ROBO SOCCER

**Task:**

This flagship event of Innovate 2k17 combines the world’s most celebrated sport Football with Robotics technology and will provide you with a memorable experience of fun and thrill. The aim of this event is to build a manually operated robot that can play the basic game of football in a miniature rectangular soccer arena. Each team will be having one robot which will serve as the goalkeeper and the striker. The participating teams will gain points depending on the position from where the goal is scored or will lose points if they do a foul. The team which scores maximum points at the end will win the match.

**Rounds:**

The rounds will be based on the general fixture basis. The total playing time between two teams would be of 14 minutes, divided into two halves of 7 minutes each.

**Arena**

The outer dimensions of arena are 3000 mm X 2000 mm (lxb). The goal post will be 300mm in length.

**Note: The dimensions of the arena will be accurate to within 5% or 20 mm, whichever is less.**

**Bot Specification:**

1. The robot should not be more than 350mm\*350mm\*250mm (length\*breadth\*height) in size at any time during gameplay.
2. One team can have either one robot for the game play.
3. The bot can have any type of kicking mechanism but it should not exceed the weight limit and the bot dimension.
4. Teams have to show and declare their bots before their first match itself.
5. The bot can be wired or wireless. In case of wired bot AC supply will be provided and in case of wireless bot the team should carry their batteries and should take care of dual frequency.

**Power Supply:**

1. The participants should use an onboard electric or non-electric power supply i.e. the power source should be on the bot itself. The power source must be non-polluting and must satisfy the safety constraints determined by the organizers. In case of non-electric power supply, the participants must get it approved from the organizers beforehand via email. Organizers are not responsible for the inconvenience if the approval is not sought.
2. In case of an electric power supply, the voltage between any two points should be less than or equal to 24 V DC at all times during the run.
3. AC power supply will be provided at the time of the competition. But the powers on board must not cross 24V.

**Game Rules**

1. A maximum of 1 bot can be inside the arena from any team.
2. Any team must not block the entire goal post; there should be a space of 20 cm space at any one side at least all times.
3. The team which scores maximum goals in the match would be declared as the winner of that match.
4. The total playing time between two teams would be of 14 minutes , divided into two halves of 7 minutes each.

**General Rules:**

1. The teams must adhere to the spirit of healthy competition.
2. Organizers reserve the right to disqualify any team indulging in misbehavior or violating any rules.
3. Any team that is not ready at the specified time will be disqualified from the competition automatically.
4. The time and points measured by the organizers will be final and will be used for scoring the teams.
5. Time and points measured by any contestant by any means will not be accepted for scoring.
6. In case of any disputes/discrepancies, the organizers’ decision will be final and binding.
7. The organizers reserve the rights to change any or all of the above rules as they deem fit. Change in rules, if any will be highlighted on the website and notified to the registered teams.

Note that at any point of time, the latest information will be that which is on the website. The information provided in the pdf downloaded earlier may not be the latest. However, registered participants will be informed through mail about any such changes.

**Judging:**

The team which scores maximum goals in the match would be declared as the winner of that match.

**Team Specification:**

A team may consist of a maximum of 4 participants. Students from different educational institutes can form a team.

**Eligibility:**

All students with a valid identity card of their respective educational institutes are eligible to participate.