

AMALTHEA '25

AN AMALTHEA '25 EVENT

DRIFT

IN COLLABORATION WITH MRC HOBBIES



OFFICIAL RULEBOOK

VENUE: Behind Kyzeel Hostel

DATE: 8th November

TIME: 10 AM onwards

FEEL FREE TO CONTACT: Rajeev Lohith (7658990485)



INTRODUCTION

Have you always dreamed of F1 racing? Amalthea presents Drift, an RC competition that brings the Noise of Acceleration of IC engines and high-speed action to IIT Gandhinagar on NOV 8th, 2025. Train your beast to outmaneuver opponents and show off your racing skills to win a Total prize money of INR 50,000/–. This is a turbo-charged day of innovation and adrenaline. Feel the roar at – Drift, inviting all enthused champs to join an adventure where the excitement never stops.

TASK

Make or bring a wireless remote-controlled car, powered only by an electric motor, which will have to drift and race against other opponents on a challenging track with sharp turns and obstacles.



TEAM SIZE AND PARTICIPATION

- 1. Team is limited of 2–5 members (required a minimum of 2 mem) One to be a driver(who controls the RC car) Other to be a marshall (the one who is allowed to reset the vehicle if it crashes)**
- 2. Participants in a group can be formed from different institutions and hobby groups or any other organizations . However, a member of one team is not allowed to be a part of another team participating in the event.**
- 3. Participants are required to submit the specifications of their car at the commencement of the competition. This submission should include comprehensive details about the technical aspects of the vehicle, ensuring transparency and adherence to the competition rules.**

FINAL ROUND

- 1. The event is conducted over a period of one day.**
- 2. The day is divided into 2 rounds.**
- 3. The final race format might be subject to change based on the number of participations.**



EVENT FORMAT

Format for Participants ≤ 10

For a participant count of ten or fewer, the event will proceed as follows:

1. First Round– Individual Time Trials:

- Each participant will race individually on the track.
- The time for each participant will be recorded .

2. Final Round:

- The top 5–6 participants, based on their recorded times, will compete together in a final race.
- The starting positions for the final race will be based on the times from the initial round.
- The winner will be the first to cross the finish line in the final race of laps 5.

Format for Participants ≥ 10

For a participant count exceeding ten, the event will adopt a heat format:

1. Heat Races:

- Participants will be divided into heats, with 3–4 participants per heat.
- Each participant's time will be recorded during their heat.



2. Advancement to Next Round:

- **Participants will advance to the next round based on their times, not their heat placements.**
- **Multiple participants from a single heat can advance If their times qualify.**

3. Final Round:

- **The top 5–6 participants, based on their times from the initial rounds, will compete together in a final race.**
- **The starting positions for the final race will be based on the times from the initial rounds.**
- **The winner will be the first to cross the finish line in the final race no. of laps to be completed are 5**

RACE TYPE

- **1:12, 1:14 and 1:16 Electric Buggy all allowed**
- **Power System: Must use a brushed or brushless electric motor with an approved Electronic Speed Control (ESC).**
- **Battery: Maximum 3S (11.1V) LiPo batteries are permitted (typical capacity: 2000mAh to 3000mAh).**
- **Brakes: The ESC must provide an internal Drag Brake system. No mechanical braking is permitted.**



- **Weight:** Minimum weight must be approximately 1.5 – 2kg (excluding battery).
- **No other braking mechanisms are permitted.** The ESC must provide a working brake system (Drag Brakes) to stop the car and hold it motionless. No other braking mechanisms are pertaining .

VEHICLE SPECIFICATIONS:

1. The dimensions of the vehicle are [Electric buggy 1:12, 1:14 and 1:16]
280 mm * 200 mm * 200 mm. {Height (with suspension fully compressed)}
2. The vehicle should be fully remote controlled on a pre-specified frequency.
3. The Tyres must be rugged enough for running over off-road tracks; there will be no tyre-changes allowed mid race.
4. Drive System: Four-Wheel-Drive (4WD) with a working differential is mandatory and should fit within specified dimensions.
5. On-board power supply for all electrically operated machines must not exceed 12 volts including the electric motor.
6. Bringing ready-made vehicles to the race will NOT be considered a disadvantage. However, it is recommended that the vehicle be competitive and in line with the above



TRACK AND RULES

1. Boundaries made with flexible yet hard HDPE pipes.
2. The track will consist of ramps and tunnels to make the race challenging for the participants.
3. The track will contain multiple terrains ranging from grasslands, barrens and concrete roads with elevation changes and other surprise obstacles.
4. Further details or modifications about the track will be initiated to the participants.
5. There can be, at maximum, only one member (the marshal) of a team on the track at a time.
6. When the car tumbles, halts, or goes off the arena, only the marshal for that round is allowed to lift it and place it at the nearest checkpoint behind that point.
7. Until and unless there is a need to touch the vehicle, as stated above, they will have to be fully remote-controlled throughout the race.
8. **Unsportsmanlike Conduct:** Dangerous driving, verbal abuse, or interference with other competitors will result in warnings, penalties, or outright disqualification.
9. The design and other details of the track will be disclosed on the day of the event.



- 10. Car Integrity:** Vehicles that break apart and leave debris on the track during a race will be disqualified.
- 11. Official Decision:** The decisions of the organizers and judges on all rules, disputes, and penalties are final and binding.

ABSTRACT ROUND

This round will require the participants to submit a brief write-up of their vehicle along with its specifications, blueprints and photos. The more detailed, better the chances of advancing to the next round. Basically, we want a detailed plan of the team and its vehicle. The form for the same will be floated by 6th NOV.

PRIZE MONEY

50000/-

1st Prize: Rs. 25000/-

2nd Prize: Rs. 15000/-

3rd Prize: Rs. 10000/-



GENERAL NOTES RULE AMENDMENTS

These rules are subject to change. While IIT GN event coordinators will attempt to inform all registered teams of updates, it is the team's responsibility to check the latest version of the rulebook.

Stay updated with the latest news, updates, and announcements by following us on our social media channels. Your journey through Drift '25 will be a memorable experience, and we are committed to supporting you every step of the way.

We invite you to join us at the forefront of RC racing innovation, camaraderie, and exhilaration. Drift '25 is anticipated to be an electrifying experience, and we eagerly await your presence.

Please remember that it is not merely a race; it is a high-speed adventure that pushes the limits of skill and innovation. Let us prepare our engines and make history at Drift '25.

Participants are encouraged to share their journey and experiences using the hashtag #Amalthea and by following the event updates on the official Instagram account @amalthea_iitgn. This will foster a sense of community and engagement among participants.

