



**Shri Guru Gobind Singhji Institute of Engineering and Technology**

Vishnupuri, Nanded (Maharashtra State) INDIA PIN 431606

Government Aided Autonomous Institute DTE Code: 2020

NAAC Accredited institute GRADE B++, CGPA 2.91 (2020-2025)

**Vision Statement: Education of Human Power for Technological Excellence**



## PICK & PLACE

### 1. ROBOT SPECIFICATIONS

1. **Dimensions:** Maximum **30x30x30 cm** (LxWxH) in static condition.
2. **Weight:** Maximum **5 kg** (including battery).
3. **Power Supply:** Maximum operating voltage **12V DC**.
4. **Control System:** The robot can be wired or wireless. If wireless, teams must ensure interference-free communication.
5. **Gripping Mechanism:** The robot must have a gripping mechanism suitable for picking up objects of varying shapes and sizes.
6. **Movement:** The robot must be able to navigate the arena and place objects in designated locations.
7. **Safety:** Robots must not have sharp edges, flame-based mechanisms, or components that can cause harm to participants or the arena.

### 2. COMPETITION ARENA

1. **Arena Size:** The competition arena will be approximately **5m x 5m** with designated zones for object placement.
2. **Object Specifications:** Objects will vary in size and shape, and they may include cylindrical, cubical, or spherical elements.
3. **Placement Zones:** Marked areas will be provided for object placement, each assigned different points based on difficulty.

### 3. GAMEPLAY RULES

The event will have **three different rounds**, each with distinct scoring patterns and elimination criteria.

1. Each team gets **3 minutes** to complete the task in every round.
2. The winning criteria will be changed for all three rounds along with elimination criteria.

## 4. TEAM STRUCTURE

1. Each team can have **1 to 3 members**.
2. One member must be designated as the team captain.
3. Teams must submit a **technical report** describing their robot's mechanism and working principles before the event.

## 5. GENERAL RULES & DISQUALIFICATION

1. Registered teams and spot registrations are allowed to participate.
2. **Multiple entries** of the same bot will be allowed.
3. Any team found violating the specifications will be **disqualified**.
4. The decision of the judges and event coordinators will be **final and binding**.
5. Teams must adhere to safety guidelines.
6. Any robot deemed unsafe will not be allowed to participate.