



AMALTHEA '23



IIT GANDHINAGAR



DRIFT RACING

RULEBOOK

INTRODUCTION

Rev up your RC racing excitement with Drift, presented by Amalthea. Imagine engineers and speed fanatics from all corners battling it out with RC cars. Tune up your ride, push it to the limit during tests, ace those qualifiers, and channel your inner Sebastian Vettel! This is more than a race – it's a turbo-charged adventure fuelled by innovation, skills, and rush. Feel the roar of the engines at Drift – where cool meets fast, and the excitement never stops!

REGISTRATION DETAILS

- 1. Registrations will begin from 19th September.**
- 2. Registration will be accepted via google forms.**
- 3. Registrations will be open till 20th October.**

PARTICIPANT GUIDELINES

- 1. There is no restriction on the participants being from the same or different institutions or the number of teams from a single institution. However, a member of one team is not allowed to be a part of another team participating in the event.**
- 2. Participants who are not from an institute of higher education but are affiliated with a hobby group can also participate in the event.**
- 3. Each team is permitted to compete with only one car.**
- 4. 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.**

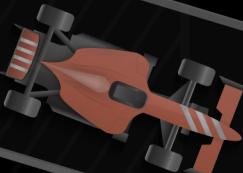
TEAM SIZE

- 1. Team size will be limited to 2-5 members,**
- 2. Minimum requirement is at least a**
 - Driver (who will control the vehicle during the race);**
 - A Race Marshall (the one who will be allowed to reset the vehicle if it crashes)**
- 3. Substitute drivers and/or engineers are allowed, but every member's position in the team should be confirmed beforehand.**



FINAL ROUND

1. The event will be conducted over a period of two days.
2. However, the first day will be optional and only consist of testing the vehicles. So it is up to the teams to decide if they want to come for this.
3. The second day will be split into two phases - a qualification and the final race.
4. **QUALIFICATION:**
 - Firstly , there will be individual races for each of the participants and based upon their timing they will be divided into groups .
 - After every session, vehicles with the slowest lap times will be eliminated (will depend on the number of teams participating).
 - Based on their rankings of lap times, the vehicles will take their places on the starting grid of the final race.
5. **FINAL RACE:**
 - The final race will consist of going around the track for a set number of laps - 25. And the winner will be decided by whichever vehicle finishes first.
6. The final race format might be subject to change based on the number of participations.



VEHICLE SPECIFICATION AND RULES

1. The dimensions of the vehicle should be such that it fits into a box of dimensions **700mm * 600 mm * 500 mm**.
2. The vehicle should be fully remote controlled on a pre-specified frequency.
3. The diameter of the tyres must be at least **2.5 inches** and said tyres must be rugged enough for running over off-road tracks; there will be no tyre-changes allowed mid race.
4. Vehicles are allowed to have a **maximum of 6 sets of wheels** (3 on each side) 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. In the case of IC engines, the engine capacity must not exceed **4.6cc**.
7. The use of other sources as the fuel source (such as compressed gas, rockets and nitro) is not allowed.
Parts such as gears, differential gear, engine, springs, shock absorbers, servo motors, batteries, wheels and wheel hub can be purchased and used directly.
9. Bringing a ready-made vehicle 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 DETAILS

- 1. A total track length of over 100m.**
- 2. Boundaries made with flexible yet hard HDPE pipes.**
- 3. The track will consist of ramps and tunnels to make the race challenging for the participants.**
- 4 The track will contain multiple terrains ranging from grasslands, barrens and concrete roads with elevation changes and other surprise obstacles.**
- 5. Further details about the track will be initiated to the participants soon.**

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 26th September.

Deadline for Abstract Round Submission: [27th October, 2023](#).

JUDGING CRITERIA

Winners will be decided on the basis of the final race - whoever finishes all the laps of the circuit first will be awarded the first prize. The top two finishers will be awarded the prizes

DATE AND TIME

4th November 2023.

VENUE

Hockey Field, Indian Institute of Technology Gandhinagar, Palaj, Gujarat - 382355

PRIZES

- 1. A total prize money of INR 75,000.**

DRIFT RACING



AMALTHEA '23

IIT GANDHINAGAR

Stay updated with the latest news, updates, and announcements by following us on our social media channels. Your journey through Drift '23 will be one for the books, and we're here to support you every step of the way.

Join us at the forefront of RC racing innovation, camaraderie, and exhilaration. Drift '23 is poised to be an electrifying experience, and we can't wait to see you there!

Remember, it's not just a race – it's a high-speed adventure that pushes the limits of skill and innovation. Let's rev up those engines and make history at Drift '23!

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

CONTACT US

Pranjali Gaur
+91 88878 53269
pranjali.gaur@iitgn.ac.in

Akshat Barnwal
+91 70914 49679
akshat.barnwal@iitgn.ac.in

