

Roadster | Fall 2024

EVENT SUPERVISOR: SHABD BHATIA [bshabd@tisb.ac.in]

DEPUTY SUPERVISOR: HARSHIT DHANDIA

RACE STEWARD: HEMISH MADALA

HOST: ADITYA SURESH IYER

Rules for the build:

- All finished cars **must weigh** between 400g to 1800g [Battery Included]
- Dimensions - **Between** 200mm x 100mm and 400mm x 250mm [Dimensions are provided in the format: Length x Breadth]
- **Maximum Voltage** must not exceed 15 Volts
- Must be radio-controlled remotely by **1 member** of the team
- A Radio Receiver must be installed [**Will not be provided**] – Try to bring a modern radio receiver and transmitter pair to avoid interference with other drivers.
- FPV Cameras on the car **will not be allowed** for privacy reasons.
- The ground clearance of the car **must be between** 10mm to 40mm.
- You will be provided with a sticker with a car number that helps with identification on the track.

Supplies Required:

- Fully built race cars [Store-bought vehicles will **not be allowed** (Kits are allowed)]
- RF Transmitter with sufficient power
- **Sufficient batteries/chargers** to last the entire duration of the track [25 Laps + Qualifying + Practice]. You are allowed to recharge batteries when not in use. However, there will be a limited number of sockets available.
- Any additional supplies your team needs [Soldering Iron, Glue Gun, etc)
- Power tools **will not be allowed**

Format of the Event:

- Morning Session (After Opening Ceremony – 1 hour) -
 - ◆ Practice Runs
 - ◆ Modifications
- Qualifying (After Lunch) -
 - ◆ Each team will be issued 3 hot laps. There will be only 1 team on the track at any time during this session. The lap coming out of the pits will be considered as an

outlap and will not contribute to the 3-lap limit. The team must finish the 3 laps in a time deemed on the day by the event managers.

- ◆ Your best lap will represent your team. You will then be placed in a grid position based on this time relative to other teams competing.


→ Race (After Qualifying) -


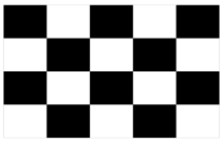


- ◆ Formula-style grid setup. It will be a standing start.
- ◆ 25 Laps
- ◆ There is a maximum time limit for the race. The race will end at the 45-minute mark regardless of whether you complete 25 laps.
- ◆ 1 mandatory pit stop (Battery change)
- ◆ Maximum of 4 pit stops [Can be used to change battery, tyres, or fix the car. No parts can be removed or added from the car that changes its structural design]

Track Rules:

- The vehicle must not be driven outside the racetrack. If the racer leaves the track, they will be issued a warning for track limits. After 5 warnings, a 10-second penalty will be issued. Racers will not be allowed to argue against the race steward's decisions.
- All team members must attend a safety briefing and sign a completion form
- Cars must be remotely controllable
- Drivers will not be allowed to use FPV Cameras and must race using line-of-sight.
- If the car crashes, 1 teammate will be allowed to retrieve the car and place it back on the track (Previous corner) and continue if it is in working condition. If not, the car must be stopped and will be considered as a DNF.
- If a car intentionally crashes into an opponent's car a black and white flag will be issued. If it happens again, a black flag will be issued, and the car must DNF.
- The organising committee has the final say on disputes.
- The team will be considered accountable for not responding to the flags. If the team desires, this responsibility can fall upon the teammates helping in the pits. If these are not followed, a penalty will be issued at the race steward's discretion.

Flags:

Green Flag		Normal racing conditions apply.
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Red Flag		Race must be paused. All cars must return in the order of race position. No overtaking while returning to the pits.
Chequered Flag		Race is over
Black and White Flag		Warning flag for unsportsmanlike behaviour
Black Flag		Disqualified from the race. Return to the pits immediately.