



JECRC
UNIVERSITY
BUILD YOUR WORLD



MAKERSPACE

Presents

MAKER'S CARNIVAL

INFINITE ODYSSEY

EVENT

RULEBOOK



ROBO SOCCER

DESCRIPTION:

Robo-soccer is a 2 team (1v1), fun and innovative sport, that combines the excitement of both traditional soccer plus technology and robotics.

Here, a robot car is wirelessly controlled by a human operator and they fight in arena with another robot car with the aim of scoring goals and out-maneuvering their opponents.

Your win depends on your teamwork, strategy and how you control the bot and bring the best use of it.

Arena: 4m x 3m (lxb), Ball (6.5cm Diameter)

RULES & REGULATIONS

-Bot dimensions must be 30cm x 30cm or less.

-Only dual motored bots are allowed.

-Any mechanism to hold the ball in place is not allowed.

-Robot must not enter in the goalpost. If any robot enters the goalpost for 2 times during a period of 20 seconds is considered a foul. And the opponent team will be given a free kick.

-A team can consist of max 3 members. (Only 2 will be allowed near arena 1 for controlling the bot and 1 for assisting.)

-Robots can be wired or wireless.

-If a technical glitch occurs, servicing time of 2 minutes will be given to both teams. (Maximum of 2 times)

RULES & REGULATIONS

- Teams are not permitted to change the parts of the robot during a run or between halves unless damaged.**
- The robots of both teams will be checked before the start of the match.**

Scoring

- In case of a tie, the teams will be given free kicks
There will be 5 rounds, duration of 1 round being 6 minutes**
- Points will be awarded considering the no. Of Goals within the given time.**

ROBO SUMO

DESCRIPTION:

The Robo-Sumo Showdown is a high-octane robotics competition where competitors deploy customized car-shaped robots to engage in fierce combat within a circular arena.

The mission is to forcefully eject your opponent's robot beyond the arena's boundaries, all while staying within specific length constraints.

This event pulsates with adrenaline, offering a dynamic showcase of skills, strategy and the art of collaborative teamwork

RULES & REGULATIONS

- Bots must be remote controlled, car-shaped and should not exceed dimensions 30cm*30cm*20cm (L*B*H), including any appendages or extensions**
- The weight of the robot should not exceed 1 kg.**
- The arena is a circular platform with radius of 70cm. The arena will have a low, clearly marked boundary to indicate the safe zone.**
- Matches are 1v1 battles.**
- Each team can have maximum up to 4 members.**
- Each match has a time limit of 3 minutes. The robot that successfully pushes its opponent out of the arena wins.**
- If neither robot is pushed out within the time limit, the match will go to a judge's decision based on control, aggression, and style.**

RULES & REGULATIONS

- Robots will start the match from opposite sides of the arena, with a safe distance between them.**
- Participants can either use their own bot or can choose to use the bots that we will provide.**
- Remote-controlled robots must be operated by a single person .**

Scoring

- Pushing the opponent out of the arena.**
- Aggression and tactics used against the opponent.**
- Overall style and sportsmanship.**
- Judges will collectively determine the winner in the absence of a clear knockout.**

BOMB DEFUSAL

DESCRIPTION:

- The bomb defusal game is a heart-pounding experience where you step into the shoes of an elite bomb disposal expert. Your mission? To disarm a series of increasingly complex bombs before they detonate.

Your success depends on keen observation, analytical skills, and the ability to stay calm under extreme pressure. Mistakes can be costly, but overcoming each level brings a sense of triumph and the adrenaline rush of averting disaster.

Are you up for the challenge?

RULES & REGULATIONS

SAFETY FIRST! The event will be simulated in a controlled and safe environment.

-There will be a set of quiz/puzzles which will define the sequence of wires to be cut that has to be followed to defuse the bomb successfully.

-There will be (6-10 wires) that would be needed to cut in the right sequence in 10 minutes. Team who takes the least amount of time will be the winner.

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There will be penalties for when wrong wire is sliced.

The participating team will consist of max 2 members.

CAPTURE THE FLAG

DESCRIPTION:

Get ready for an action-packed event featuring 6 cutting-edge robots armed with in-built lasers and receivers, ready to showcase their remarkable capabilities!

In this event, these robots will engage in intense battles, using their lasers to immobilize opponents with precision. But the real excitement lies in their magnetic prowess.

Join us for an adrenaline-pumping competition where these robotic marvels aim to seize victory in "Capture the Flag"!

RULES & REGULATIONS

- The game can be 2v2 or 3v3.
- Controllers will be given to maneuver the Robots.
- To capture the opponent's flag, a robot must approach the flag with its magnet. The robot's magnet will connect with the flag when the operator activates it in close proximity.
- A robot can shoot its laser at an opponent's robot to temporarily disable it and when a robot is hit by a laser 3 times, it will be temporarily shut down for 5 seconds.
- If a robot carrying the flag is hit by an opponent's laser 3 times, the magnet will disconnect from the flag.
- The game shall have a prescribed duration of 5 minutes.

RULES & REGULATIONS

- Penalties for rule violations, such as disqualification of a player or Team.**
- A team earns a point for every flag they successfully bring to their side of the field.**
- The game ends when one team successfully captures all the opponent's flag and brings it to their side of the field.**
- If the game ends in a tie, additional rounds or overtime may be used to determine the winner.**

COSMIC TRAIL

(TREASURE HUNT)

DESCRIPTION:

Cosmic Trail takes you on an interstellar journey through the cosmos, testing your knowledge of celestial bodies and the mysteries of the cinematic universe.

Participants will progress through different levels, each with a unique set of questions and challenges. As you advance, the complexity of questions and tasks will increase, ensuring a riveting experience.

Theme of the event is sci-fi and space.

The clues and questions will be based on space, ai, aptitude and famous series & movies.

RULES & REGULATIONS

- Each team can have 3-5 members.**
- Your team must stay together at all times. Do not split up to divide tasks.**
- One of the student coordinator will be always present there with the teams for their help.**
- The teams are not supposed to go beyond the boundaries that are assigned to them otherwise they will be disqualified.**
- If any member of the team is caught cheating, taking help from anyone other than their team members, stealing or copying other people's work then the team will be disqualified.**
- Use of mobile phones or any such gadget is not allowed during the game.**
- No one should create any kind of chaos at any place while searching for the clues.**

NOTE ✨

All participants are expected to exhibit good sportsmanship and respectful behavior towards fellow competitors, event organizers, and spectators.

The event organizers have the authority to make on-the-spot decisions regarding any unforeseen situations or disputes that may arise during the competition.