

ABU Robocon 2022 Delhi, India FAQ2

Please read the rule book carefully before sending any questions. Please cooperate with us for smooth operation in a limited time.

[The FAQ# is in continuation to those appeared in FAQ1. For example, 1-3 appeared in FAQ1 for “Rulebook Ref No. 1”. In this FAQ2, the number starts with 1-4. Similarly, 1.5-6 is after 1.5-5 of FAQ1 referring to “Rulebook Ref No. 1.5”]

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1. Terms and Conditions

FAQ #	Question	Answer
1-4	In the rulebook, point 1.2 states that each team must build two robots, namely, Robot 1 and Robot 2. The robots can be manual or automatic. Our query is that are we allowed to manufacture the robots R1 as automatic and R2 as manual "	Yes, it is allowed.
1-5	The rulebook mentions that "The robots are not allowed to suction or to stick on the game field". Does that restrict the teams from using any sort of suction for picking mechanisms?	It is allowed in Picking mechanisms.
1.5-6	Is it air or nitrogen filled in the ball?	Normal air will be filled inside the Ball.
1.17-4	Is the lagori base fixed to the game field?	Yes, it is fixed
1.17-5	Weight of lagori. How can we calculate it?	Use the formula as $\text{volume} \times \text{density} = \text{weight}$.
1.17-6	What will be the surface roughness of the lagori base, is it polished?	It will be one mm thick white smooth Sunmica.
1.17-7	Will the top and bottom surface of lagoris which is white in colour as mentioned in the rulebook will be painted or white paper?	It will be made of white PU foam whose cylindrical surface is coloured. The bottom and top of the disc are not coloured.
1.17-8	Is the disc material porous in nature?	It is called PU Foam. Density is 14 Kg/m^3 .
1.17-9	Note that "top" and "bottom" surfaces of each disc are uncoated. What does uncoated mean? Is the surface of lagori smooth or is there any material coated on it? If yes then which material is coated on it?	Disc's cylindrical surface is coloured using spray paint. The bottom and top of the disc are not coloured.

2.Game

2.1 Game Procedure

FAQ #	Question	Answer
2.1-9	When a team becomes a Seeker, Can seeker R2 have a mechanism to parry or avoid the ball thrown by the hitter team?	As long as it follows all the Rules.
2.1-10	Can Hitter R2 pass the ball to Hitter R1 by throwing it from the ball rack area? If it is allowed, if Hitter R1 Could not receive the ball and ball dropped on the field, will it be considered as a foul or any disqualification?	If it disturbs any gameplay of the opponent team, it will be considered a violation.
2.1-11	If the ball hits the BOH plate and then hits the lagori pile, is it a violation?	See Rulebook 2.2.17, please.
2.1-12	Are the orthogonal projection of the robot R1 above the penalty zone allowed as they are not in direct contact with the ground?	No, it is not allowed.
2.1-13	As mentioned in 2.1.16 rule, teams will be given a setting time of one minute, So are teams allowed to change batteries over bots OR add pressure into pneumatic reservoirs during this one minute?	Yes, it is allowed.

3. Robots

FAQ #	Question	Answer
3-2	Rule book point 3.4.4 states that both for wireless or cable operation, the team members are not allowed to enter the Lagori Area and Ball Areas, but does this imply that the operator can enter in their respective area (Blue or Red area) and start zones?	Yes, operators can enter their respective colour areas.

7. Teams

FAQ #	Question	Answer
7-2	In any team can more than three members (approx 9 to 10 members) participate in making a robot?	Yes, but only three can enter the field and three others can help them as crew members.

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