

RULEBOOK – TECHNOVATE 2025

➤ **CAD-O-CREATE & RC CHALLENGE**

❖ **DESCRIPTION**

CAD-O-CREATE & RC CHALLENGE is an exciting competition designed to test the innovation, technical expertise, and problem-solving skills of participants.

- **CAD-O-CREATE:** A design challenge where teams must create a CAD model within a **1.5-hour** time limit based on a given problem statement. Participants will have to use their creativity and engineering knowledge to come up with efficient designs that meet the given criteria.
- **RC CHALLENGE:** A thrilling race where participants compete using RC cars in a specially designed track to showcase their driving and control skills. The track will feature obstacles and challenges to test maneuverability and speed.

Both events aim to promote creativity, engineering skills, and teamwork among students.

➤ **EVENT STRUCTURE**

❖ **CAD-O-CREATE:**

- Participants will be given a **problem statement** at the start of the event.
- Teams must design a **3D CAD model** within **1.5 hours**.
- The model will be judged based on **accuracy, innovation, and functionality**.
- Only **original designs** are accepted. Any copied or pre-prepared designs will lead to disqualification.
- Teams will be allowed to use **any CAD software** such as SolidWorks, AutoCAD, CATIA, Fusion 360, or any other preferred software.
- At the end of the event, teams will have to present their designs and justify their approach to the judges.

❖ **RC CHALLENGE:**

- A **race-based competition** where participants must navigate through a defined track in the shortest time possible.
- The race will follow either a **knockout format** or a **time-trial format**.
- RC Cars will be provided to the participants .
- The track will feature obstacles and checkpoints that must be followed.
- Each race will be monitored by event officials to ensure fair play.
- Any **external assistance** during the race will result in disqualification.
- The track may include turns, ramps, and speed bumps to increase the level of difficulty.
- Participants must complete the race without skipping any checkpoints.
- In case of a tie, an additional race may be conducted.

➤ **REGISTRATION FEES**

- **Rs. 50/- per member**
- Payment can be made via UPI or cash at the registration desk.

➤ **VENUE & TIMING**

- **Venue:** PCET'S PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, RAVET (PCCOER), PUNE – 412101.
- CAD-O-CREATE Venue :- CAD LAB 202
- RC CHALLENGE Venue :- Campus Parking

➤ **RULES & REGULATIONS**

❖ **CAD-O-CREATE RULES:**

1. Each team will be given **1.5 hours** to complete the CAD model.
2. Teams can use **any CAD software** (mention software if necessary).
3. Designs must be original and created within the competition timeframe.
4. The final model will be judged on **technical accuracy, creativity, and feasibility**.
5. Any team found violating the originality rule will be **disqualified**.
6. Teams will be given a short **5-minute presentation time** to explain their design.
7. Judges' decisions will be final and binding.

❖ **RC CHALLENGE RULES:**

1. The competition will follow a **race format** (knockout or time-trial).
2. RC Cars will be provided to the participants .
3. Participants must follow the defined track without missing checkpoints.
4. **Intentional damage** to other RC cars will lead to **immediate disqualification**.
5. External assistance or remote control interference is **not allowed**.
6. Each car must meet the size and weight regulations set by the organizers (if any specific constraints apply, they should be mentioned here).
7. The race will be conducted under **supervised conditions** to ensure fair play.

➤ **JUDGING CRITERIA**

❖ **For CAD-O-CREATE:**

- **Innovation & Creativity (30%)** – How unique and effective is the design?
- **Technical Feasibility (30%)** – Does the design follow real-world engineering principles?
- **Aesthetics & Presentation (20%)** – How well is the design structured and presented?
- **Accuracy & Detailing (20%)** – How precise and functional is the model?

❖ **For RC CHALLENGE:**

- **Speed & Time Taken (40%)** – How fast does the car complete the track?
- **Control & Maneuverability (30%)** – How well does the participant control the car?
- **Track Adherence (20%)** – Does the participant follow all checkpoints and track rules?

➤ **PRIZES**

- **1st Prize:** Rs. 5000/-
- **2nd Prize:** Rs. 3000/-
- **3rd Prize:** Rs. 2000/-

➤ **REGISTRATION DETAILS**

- Registrations can be done online or at the venue.
- Participants must provide valid ID proof at the time of registration.

➤ **CONTACT US**

For any queries, feel free to contact us:

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📣 **Join us for an action-packed competition where creativity meets speed! Show your skills, compete, and take home amazing prizes! 🏆 🚗**