Robotics Competition

What are Robotics competitions

A sports like platform wherein participants design and build a robot to complete a set of tasks or compete with other teams to score points

Why robotics competitions

1. **Hands-on STEM Learning:** Students apply science, technology, engineering, and Math concepts in a practical, engaging way.
2. **Problem-Solving & Teamwork:** Competitions foster critical thinking, collaboration, and effective communication skills.
3. **Coding & Technology Skills:** Students master programming and robotics-related technologies, preparing them for future careers.
4. **Confidence & Resilience:** The challenges and successes of competitions build confidence, adaptability, and a willingness to take on difficult problems.

FIRST Robotics Challenge

https://www.firstinspires.org/robotics/frc

Under strict rules and limited time and resources, teams of high school students are challenged to build industrial-size robots to play a difficult field game in alliance with other teams, while also fundraising to meet their goals, designing a team “brand,” and advancing respect and appreciation for STEM within the local community

Happens at International level only

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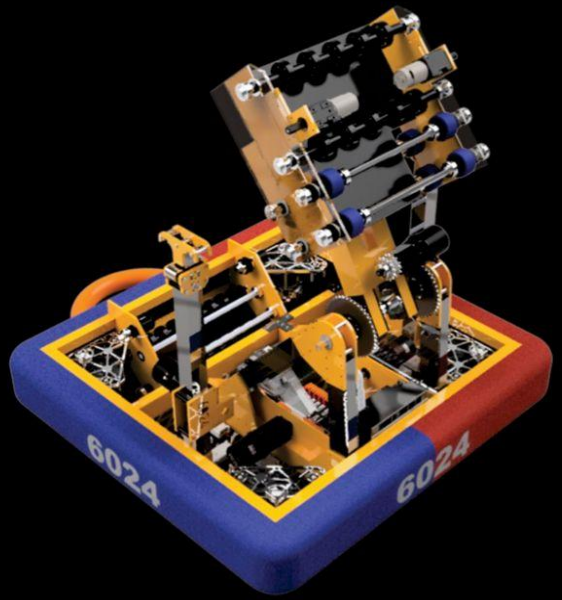
Two students from Goa Sai Pranav Gandhi and Viraj Marathe joined the Mumbai based FRC team and built a robot weighing 55 kgs to compete at Turkey to reach semi finals and win the Industrial Design award https://www.facebook.com/team6024/posts/pfbid02shVcJMqX3Wamns65bDLgAm6PKgLjfxCRYTxnizMDMoifFwkyX11Z1TCDAUsETCKLl



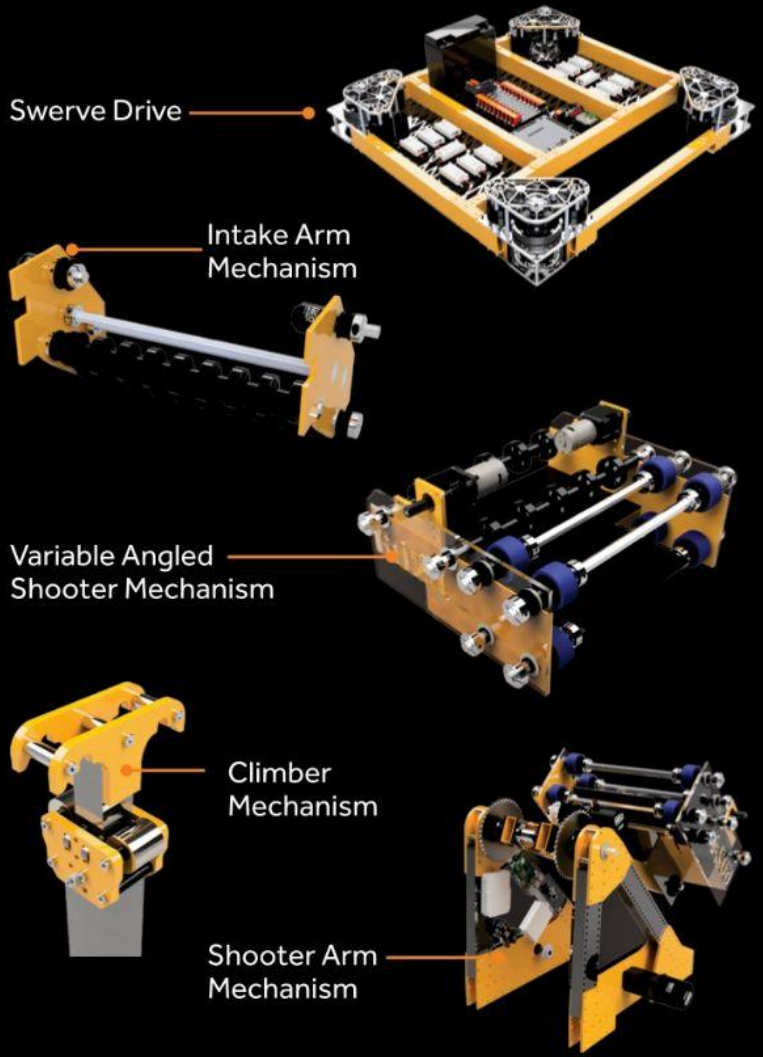
R FACTOR
TEAM 6024

Winning Hearts with
Winning Efforts!

FIRST IN SHOW presented by Qualcomm

FIRST ROBOTICS COMPETITION

CRESCENDO presented by HAAS



FIRST

FIRST Global Challenge

https://first.global

The FIRST Global Challenge is an Olympics-style, international robotics competition that takes place in a different country each year. FIRST Global invites 195+ nations to send a team to build and program a robot to compete.

Happens at the National and International level

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The selection of Team India happens with a STEM challenge and in 2023, a Goan team won the STEM challenge and represented India at Singapore and won 4 awards

https://stemeducationtrust.org/lam-research-shines-a-spotlight-on-team-india-as-part-of-first-global-challenge/

The STEM challenge for 2024 is to Design and build a robot that can walk without using electricity. https://stemeducationtrust.org/stem-challenge/

MakeX Robotics

https://makebot.in/makex

MakeX is a robotics competition platform that promotes multidisciplinary learning within the fields of science and technology. It happens for various age groups and one needs to have the Makex robot kit.

Happens at the Regional, National and International level

The Goan team of Viraj Marathe and Sai Pranav Gandhi has had National and International success in this competition as seen at https://www.thegoan.net/tg-life/%EF%BB%BFmaking-india-proud-goan-kids-play-robot(ic)s-on-international-stage/92358.html

FIRST Tech Challenge

https://www.firstinspires.org/robotics/ftc

FIRST Tech Challenge students learn to think like engineers. Teams design, build, and code robots to compete in an alliance format against other teams. Robots are built from a reusable platform, powered by Android technology and coded using blocks or Java

Happens at the National and International level

Goan teams started participating in FTC since 2022 and the 2023 National Level FTC championship happened in Goan wherein over 7 Goan teams participated

We would have Team Techinfinity from Saraswat school demonstrating their robot.

FIRST Lego League

https://www.firstlegoleague.org

The FIRST LEGO League Challenge is an international competition organized by FIRST for elementary and middle school students. Each year in August, FIRST LEGO League Challenge teams are introduced to a scientific and real-world challenge for teams to focus and research on

Happens at the Regional, National and International level

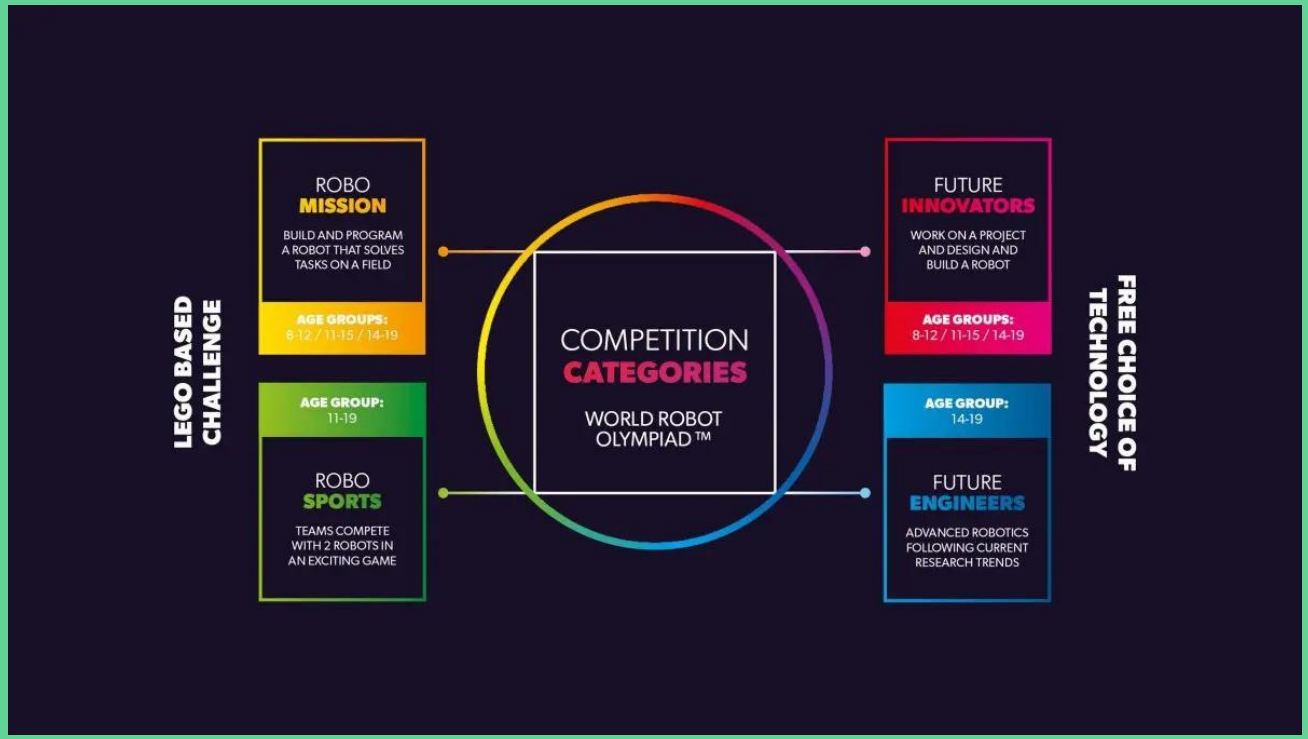
World Robot Olympiad

https://wroindia.org/

The World Robot Olympiad (WRO) is a global robotics competition for young people. First held in 2004 in Singapore, it now attracts more than 28,000 teams from more than 85 countries.
The competition consists of 4 different categories: RoboMission, RoboSports, Future Innovators, Future Engineers.

Happens at the Regional, National and International level

Happens in two tracks, one is the innovative project track and doesn't need a specific robotics kit. The second track is based on the Lego robotics kit. Goan teams have participated in the past WRO and won at Regional levels https://timesofindia.indiatimes.com/city/goa/3-goan-kids-build-robot-bag-11th-rank-in-national-contest/articleshow/87573981.cms



Codeavour

https://codeavour.org

Codeavour is an International Fest hosted annually by STEMpedia, where participants make innovative projects with hands-on learning using PictoBlox to make the world a better place.

Happens at the Regional, National and International level

HELP USHA BRING ROBOTICS GLORY TO GOA !!

FIRST GIRL FROM GOA TO QUALIFY FOR THE INTERNATIONAL ROBOTICS COMPETITION IN DUBAI

Goan students to showcase talents at Codeavour 5.0 championship in Dubai

A robotic team of Goan students has made it to the international competition Codeavour 5.0, a global AI, Coding and Robotics Championship to be held on May 4 & 5 at Dubaiim, mentor and computer teacher at Progress High School, Maya Kamat speaks to 'The Goan' why the students are looking forward to crowd-funding to raise the expenses

BHARATI PAWASKAR

The global AI, Coding and Robotics championship fosters creativity, innovation and entrepreneurial skills among students and raises awareness about Sustainable Development Goals. The competitions are held to test the budding talents from across the globe. It's a platform to present ideas and Goan students have exhibited their talent in robotics championships on national and international levels. A robotic team of students from Progress High School, Ponaji and Saraswat Vidyalaya, Mapusa, will be participating in the international competition 'Codeavour 5.0' to be held on May 4 & 5 at GEMS Dubai Ameriki an Academy.

It was a gaudalineb. The team with Ishu Kumawat, Nitin Yadav and Yuvraj Kamat from Ponaji and Harshvardhini Kamat, Codeavour 5.0 Regional on March 10 at Saraswat Vidyalaya Mapusa. Upon getting selected, the team headed for Codeavour 5.0 National event at Alpine Public School, Porvorim, Goa, New Delhi on April 6. Being selected as second runner-up the team will bid their talent in the Dubai event against 30 teams from Nepal, Nigeria, Sweden, Egypt, Indonesia, Bangladesh, Iraq, Libya, Syria and Saudi Arabia.

"Despite financial hurdles, we got selected," states Maya Kamat, computer teacher from the Progress High School. "Participation of Goan teams still have a challenge to face: securing funds for travel and accommodation. The exceptional achievement of Goa's robotics team is a testament to their resilience, a journey from setback to triumph, and a testament to excellence, dedication, and the power of teamwork.

Kamat recalls, "As soon as the Codeavour 5.0 Goa regional was declared in early March 2024, I formed the robotics team. Building upon the learning from our experience at the RoboSplash robotics camp at Chowra last year, I tried to instill a similar sense of focus and determination in our team to prepare diligently for the challenges in Track 2 in Codeavour 5.0."

However, the path to success was not without its obstacles. The initial registration fees posed a financial hurdle, which was graciously overcome by the generosity of Goan headmistress, Reshma Bhindkar. Kamat, who purchased the robotics kit for the team which was required to complete the tasks of the Track 2 competition, emphasized the need "Securing funds for travel and accommodation posed a significant challenge, which we overcame through collaborative efforts with the helping hand provided by a few well-wishers of our school, like Bhavkhandia Construction, and personal contributions."

The team also had to plan their strategy. Kamat recalls, "Given that we didn't have enough time to code and test for autonomous mode, I decided to focus on driving precision and score as much as possible manually. Our journey is a testament to the power of determination and teamwork. Despite facing numerous challenges, we emerged as a stronger and emerged stronger than ever."

Due to lack of funds and considering the travel, stay and miscellaneous expenses, the school would be able to promote only one child from the team as the competition needs only two mentors. Hence, the team is without from Progress High School and leading Kamat from Saraswat Vidyalaya, who are the drivers in their respective teams, will be heading for Dubai.

The school and the management are trying to raise funds for travel and stay in Dubai for the students and their mentors by crowd-funding, for which the donors can offer their contribution to Saraswat Education Society, HDFC Bank, Mapusa-Goa, Account number 50100678046729, IFSC code HDFC0000202.

THE GOAN Thu., 18 April 2024
epaper.thegoan.net/c/74929893
epaper.thegoan.net

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DONATE NOW!

Bank details

Saraswat Education Society, HDFC Bank, Mapusa-Goa, Account number 50100678046729, IFSC code HDFC0000202

By: 25/04/2024

"ONE GIRL'S DREAM CAN IGNITE A GENERATION. HELP HER BREAK BOUNDARIES AND INSPIRE COUNTLESS OTHERS."

Open Robotics

Organised by engineering colleges, robotics kits are not specified and participants are encouraged to build their own custom robots

Happens at the Regional level and National level