

# TITAN TUSSLE

## ROBO SUMO CHAMPIONSHIP

### OFFICIAL RULE BOOK

## 1. EVENT OVERVIEW

Event Name	Robo Sumo Championship
Cluster	Maker Space
Event Type	Robotics Combat Event
Mode	Offline
Team Size	4 Members per Team
Duration	11:00 AM – 3:00 PM

## 2. EVENT OBJECTIVE

Participants must design and compete with custom-built sumo robots across multiple stages. Robots will battle in themed arenas with the following objectives:

- Pushing opponents out of the arena
- Knocking down flags
- Free-for-all survival
- Zone domination

*Robots must demonstrate power, control, durability, and strategy to advance through each stage.*

## 3. DESIGN & TECHNICAL SPECIFICATIONS

### 3.1 Mechanical Rules

- Maximum Dimensions: 30 cm × 30 cm × 30 cm
- Maximum Weight: 5 kg
- Only battery-powered robots are permitted
- Allowed components: Pushers, wedges, plates, sensors
- Prohibited components:
  - Blades or cutting tools

- Liquid-based weapons
- Nets, glue, or entanglement devices
- Explosives or flame-based systems

### **3.2 Electrical Rules**

- Maximum operating voltage: 24V
- Battery must be properly insulated and secured
- No exposed wiring is permitted

### **3.3 Control System**

- Both wired and wireless controllers are permitted
- All robots must be remotely controlled

## **4. GENERAL GUIDELINES**

- Teams must report 5 minutes before their scheduled match.
- All robots must pass a technical inspection before each round.
- No modifications are allowed during a match; repairs between matches are permitted.
- Unsafe or unethical behaviour will result in immediate disqualification.
- Organizers reserve the right to recheck robot legality at any time.

## **5. SAFETY RULES**

- Robots must not be touched during a match unless explicitly permitted by a referee.
- Any sparks, smoke, or dangerous mechanical failure will result in an immediate match stoppage.
- All spectators must remain behind designated barricades at all times.
- Robots must not cause damage to the arena or surrounding infrastructure.

## **6. EVENT FORMAT — TITAN'S TUSSLE**

### **STAGE 1 PRELIMS**

*Quantum Quarrel*

<b>Format</b>	Round Robin
<b>Theme</b>	Normal Sumo Push
<b>Goal</b>	Push the opponent out of the dohyo
<b>Qualifiers</b>	Top 2 teams from each pool advance

### **STAGE 2 PRE-QUARTERS**

*Edge of the Ring*

<b>Format</b>	Round Robin
<b>Theme</b>	Capture the Flag Showdown
<b>Goal</b>	Knock down the opponent's flag
<b>Qualifiers</b>	Top 1 team from each pool advances to the Quarters

STAGE 3 **QUARTERFINALS***Push Panic*

<b>Format</b>	Knockouts
<b>Theme</b>	Free-for-All
<b>Goal</b>	Survive until the last robot standing
<b>Qualifiers</b>	Winners advance to the Semi-Finals

STAGE 4 **SEMIFINALS***Sumo Surge*

<b>Format</b>	Knockouts
<b>Theme</b>	Zone Domination
<b>Goal</b>	Capture and hold zones that appear in the dohyo. Zones change periodically; the team holding zones for the longest cumulative duration wins.
<b>Qualifiers</b>	Winners advance to the Finals

STAGE 5 **FINALS***Last Bot Standing*

<b>Format</b>	Best of 3
<b>Theme</b>	Unknown (revealed on the day of the event)
<b>Goal</b>	Push Out — last robot in the ring wins the match
<b>Winner</b>	Crowned Titan Tussle Champion 🏆

**7. JUDGING CRITERIA****Criteria****Weight**

Combat Performance	50%
Control & Stability	20%
Strategy & Efficiency	20%
Technical Design	5%
Safety	5%
<b>Total</b>	<b>100%</b>

## 8. SCORING OVERVIEW




Criteria	Weight
Performance / Objectives	50 pts
Stability & Control	20 pts
Build Quality	10 pts
Efficiency	10 pts
Safety	10 pts
<b>Total</b>	<b>100 pts</b>

## 9. PENALTIES & DISQUALIFICATIONS

Violation	Consequence
Unsafe robot	<b>Immediate disqualification</b>
Damaging the arena	<b>-20 points or disqualification</b>
Misconduct or abuse	<b>Ban from the event</b>
Using restricted components	<b>Disqualification</b>
Intentionally leaving arena	<b>Round loss</b>

## 10. AWARDS & RECOGNITION

Position	Prize Money
----------	-------------

	<b>1st Prize</b>	<b>₹30,000</b>
	<b>2nd Prize</b>	<b>₹20,000</b>
	<b>3rd Prize</b>	<b>₹10,000</b>

## 11. EVENT TEAM

Role	Name
Faculty Coordinator	Dr. Divya Rani
Event Lead	Ammar Ahmed
Technical Lead	Dipankar Debnath
Logistics Lead	Allen Augusto
Marketing Lead	Faisal Ahmad
Hospitality Lead	Sonali Bali

## 12. GENERAL INSTRUCTIONS

- Follow all university and event safety regulations at all times.
- Treat judges, coordinators, and volunteers with respect.
- All decisions made by judges and coordinators are final and binding.
- Any updates or amendments will be announced through official channels only.

***Good luck, and may the best bot win!*** 

Titan Tussle — Robo Sumo Championship