

# Welcome to National Robotics Competition 2023

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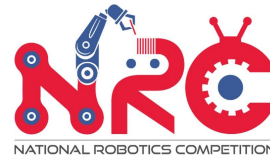


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# NRC Regular Category 2023

## Lower Primary

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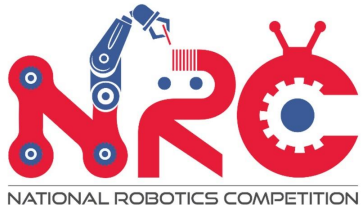


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# Agenda for the Webinar

- Frequently Asked Questions (FAQs)
- Question & Answer (Q&A) Session
- Important Dates

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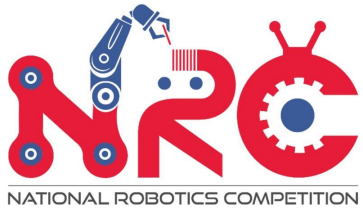


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# FAQ – Regular Category

## 1. Are we allowed to use more than 1 smart hub (controller) during the robot run?

**Ans:** No. Please refer to NRC Regular Category, General Rules, Robot Material and Regulation rule #6. "A team is allowed to bring and use only one controller when called to the playfield. The team can bring spare controllers and parts on standby into the quarantine area. If the team needs a spare controller or any other parts from outside the quarantine area (eg. from the coach or mentor), the team should contact the judge before getting the spare part."

## 2. Any surprise mission(s) during the competition?

**Ans:** Please refer to NRC Regular Category, General Rules, 5.3 Robot Run Challenge Format # 2. "If there are any Surprise Rules during the competition round, this will be conveyed to the teams by a briefing that will be conducted by the Referee in charge before the start of the Practice Time. If the surprise rule brings additional game elements, teams are not allowed to remove these elements from the playing field if they do not want to solve the surprise rule."

## 3. Can all the props be collected back to the base? If so, can the props move between bases?

**Ans:** No, the scoring elements/props are allowed to be touched by hand in the charging area/base will be the scoring elements/props already at the charging area/base before the start of the run (eg. edible seeds X3).

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# FAQ – Regular Category

4. In General Rules page 8 point 9 (for lower primary), it is said that "the robot can be controlled by any compatible device." But in page 13 point 1, it is said that "no laptops should be brought to the team area." If the students want to control the robot using a laptop, can they still bring their laptops to the team area?

Ans: Yes. For the lower Primary category, laptop will be allowed to control the robot during non-autonomous mode. During autonomous mode, participants/students will be asked to place the controller on a designated spot or container possessed by the judge/official.

5. Are we allowed to interchange the ports of the motors and sensors on a single robot model at the charging stations during the robot attempt?

Ans: Yes, teams will be allowed to change the robot attachments/sensors at the charging stations during the robot attempt.

6. If the students use a ruler (made of Lego) to determine where they want their robot to start in the charging area, will it be allowed?

Ans: Yes. Please refer to NRC, Regular Category, General Rules, Robot Material and Regulation rule #5. "If a team wants to use any equipment to align in the start area, this equipment must be built out of LEGO® materials, it must fit into maximum robot dimensions (i.e. included in the 250 mm x 250 mm x 250 mm dimensions)."

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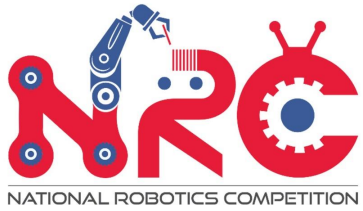


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# FAQ – Regular Category

7. After the students finish the mission (e.g planting edible seeds), can the students remove the previous mission pieces (e.g the edible seeds) before continuing to the next mission?

Ans: **No.** Some mission scores will be awarded based on the "final" position of the scoring elements after the end of the challenge run. Participants are not allowed to touch/manipulate the scoring elements in the competition field during a run.

8. The rule mentions that teams are not allowed to touch the robot when the robot is moving during the robot run. Are teams allowed to use their hands to load the game objects onto their robots when the robot stops in front of the game object? If not allowed, does it mean that the robot needs to have ways to pick up and put down the game objects at the respective areas without the use of hands?

Ans: **No.** While the robot is out of the charging area and attempting any of the missions, the participants are not allowed to use their hands to aid the robot in any way in accomplishing any of the missions or tasks.

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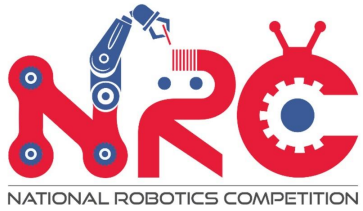


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# FAQ – Regular Category

9. Can the students stack the edible seeds together when transporting them?

Ans: No. Attaching/combining/stacking the edible seeds props when transporting them is not allowed. Any form of combining/attaching/stacking of the LEGO® pieces is not allowed.

10. Can we place anything inside the charging station aside from the robot and mission 1 seedlings?

Ans: No, nothing can be placed inside the charging stations except pre-approved LEGO® elements like the seedlings and team mascot. Robot alignment equipment made of LEGO® must be removed once the purpose of the equipment has been achieved.

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# Question & Answer

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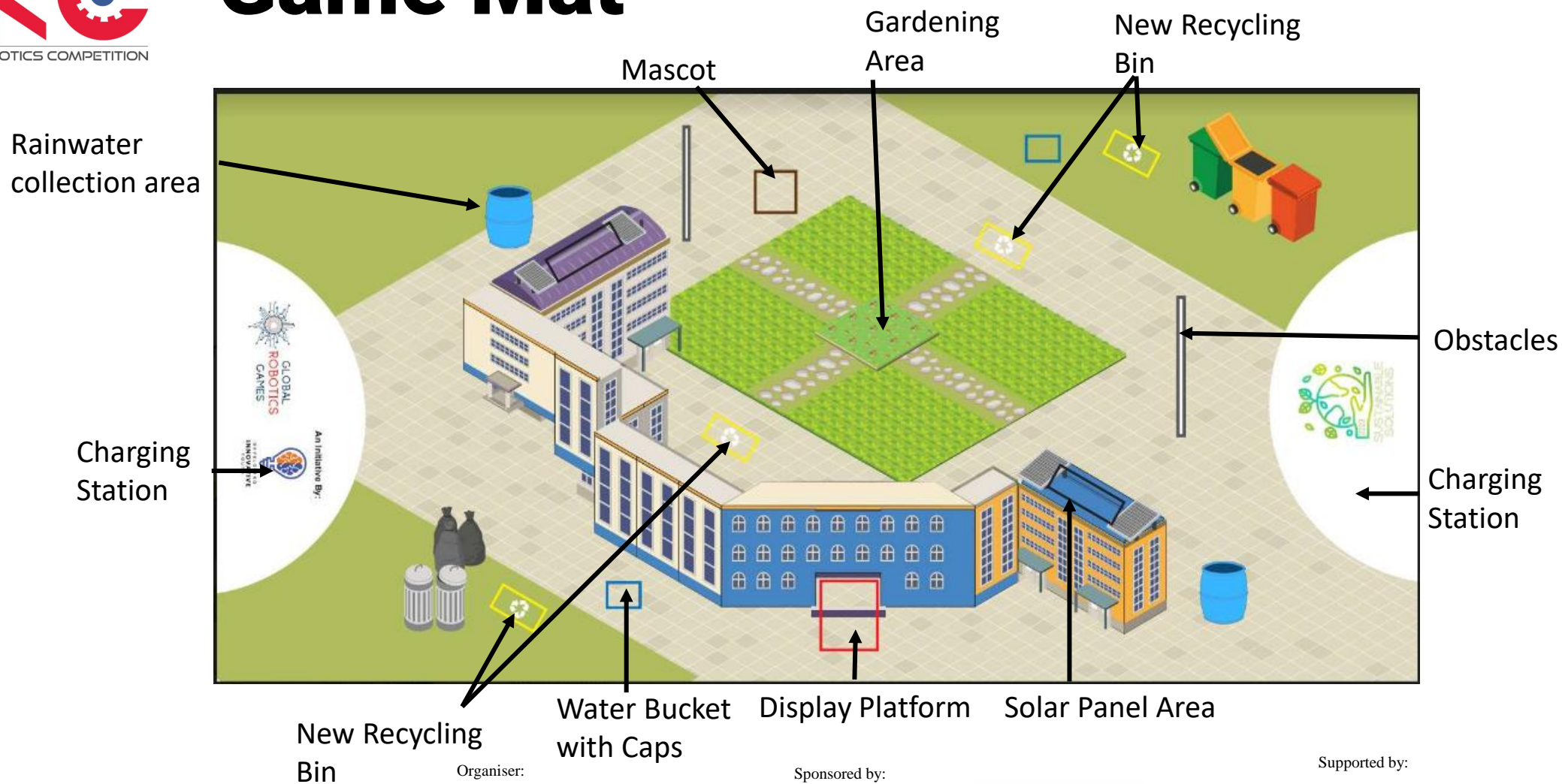


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# Game Mat



New Recycling Bin

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# Important Dates

	Dates	Time	Remarks
Trial Playfield	12 <sup>th</sup> June – 4 <sup>th</sup> August	9am – 430pm	
Onsite Presentation	21 <sup>st</sup> August 2023	9am – 5pm	Subjected to changes
Onsite Competition	4 <sup>th</sup> September 2023	9am – 5pm	
Finals & Awards Ceremony	9 <sup>th</sup> September 2023	9am – 5pm	

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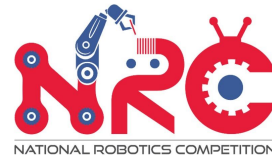


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For any queries

Email

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