



## **Hanbee Robots Battle**

### **What is Hanbee Robots Battle?**

Hanbee Robots Battle is a robot combat competition where remotely controlled robots, designed and built by teams, fight each other in an arena.

### **History of Hanbee Robots Battle:**

Inspired by the popular BattleBots competition, Hanbee Robotics Combat was founded to promote innovation, creativity, and STEM education.

### **Key Components:**

1. Robots: Custom-built, remotely controlled machines designed for combat.
2. Arena: An enclosed space where battles take place.
3. Teams: Builders, designers, and operators of the robots.
4. Judges: Evaluate battles and declare winners.

### **Competition Format:**

1. Tournaments: Single-elimination brackets.
2. Matches: 3 minute battles.
3. Weight Classes: Divided into featherweight, lightweight, middleweight, heavyweight, and super heavyweight.

### **Robot Design Considerations:**

1. Durability
2. Speed
3. Agility
4. Armor
5. Weapons (e.g., saws, claws, hammers)
6. Power sources (e.g., electric, pneumatic)

**Hanbee Robots Battle Events:**

1. Hanbee Bots Championship
2. Regional Tournaments
3. Exhibition Matches

**Rules and Regulations:**

1. Weight limits: Robots must weigh within designated limits.
2. Size restrictions: Robots must fit within designated size limits.
3. Safety features: Robots must have safety features to prevent injury.
4. Match duration: Battles last 3 minutes.

**Prizes and Awards:**

1. Championship title
2. Trophy
3. Cash prizes
4. Sponsorship opportunities
5. **Work opportunities**

**Hanbee Robotics Combat Community:**

1. Forum: Discuss robot design, strategy, and competition.
2. Social media: Follow Hanbee.in on Youtube and Instagram.
3. Local meetups: Attend regional meetups and events.

**Getting Involved:**

1. Build your own robot
2. Join a local robotics club or team
3. Attend Hanbee Robotics Combat events
4. Participate in online forums and discussions



**\*Here are the developed rules and conditions for Hanbee Battle Bots:**

**Pre-Match Rules:**

1. Robot Inspection: All robots must undergo a thorough inspection by the judges before the match to ensure compliance with the rules.
2. Weight Classes: Robots are divided into three weight classes: Lightweight (Up to 5 kg), Middleweight (5-10 kg), and Heavyweight (Above 10 kg).
3. Power Source: Robots must be powered by electric motors only.
4. Match Schedule: The match schedule will be announced before the competition, and teams must be ready to compete at the scheduled time.

**Match Rules:**

1. Match Duration: Each match will last for 3 minutes.
2. Arena Specifications
  - Arena Size: The arena size is 4m x 4m (13.1ft x 13.1ft).
  - Arena Surface: The arena surface is smooth, flat, and slip-resistant.
  - Obstacles: The arena may include obstacles, such as ramps, tunnels, or other challenges.
3. Starting Position: Robots will start from opposite corners of the arena.
4. Gameplay: Robots will engage in a one-on-one battle, with the objective of knocking out or disabling the opponent's robot.
5. Scoring: Points will be awarded based on the outcome of the match:
  - Knockout: 5 points
  - Out of the arena: 3 points
  - Disablement: 2 points
  - Time-out: 1 point (if a robot is unable to move or respond for 30 seconds)
6. Penalties: Penalties will be given for unsportsmanlike conduct, including:
  1. Intentional damage to the arena or opponent's robot
  2. Interference with the opponent's robot or the match officials
  3. Failure to comply with the match officials' instructions



### **Robot Specifications:**

1. Size: Robots must fit within a under prism of 60 cm x 60 cm x 60 cm.
2. Weight: Robots must comply with the weight class rules.
3. Power Source: Robots must use a safe and approved power source, such as batteries or electric motors.
4. Safety Features: Robots must have safety features to prevent injury to humans, including:
  1. Protective covers for sharp edges or points
  2. Emergency shutdown systems
  3. Compliance with safety standards for electrical and mechanical components

### **Winning Conditions**

1. Knockout: A robot is considered knocked out if it is unable to move or respond for 30 seconds.
2. Disablement: A robot is considered disabled if it is unable to move or respond due to damage or malfunction.
3. Time-out: If a robot is unable to move or respond for 30 seconds, it will be considered timed out.

### **Post-Match Rules**

1. Robot Removal: Robots must be removed from the arena immediately after the match.
2. Damage Assessment: Robots will be inspected for damage after the match, and any necessary repairs must be made before the next match.

### **Disqualification**

1. Unsportsmanlike Conduct: Teams may be disqualified for unsportsmanlike conduct, including intentional damage to the arena or opponent's robot.
2. Rule Violations: Teams may be disqualified for violating the rules, including using unauthorized components or exceeding the weight limit.

### **Appeals**

1. Protest: Teams may protest a match result or decision by submitting a written appeal to the judges within 30 minutes of the match.
2. Judges' Decision: The judges' decision is final, and their ruling will be binding.



### **Additional Rules**

1. Team Members: Each team can have a maximum of 2-5 members.
2. Robot Modifications: Robots can be modified or repaired between matches, but must comply with the robot specifications.
3. Match Interruptions: If a match is interrupted due to technical issues or other unforeseen circumstances, the match will be restarted from the beginning.

By following these rules and conditions, Hanbee Battle Bots aims to provide a safe, exciting, and competitive environment for teams to showcase their robotics skills.\*

### **Contact Us Today**

Reach out for inquiries about our robot battle tournaments, registration plans, and STEM education programs. We're here to assist you!

**EMAIL: [info@hanbee.in](mailto:info@hanbee.in)**