




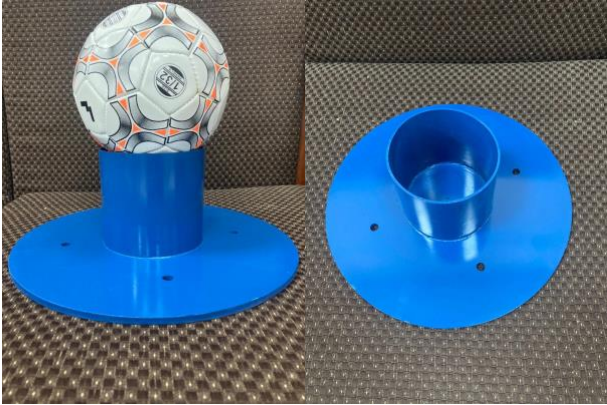
ABU Robocon 2022 Delhi, India FAQ1

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

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1. Terms and Conditions

FAQ #	Question	Answer
1-1	<p>What are the colours of Seeker, Hitter and 'Ball on Head' balls? Are they Black and white or are they specific to the team colour (Red and Blue) as shown in Theme video? Please specify the colours of each ball.</p>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 10px;">  Seeker Ball </div> <div style="display: flex; align-items: center; margin-bottom: 10px;">  Hitter Ball </div> <div style="display: flex; align-items: center;">  Ball on Head </div> <p style="margin-top: 10px;">Wasan Mini Football Size 1 Colours Orange, Green & White</p> </div>
1-2	<p>What should be the Pressure of air filled inside the Hitter and Seeker ball ?</p>	<p>6 PSI (gauge), about 0.48 Bar (gauge)</p>
1-3	<p>Can Seeker R1 be the Hitter R2 in the second round and vice-versa?</p>	<p>No, it is not allowed.</p>
1.5-1	<p>Can the head plate be attached to a movable platform? It will be at the top of the bot and comply with all other rules.</p>	<p>Yes (February 9, 2022 correction) The plate should be fixed with the robot i.e. no relative motion between the robot and the plate is permissible.</p>

1.5-2	Could you please specify the material of the plate and pipe individually?	Both are made of PVC (Polyvinyl Chloride). For uniformity, it will be provided to each team during the ABU Robocon 2022.
1.5-3	The upper surface of the plate consists of the pipe or only the plate of 6mm thickness?	Only a plate of 6 mm thickness. Pipe is placed on it.
1.5-4	As mentioned in the game field book, Ball on head (BH) is made from a plate and a pipe, so what is the specific material of the components? Can whole BH be made just from MS or PVC? Or is it an MS plate and a PVC pipe?	For ABU Robocon 2022, BOH will be provided by organizers. It will be made of PVC.
1.5-5	What is the colour of the Plate on Seeker R2?	 <p>The Color of the plate is Blue.</p>
1.13-1	The Rulebook 1.13 mentions that “Team members will load the Seeker Balls to the Seeker R1 during the setting time. Up to 3 balls can be loaded”. So can we load 1 seeker ball in Seeker R1 and remaining 2 seeker balls in Seeker R2, which, later Seeker R2 will pass it to Seeker R1.?	No, it is not allowed.

1.17-1	Is the box under the Lagori pile hollow or is it completely 200mm thick plywood?	It is hollow. It is made from 12 mm thick Plywood with Sunmica sheets pasted on the outer surfaces.
1.17-2	Is the wooden box on which is the LAGORI is Stacked up fixed?	The base is fixed on the field.
1.17-3	What is the type of paint used on Lagori discs	It is spray paint of respective colour.
1.20-1	Can the seeker robot go in the opponent team's area if one of the lagori discs fall in their area?	Not limited to the area of the opponent team, if a Lagori disc which fell and rolled out of the Lagori Area due to Lagori Break, the referee will return the Lagori disc to the inside of the Lagori Area. The returned Lagori disc can be used by the seeker for the Lagori Pile.
1.20-2	Can Seeker R2 pile Lagori area while staying in Seeker Zone? Can seeker R2 keep Ball on Head in Seeker area while Piling Lagori?	No. Seeker R2 should be completely in the Lagori Area while piling Lagori.

2.Game

2.1 Game Procedure

FAQ #	Question	Answer
2.1-1	What will happen if the ball on the head of the robot falls due to the movement of the robot?	There will be a compulsory Retry. Referee will put it back.
2.1-2	Consider the situation During the Break shot time if Seeker R1 breaks top 3 LAGORI discs and while piling the discs back (after break shot time), Seeker R2 by mistakenly breaks other 2 lagori discs. Then if Seeker R2 piles all the 5	The score will be given only for the top 3 Lagori discs.

	lagori discs, how much total points will the team get. i.e., Points of piling only top 3 Lagori discs or points of piling 5 Lagori Discs.	
2.1-3	After Break Shot time, while Piling, Seeker R2 piles bottom 2 Lagori discs in proper order but other 3 Lagori Discs out of order. How many points will be awarded to the team?	The score will be given only for the bottom 2 Lagori discs.
2.1-4	To pick the Hitter ball from the Ball area. Can the Hitter Robots move through the Lagori area from their respective start zones?	No, it is not allowed.
2.1-5	Can Seeker R2 pick the thrown/used Seeker balls to clear its path, using specific mechanism ?	Yes, it can but it should not damage the opponent team's robots and break any other game rules.
2.1-6	From rule number 1.2, can we pile lagori with fewer disks in decreasing order? As if we can pile lagori discs in the following order as 4-3-2-1 or 3-2-1 or 5-4-3, with 10 points of each lagori piled.	See Fig. 4 for the piling style.
2.1-7	Looking at page 7, 2.1.14, it says "Hitter R2 must displace the Ball on Head directly using a Hitter Ball". From the context I think it is not "Hitter R2" but "Hitter R1".	Sorry for the mistake. It will be "Hitter R1 must ..."
2.1-8	The hitter will be penalized in which it cannot restart for 15 sec. During this time can the Seeker Robot perform its tasks (after resetting Ball on Head) or wait for complete 15 seconds ?	Seeker does not have to wait for 15 seconds.

2.2 Task of Robots

FAQ #	Question	Answer
2.2-1	While picking the balls from the Ball rack, can the Hitter robot touch the Ball Rack?	Yes, it can without breaking any other game rules.
2.2-2	After the Break shot time, Can Seeker R1 assist Seeker R2 to pile the LAGORI discs by moving inside the LAGORI AREA or can Seeker R1 intercept the hitter balls to protect the ball on head?	Neither case is allowed. Seeker R1 cannot move out of the Start Zone.
2.2-3	In the Rulebook 2.2.22, can the Hitter R2 directly throw the Hitter balls from Ball Area to Hitter R1 to pass the balls?	Yes, it is allowed, as long as it does not affect the opponent team's play.
2.2-4	Can the Hitter R1 hit the ball on the head of Seeker R2 when Seeker R2 is in their respective team's zone?	Yes, it can. Hitter can get into action as soon as breakshot time is over.
2.2-5	Can SEEKER R2 use pressurized air to deflect the path of the ball thrown by HITTER R1 to defend the ball on SEEKER R2?	No, it is not allowed.
2.2-6	Is collecting multiple lagoris at the same time by seeker R2 allowed ?	As long as it follows all the Rules.
2.2-7	Can Robot 2 collect all 5 Lagori and piling up at once on a Lagori disc? Can Robot 2 piling up all 5 Lagori inside the robot then put all 5 Lagori on the Lagori disc at once?	As long as it follows all the Rules.
2.2-8	Can all the 3 balls be picked up at once from the rack?	It is allowed as long as the robot complies with the rules.
2.2-9	Can the Hitter R1 hit the Ball on Head by bouncing the hitter ball on the ground?	Not allowed. The ball that touches the floor once will be invalid, both when passing and when R1 throws.

2.2-10	The rulebook 2.2.18 says “If the Hitter Ball thrown by Hitter R1 hits any part other than the plate and the pipe of Seeker R2 and the Ball on Head is displaced, the Hitter will be forced to retry and cannot restart for 15 seconds” but is it allowed for Seeker to defend BOH using Lagori discs?	If the Hitter Ball thrown by the Hitter hits a Lagori disc in orbit towards the BOH, pipe, or plate, resulting in removing BOH, the BOH is considered valid. Also, if the Hitter Ball thrown by the Hitter hits a Lagori disc in orbit toward the BOH, pipe, or plate and the Lagori disc goes out of the Lagori Area, the Lagori disc cannot be used.
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3. Robots

3.6 Power Source of Robots

FAQ #	Question	Answer
3.6-1	Can we use multiple batteries on a single robot? Can RC controllers be used? Can a laptop be kept on the bot or can a laptop be used as a controller?	As long as rules are abided by.

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