

# **BITS2BYTES 2018**

## **TO INFINITY & BEYOND 22-23 FEB**

### **Robo Soccer**

Football is like life- it requires perseverance, self-denial, hard work, sacrifice, dedication and respect for authority.  
----- Vince Lombardi.

As the name itself suggests, the event deals with manual robotics in which you design a manually controlled bot which is capable of playing football. It's time for some exciting soccer action, so get ready for goal kicks, penalties & lots more.

#### **EVENT RULES:**

1. The maximum no. of participants allowed per team is 4.
2. Damage to arena will lead to disqualification.
3. The event is divided into 2 rounds: Prelims & Finals. Both the rounds are knockout rounds.
4. Prelims will be a simple game of football. Each team will be allotted 4 minutes.
5. Obstacles will be present in Round 1. Penalty points will be deducted if the bot touches the obstacles.
6. Final round will be a faceoff between two teams. The time allotted is 5 minutes for this round.
7. Head on collision or an effort to damage the opponent's bot will result in a foul or in worst case lead to disqualification.
8. Points will be deducted in case of fouls.
9. In case of a tie, penalty shootout will take place. Each team will be given 3 chances.

#### **SCORES:**

1. For each goal 50 points will be awarded.
2. Touching an obstacle carries a negative point of 20.
3. Goals scored from half line or before will be awarded 30 points.
4. In case of a foul, 40 points will be deducted.

#### **BOT SPECIFICATIONS:**

1. Each bot must fit inside a box of 30x30x30 cms.
2. The bot shouldn't exceed 3 kgs.
3. The machine should be manually controlled.

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4. Gripping or grabbing the ball is not allowed. You may push the ball to the opponent's area.
5. No Lego kits or IC Engines are allowed.
6. The bot must not use any kind of sharp or pointed objects that may damage the arena and the opponent's bot.

### ARENA SPECIFICATIONS:

1. The arena is in form of a rectangle of dimension 9x6 feet.
2. The goal posts will be of length 1.5 feet each.
3. Standard plastic ball shall be used.

