Robo-Soccer Event Rulebook

# Overview

## 1.1 Introduction

Robo-Soccer is an exhilarating college event that merges robotics and soccer, challenging teams to design and program autonomous robots for soccer matches. This rulebook outlines guidelines for a fair and entertaining competition.

# Team Composition

## 2.1 Team Size

Each team must consist of 2 to 4 members.

# Robot Specifications

## Dimensions

The robot must fit within a 40cm x 40cm x 40cm cube at the match start, with a height not exceeding 40cm( **IDLE/HOME POSITION)**

## Power Source

Robots must be battery-powered with a maximum voltage of 24V DC, and not more than 2 batteries can be connected in the system. Teams are responsible for their power sources, ensuring sufficient power for the entire event.

# Soccer Field

## Field Dimensions

The soccer field will be a rectangular area with specified dimensions. Markings will indicate goals, boundaries, and other relevant features.

## Goals

Goals will be placed at opposite ends of the field. Teams must strategize to score goals using their controlled or autonomous robot systems.

# Match Rules

## 5.1 Match Format

Matches consist of two teams competing in a soccer game. Each match has a specified 3-minute duration, and the team with the most goals at the end wins.

# Technical Inspection

## 6.1 Inspection Process

All robots must undergo a pre-event technical inspection for compliance with size and power regulations. Non-compliant robots may be disqualified or asked to make necessary adjustments before participating.

# Code of Conduct

## 7.1 Sportsmanship

Teams are expected to demonstrate good sportsmanship and ethical behavior. Unsportsmanlike conduct may result in penalties or disqualification.

# Scoring

## 8.1 Goal Scoring

100 points are awarded for each goal scored during a match. The team with the most points at the end is declared the winner.

# Awards

## 9.1 Recognitions

Awards will be presented for categories such as Best Teamwork (up to 200 points), Most Goals Scored, Best Driving Skills, and Best Robot Design (up to 200 points). Judges’ decisions are final.

# Disclaimer

## 10.1 Event Organizers

Event organizers reserve the right to modify rules for smooth event conduct. Participants must stay updated on communicated rule changes.

*Note: Participants should thoroughly review this rulebook and seek clarification from event organizers for any uncertainties. No PDF will be provided; this serves as the final communication.*