

## **AERATED RUN** **(An Environmental RATED Run)**

### **THEME:**

Science and technology go hand-in-hand in solving the world's problems, robotics and automation are the latest innovations set to tackle one of our biggest issues —Sustainable Development.

A simulation of some general but crucial problems and their solutions are signified through this event. The general problems of sewage cleaning, recycling, water harvesting, power saving and efficient usage of resources are highlighted through the track where the bot shows a way for sustainable development by overcoming all these problems which it encounters in its course.

“To save Earth, we need to save environment”

Your bot is the Ranger fighting to save the environment. An Environmental **RATED Run** is the project taken by your ranger to help Earth becoming a better planet to live in. Racing through the arena, the ranger is to tackle tasks and obstacles and overcoming them will take it a step closer to the goal. The arena is a miniature version of the wonders of earth, and to save those wonders the ranger has to go through high mountains, deadly waterfalls, engulfing swamps, running plain lands and zig-zag roads. Help your ranger get through all these and finish the **AERATED run**.

### **EVENT SPECIFICATION AND RULES:**

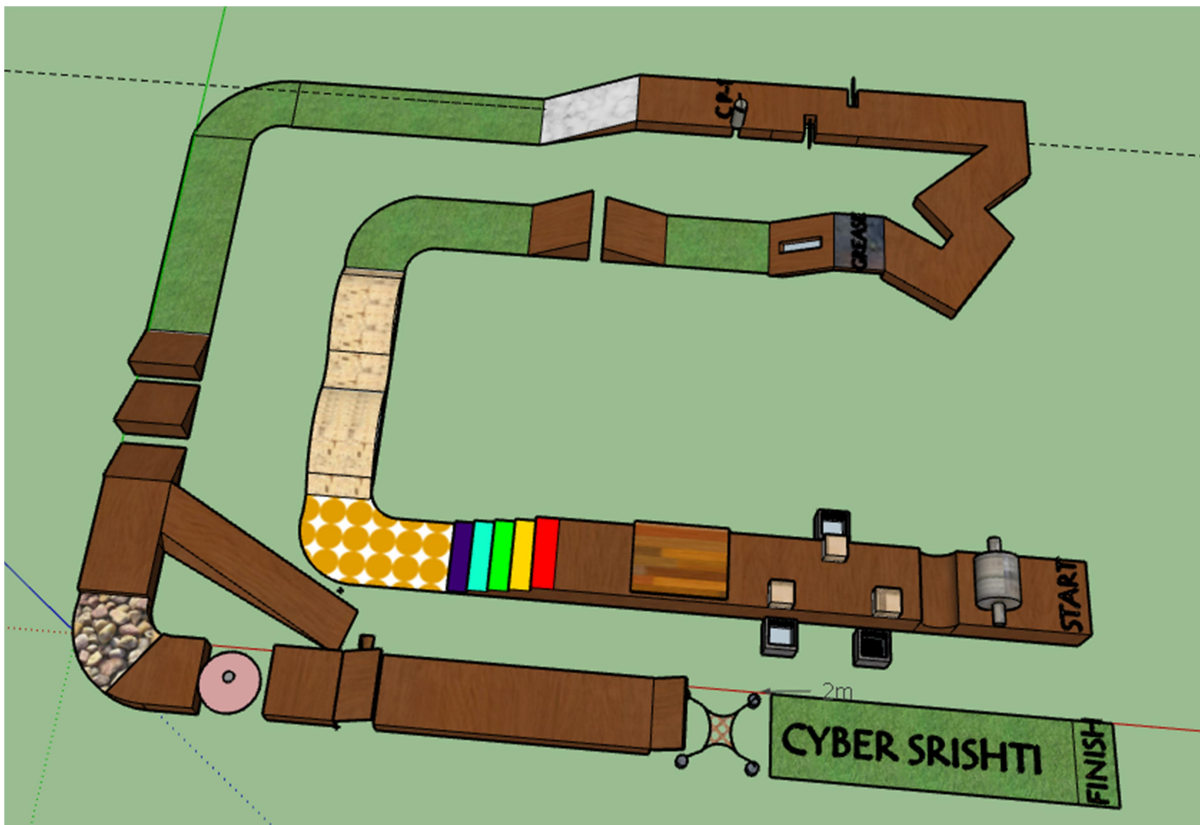
- The bot can be wired or wireless. However, no extra points shall be awarded for wireless controlling
- Event will be held in 2 rounds.
- Teams will compete against each other in a set of two, the one finishing tasks first will qualify to the 2nd round.
- The bot can use on-board or external power supply.
- Power supply more than 24 volt is not allowed.
- The decision of the coordinating team will be final and binding.
- The participants are required to be present at least 10 minutes before their run.

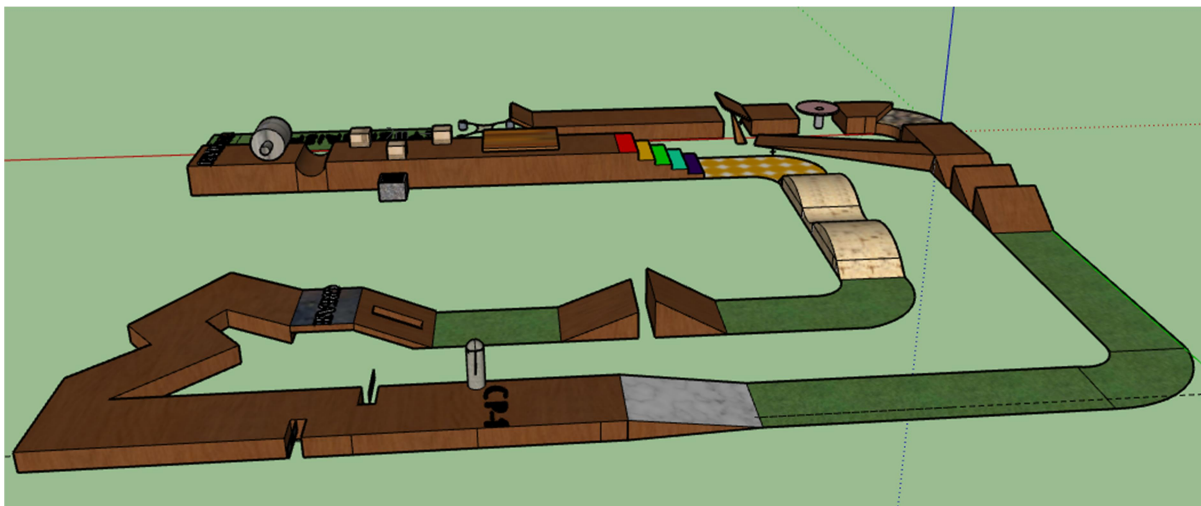
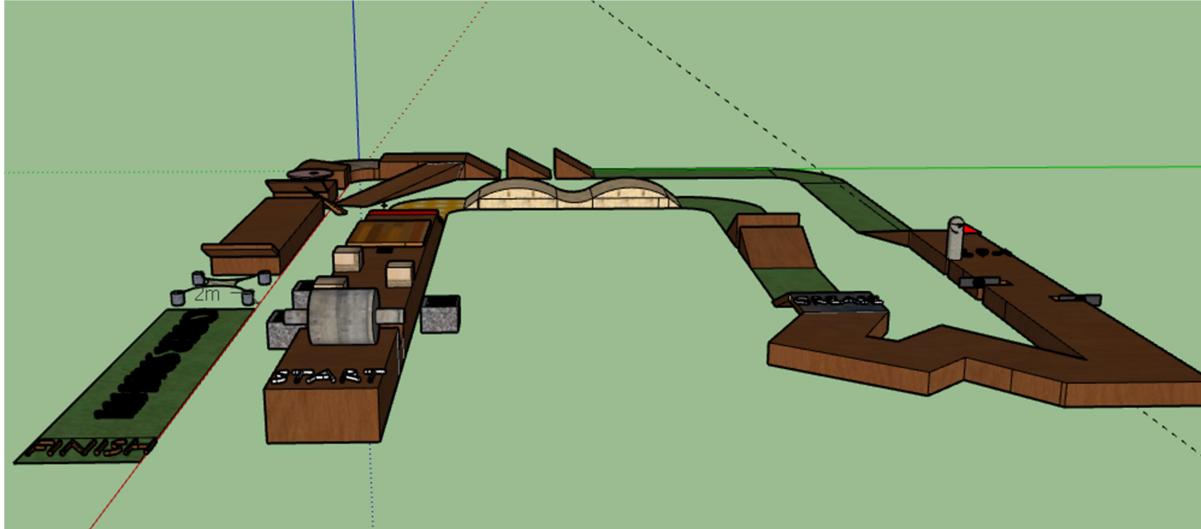
### **BOT SPECIFICATIONS:**

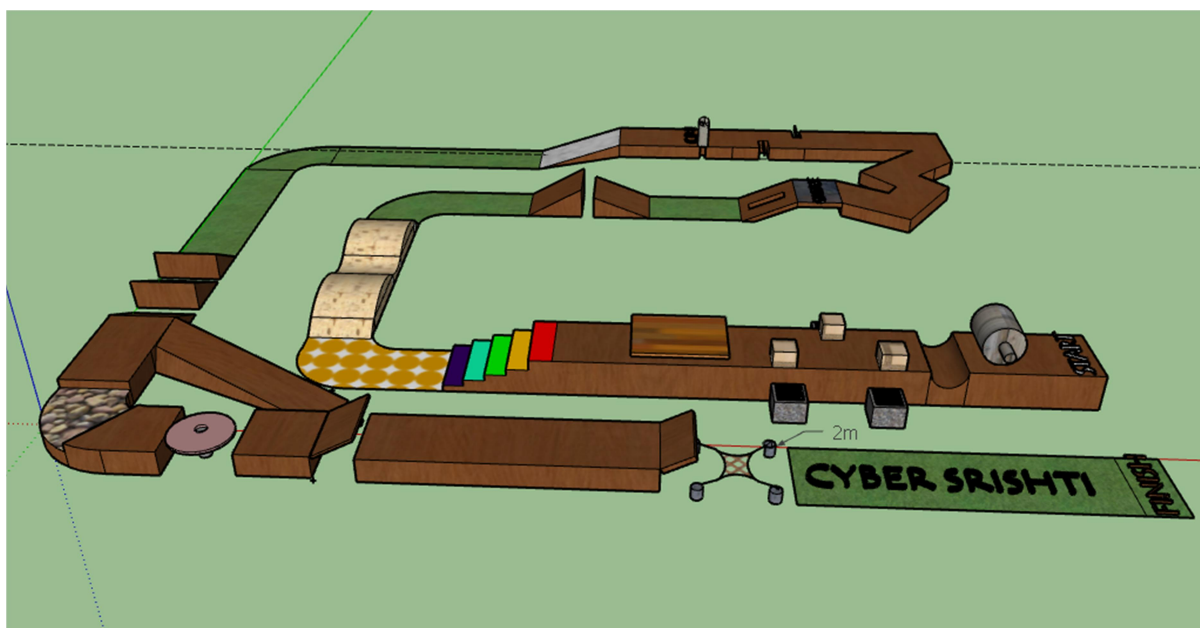
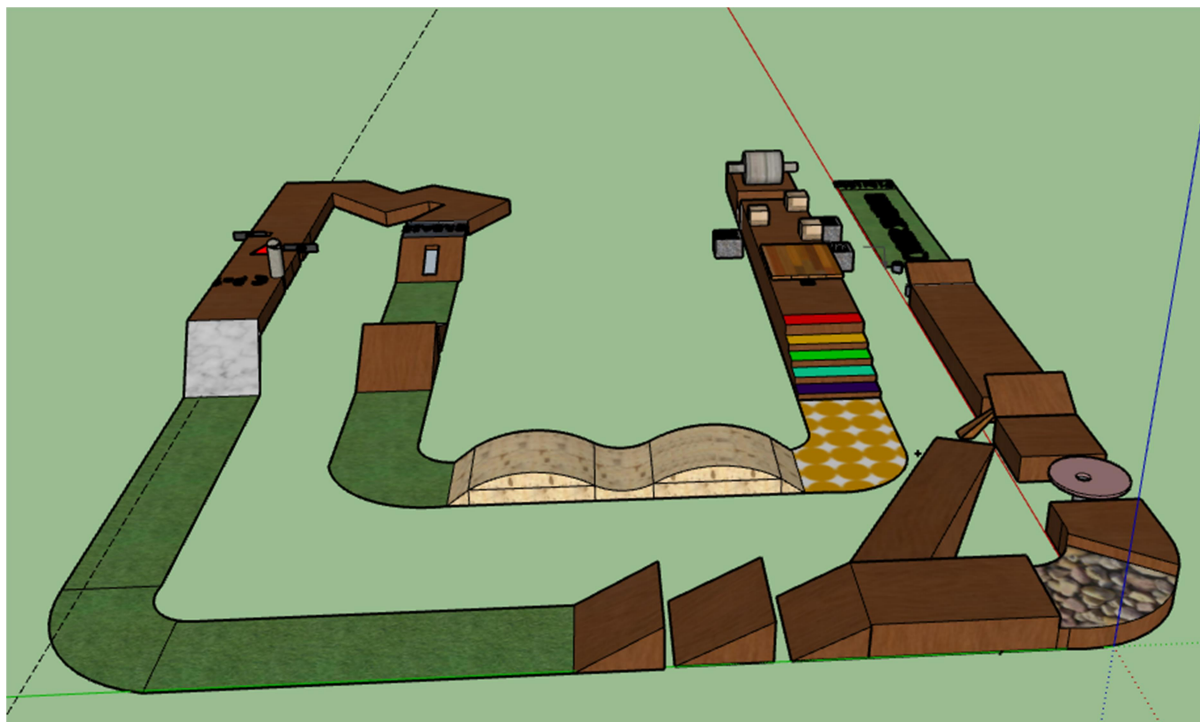
1. Each team is allowed to have only a single bot.
2. The robot must fix inside a cube of dimension 300mm X 300mm X 300mm before the start of event. ( At minimum a simple base four wheel drive is sufficient to complete the track )

3. The dimensions mentioned above are subject to a tolerance of 5%.
4. The maximum voltage difference between any two points should not exceed 24V DC.
5. The bot can use on-board or external power supply. However any fault or disconnection would be the responsibility of the participants.
6. Participants will be provided with 12V DC and 24V DC power supply.
7. The bot must be fully manually controlled with all mechanisms self-contained.
8. The bot should not leave any spare parts in the arena at any stage.

### TRACK SPECIFICATIONS:







**TEAM SPECIFICATIONS:**

A team can have maximum of 4 players. Players from different educational institute can form a team.

**SCORING RULES:**

- All the tasks are time oriented.
- Participants have to finish the time in minimum time possible.
- Penalty persists on skip and man handling. Extra time will be added up in your final run time for every penalty.
- The final decisions lie in the hands of the authorities managing the event.

**ELIGIBILITY:**

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

**EVENT COORDINATOR:**

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