

# PICK AND PLACE

## ABOUT THE EVENT -

Pick and Place is a robotic event in which the robot has to carry particular objects using arm mechanism to the given destination.

## OBJECTIVE -

To design and build a wired/wireless manually controlled robot having the ability to lift objects from one place to another using arm mechanism. This task will be performed on an arena which will be designed like bridge.

## BOT SPECIFICATIONS -

1. Bot size should not exceed 30cmX30cmX30cm.
2. The weight of the bot should not exceed 3 kg.
3. The bot can be wired/wireless , manually controlled.
4. The battery should not be of more than 12V capacity.
5. The bot must have on-board power supply.
6. The bot should be controlled using a single wired remote in case of wired and by a single device or wireless remote in case of wireless bot.

## TEAM SPECIFICATION -

1. The maximum number of members in a team should not exceed 5.
2. Students from different colleges can be a part of single team.
3. An individual cannot be a part of more than one team.

# COMPETITION FORMAT -

The event will be conducted in two phases.

- 1.Transporter
- 2.Ascender

## TRANSPORTER -

1. Transporter is a qualifier round in which the bot has to travel on a plane surfaced bridge with the object (size and shape may vary) held in arm and transport it to the destination .
2. The shipment of the objects will carry a constant point and there will be negative markings in different situations.
3. The bot should not cause any damage to the arena. If any kind of damage is done to arena then negative marks will be given to the team.

## ASCENDER -

1. Ascender is the final round of pick and place in which the bot has to climb the bridge of different elevations with the object held in the arm.
2. There will be specified location for different colored or shaped objects in which the object has to be placed at the required destination with the help of bot.
3. Touching the bot in the middle of the task will result in penalty.

## NOTE -

In case of any dispute or ambiguity, event coordinator's decision will be final. The organizers reserve the rights to change any or all of the above rules and scoring pattern.

## TEAM -

### COORDINATOR

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