



Rules of Manual Robot Competition (KTIS Logistic Bot)

ASEAN Undergraduate Level (not higher than bachelor's degree)

The competition is a hands-on robot which moves with wheels. The mission is to transport items from shopping centers to different cities in the ASEAN region. The robot must collect objects in the field, controls the robot with a wired remote control and conveys to the designated area. Whoever gets more total points wins the competition, or a contestant who completes the mission as the first rank wins the competition

Robot Requirements

1. The robot must not exceed 300 mm in length, 200 mm in width, and 240 mm in height.

2. The robot can use 2 motors for movement, and up to 3 motors for clamping or driving the mechanics. Collecting objects must be the nature of the Keeper only.

3. The movement of the robot must be a wheel movement under the control of a wired or wireless remote control. If using a wired remote, the length of the wire is not fixed, but the wire must be installed high above the ground and not touching it during the entire period of competition

Contestants are not allowed to go onto the competition field and allow them to move within their boundaries own side only.

4. Contestants must prepare the robot's power supply for use in the competition themselves, there is no limit on the type, number of power supplies and voltages.

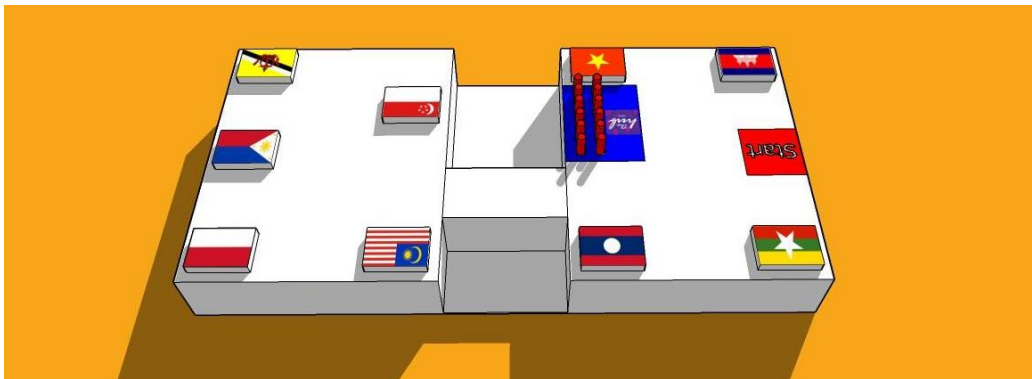
5. Contestants can assemble the robot in advance.

6. There is no limit on the type of materials used to assemble the robot.

Competition Court

The competition court is a rectangular shape, size 150x120 cm., raised about 30 cm. from the ground. The court is divided into 2 sides. The connecting part has a bridge placed between the two sides of the court, 30 cm. wide and 60 cm. long, being a horizontal runway, objects used to move is 12 cans of canned coffee

Space to place objects in different countries, size 20 cm. X 30 cm. X 5 cm., 9 points in total.



Rules

1. The competition time is 3 minutes.
2. Contestants must place the robot at their own starting point (Start Point).
3. Contestants control robots to carry objects to be transported to place in the designated area, no limit on the methods of movement. The objects must be in that color zone by not placing more than 2 cans per point.
4. In case the robot does not leave the starting point or already left the starting point, but it's unable to complete the assigned mission considered to be against the rules being eliminated from that round
5. Contestants can request a retry at any time of the competition. The score obtained before the retry request will be recorded, but the timer will not stop and the contestant will have to bring the robot to start at the beginning of the retry

robot. In case of stopping the competition, the score will be recorded immediately and the time will be considered a full 3 minutes.

6. Score Counting

The objects are in the object placement area. Score calculation as follows:

- Myanmar, 5 points each
- Laos, 5 points each
- Vietnam, 5 points each
- Cambodia, 5 points each
- Malaysia, 10 points each
- Singapore, 15 points each
- Indonesia, 20 points each
- The Philippines, 25 points each
- Brunei, 30 points each

Each country can place no more than 2 objects.

7. Throughout the competition, all parts of the robot cannot be changed or modified during the competition.

8. Any situation or event that occurs during the competition that not specified in the rules to be at the discretion of the Board of Directors

9. For other actions not specified in the rules. The referees will be the judges and considered that the decision of the committee is final