email with the registration link will be sent to the registered email ID.

Registration Link

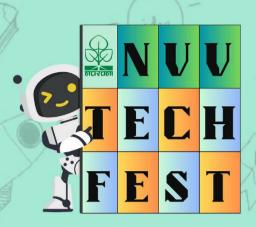
https://forms.gle/VTFiNChbCF8u3GFX7







TechXplore



Navrachana Vidyani Vidyalaya

Where STEM education turns curiosity into innovation, & dreams into achievements.





Address: Sports Complex, near Sama, Chanakyapuri Society, Raghuvir Nagar, Sahkar Nagar 4, New Sama, Vadodara, Gujarat 390024

Contact: 0265 2792285

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Call between 2PM - 4PM

Ms. Jinny Shah (8141739999) Mr. Mukesh Bind (9099235748)











