ROBO SUMO

TASK:

To design a wireless machine to push the opponents robot out of the arena.

GAME PROCEDURE:

1) The bots will be placed at the edges of the arena which is a circle on opposite ends of a diameter. The bots have to push each other out of the arena. The first robot to go out of the arena loses.
2) The matches will be on knockout basis. Losing team is eliminated. Fixtures will be decided on random basis during the day of event.

ARENA:

1) The arena is a circle of the radius 90 cm.

MACHINE SPECIFICATION:

1) The machine should fit in a box of 25cmx25cmx25cm(lxbxh) at any instant of time.
2) The machine always has to be controlled wirelessly.
3) Each team should be able to control their machine through at least two different sets of frequencies so as to avoid any interference in the frequencies with other teams. Teams failing to do so will be disqualified.
4) Only pushing of opponents robot by a flat surface is allowed. Use of any weapons or pointed objects are strictly prohibited
5) Each team can have only one machine. The machine should not be built by readymade Lego kits or any other readymade assemblies.Readymade chassis are also not allowed. Any machine found damaging the arena or any other machine will be disqualified.

POWER SUPPLY:

1) The power supply has to be on the machine. The maximum potential difference should not exceed 24V DC between any two points on the machine.

2) Only electrical energy can be used for propulsion. No form of chemical energy is allowed.

GENERAL RULES:

1) Any team not ready at the specified time will be disqualified.
2) The machines will be checked for safety before run and will be discarded if found unsafe.
3) Organiser's decision will be final and binding to all.
4) Organisers reserve the right to change any or all of the above rules as they deem fit.Any change in the rules will be highlighted on the Website and shall be notified to the registered participants.
5) All students with a valid identity card from their respective educational institutions are eligible to participate.

TEAM: A team can consist a maximum of 3 members.