





**Inspiring Students, Creating Innovators** 

# SPEEDRACER SHOWDOWN



### **PROBLEM STATEMENT**

The teams have to construct fast-moving RC cars which are capable of driving on a circuit track. Alongside, they also have to practice their driving skills in order to complete the track efficiently.

### **BOT SPECIFICATION**

The bot must have an electric motor mechanism only.

- Gasoline based cars are not allowed.
- The bot can use BLDC, DC or any other type of motor.
- Terminal potential must not exceed 24 volts.
- Lead acid battery is not allowed.
- The dimensions of the bot must be less than 30cm x 30cm x 30cm.

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- The Bot must weigh less than 2KG.
- The teams can use any wireless method for communication.

## **GUIDELINES:-**

- Each team should comprise of minimum 1 and maximum 3 participants.
- The teams that take the least time to complete the entire track will qualify for Day 2.
- If the bot gets stuck, the participants can resume from the previous checkpoint.
- Teams will be negatively marked if the car strays from the track more than 3 times.

 The arenas are not to scale and are provided to just give a rough idea about the race track to the participants.

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ARENA: DAY

Seed Racer RC Race Showdon

• This arena does not contain any hurdles.

The checkered flag marks the commencement and finish points.

The number of laps that the teams will have to take

will be declared on the day of event.

 The teams will get 3 warnings for crossing the green zone, after which, a time penalty will take place, where, 3 seconds will be added to their total completion time for every strike.

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ARENA: DAY 2

Seed Racer RC Race Showdon

 The arena for Day 2 contains various hurdles including bumps, bridges, tires and sand pits.

The checkered flag marks the commencement and finish points.

• The number of laps that the teams will have to complete will be declared on the day of event.

 The teams will get 3 warnings for crossing the green zone, after which, a time penalty will take place i.e. 3 seconds will be added to their total completion time for every strike.

 The top 3 fastest teams of Day 1 will be given the asset of the pole position on Day 2.

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