



# PSG COLLEGE OF TECHNOLOGY

## IEEE STUDENTS CHAPTER 12951



### **EVENT NAME: BOTCLAIR**

### **SPECIFICATIONS:**

1. Structure:
  - Length: 150-250 mm
  - Breadth (Width): 100-150 mm
  - Height: 70-100 mm
  - Weight: 750-1500 gram
2. BOT can be also used:
  - Boe-bot
  - Shield bot/sumo bot
3. ROBOT Control:
  - Autonomous/Automatic (\*no remote control devices\*)
4. Combination of sensor can be used:
  - Ultrasonic distance sensor
  - Proximity sensor
  - Whisker sensor
  - Color sensors
  - IR emitter / receiver object detecting sensor
5. Motors can be used:
  - Rotary DC servo motors (DC voltage: 9-12V)
  - High speed Servo motor
6. Arduino based PCB can be used

7. Obstacles:

- Height: 20-40 mm
- Weight: 50-100 gram
- Length: 10-20 mm
- Breadth: 10-20 mm
- It can be bottles, cube blocks etc.

8. Plow attachment at the front of the bot:

- It can be made of any material that does not damage the table or the objects.
- It cannot be motorized.

9. Fields can be:

- Rectangle, Circle in shape
- Length: 200 cm
- Breadth: 150 cm
- Radius: 70 cm