

SERVO STRIKERS

BOT SOCCER CHAMPIONSHIP

Official Standard Rule Book

INNOVATEX 4.0 • MakerSpace Cluster • Presidency University

01 EVENT OVERVIEW

Field	Details
Event Name	SERVO STRIKERS
Cluster	MakerSpace Cluster
Event Type	BOT Competition
Mode	Offline
Team Size	4 Members
Duration	09:00 AM – 04:30 PM

02 EVENT OBJECTIVES

- Design and program autonomous or manually controlled robots capable of playing soccer, demonstrating precision, teamwork, and control in a competitive environment.
- Encourage participants to apply principles of robotics, mechanics, and programming to develop robots that can detect, move, and score goals in a simulated soccer match.
- Enhance students' practical understanding of robotics, electronics, and control systems through an engaging, interactive soccer-based competition.
- Promote innovation, problem-solving, and teamwork by challenging teams to create efficient soccer-playing robots that combine mechanical design, coding, and strategy.

03 DESIGN & TECHNICAL SPECIFICATIONS

Parameter	Specification
Dimensions (Max)	30 cm x 30 cm x 30 cm (L x W x H)
Weight (Max)	5 kg
Control System	Wired or Wireless (team-operated during match)
Prohibited Mechanisms	Destructive weapons or harmful mechanisms

04 GENERAL GUIDELINES

- Participants must adhere to the event schedule and all submission deadlines.
- Teams are responsible for bringing their own equipment unless stated otherwise.
- All entries must be developed from scratch during the event — pre-built work is not permitted.
- Teams must document their work, including: Problem Statement, Approach & Technology Used, and Challenges Faced & Solutions Implemented.
- Organisers will provide basic power and connectivity support.
- Any unsafe or unethical behaviour will lead to immediate disqualification.

05 SAFETY RULES

- All equipment must comply with safety regulations covering battery, wiring, and mechanical setup.
- Participants must follow all event venue safety instructions at all times.
- Drones and RC vehicles must include propeller guards or appropriate fail-safes.
- Flammable, high-voltage, or hazardous materials are strictly prohibited.
- Spectators must remain outside designated operational areas throughout the event.

06 EVENT ROUNDS & STRUCTURE

Round	Stage	Description
Round 1	Preliminary	Initial qualifying matches; teams demonstrate basic functionality and scoring ability.
Round 2	Semi-Finals	Top teams from Round 1 compete for a place in the Final.
Round 3	Final	Top two teams compete for championship honours.
Final Evaluation	Judging & Results	Judging panel reviews performance, design, and innovation; results announced.

07 JUDGING CRITERIA & MATCH RULES

7.1 Scoring & Victory Condition

- The team with the most goals at the end of both rounds wins the match.
- If the score is tied after both rounds, the match proceeds to extra time or a penalty shootout as determined by the event officials.

7.2 Match Duration

Component	Duration
Each Round	2 minutes 30 seconds

Break Between Rounds	1 minute
Technical Break (per team)	1 minute (maximum one per team)

7.3 Fair Play & Sportsmanship

- Pushing, ramming, or deliberately damaging the opponent's robot is strictly prohibited.
- Any violation of fair play rules will result in a penalty.
- A team is permitted a maximum of three penalties; upon the fourth penalty, the team will be disqualified.
- Unsportsmanlike behaviour from team members may also result in penalties.

7.4 Field Rules

- Robots must remain within the field boundaries at all times.
- Exiting the field boundaries results in a penalty.
- If both robots become deadlocked, the match will be restarted from a neutral position as determined by the referee.

08 SCORING OVERVIEW

Parameter	Max Points
Performance / Accuracy	50
Technical Design	25
Safety & Compliance	15
Innovation / Aesthetics	10
TOTAL	100

09 PENALTIES & DISQUALIFICATIONS

Violation	Penalty
Late Submission	-10 Points
Unsafe Operation	Immediate Disqualification
Incomplete or Pre-built Work	-20 Points
Violation of Safety Zone	-15 Seconds / -10 Points
Misconduct or Unethical Practice	Permanent Ban

10 AWARDS & RECOGNITION

Category	Prize	Remarks
1st Prize	₹30,000	Winner
2nd Prize	₹20,000	Runner-up
3rd Prize	₹10,000	Technical Merit

11 EVENT TEAM

Role	Name	Department / Club	Contact
Faculty Coordinator	Divya Rani M S	Deputy Director, MakerSpace	—
Event Lead	Zaid Khan	SOCSE	7019502403
Technical Mentor	Rakshita Sonar	SOCSE	9019945657
Logistics & Media Lead	Mohammad Fawad	SOCSE	9036180370
Marketing	Arpita Gourani	SOCSE	7676141442
Hospitality	Parvathy Ajith	SOCSE	8073442417

12 GENERAL INSTRUCTIONS

- Follow all university and MakerSpace cluster policies throughout the event.
- Respect judges, peers, and staff at all times.
- Any form of plagiarism or code reuse will result in immediate disqualification.
- Decisions of the judges are final and binding; no appeals will be entertained.
- Certificates will be awarded to all valid participants upon completion of the event.

We wish all participating teams the very best.

Let innovation drive you to victory.