

TECHFEST 2023-24 RoboCap League

This competition for school students is based on the RoboCap League framework which is developed by alumni of IIT Kanpur, IIT Bombay, Harvard, Amazon, Intel and Microsoft. It is used

by students from 37 countries to test and benchmark their skills in Robotics.

Learn more about RoboCap League: <https://www.robocapleague.com/>

Competition Description:

Celebrating India's Chandrayaan 3 Success, the theme for the competition is "**Space Exploration and Colonization**".

- Students need to build a project in this theme and bring it to the IIT Bombay venue for demonstration
- Projects would be evaluated by the Judges
- Students should build the project from scratch and program it
- The Robotics Project implemented with the most creative and innovative ideas will have a high chance of winning
- Bonus points would be awarded for the Robotics Project Presentation

Guidelines:

1. Students can use any kit with any type of microcontroller (Arduino UNO, Arduino Nano, Arduino Mega etc.)
2. Students can either perform block-based or text-based programming
3. Maximum of 4 students in a team
4. Members of a team may be from the same school or different
5. Any number of teams can participate from one school
6. For students in grades II to XII

Eligibility:

Students who have Green RoboCap or above can participate. This restriction is to ensure a healthy competition between participants who have adequate skills to compete with each other.

You can get your Green RoboCap for Free by applying in

<https://www.robocapleague.com/apply>

and by showcasing the skills needed for that.

The criteria for Green RoboCap - Perform coding on hardware by interfacing various sensors and actuators.

How to get Green RoboCap?

Step 1: Apply here: <https://www.robocapleague.com/apply>

Step 2: Select a suitable time for the RCAT (RoboCap Assessment Test)

Step 3: Attend the test and demonstrate your skills

Step 4: Get your RoboCap Certificate

Timeline:

- Last date to earn Green RoboCap & meet eligibility: 30 November, 2023
- Zonal Event at IIT Bombay

FAQs

1. How to register?

All the team members must first apply at <https://www.robocapleague.com/apply> and attempt the RoboCap Assessment Test and upon receiving the RoboCap certificate, they'll be provided with a link to register on the Techfest website for the national finals.

2. How many people can be there in one team?

There can be 4 members in a group.

3. Is it free to register for the Robocap League?

Yes, It is free to register for Robocap League

4. Can a team have members from different schools?

Yes, a team can have members from different schools.

5. Can only one team member have the Green RoboCap to meet the eligibility?

No, all the participating team members should hold a GreenCap to be eligible for Round 2.