



# CHEM-E-CAR

Voraciously Chem-E-Engineered Car

## Introduction

The Chem-E Car is a competition in which engineering undergraduate students are challenged to design and build a shoebox-sized car that is powered and stopped by *chemical processes*. The car does not compete in a race, but rather in an accuracy test. The car moves and stops at a set distance using controlled chemical processes. The winning automobile is the one that comes the closest to hitting the target solely based on chemistry.

## Prize Money

1st Prize: 3000

2nd Prize: 2000

3rd Prize: 1000

## Problem Statement

### Round 1

- The teams have to submit an Engineering Design Package (or EDP) of their working model by the posted deadline. Failure to meet the posted deadline will result in exclusion from the competition. The layout of the EDP is attached below. [W EDP Layout: Chem-e-Car .docx](#)

### Round 2

The teams have to run their working models on the specified track and execute the stopping mechanism for a specified distance. All the teams will be judged on the basis of how close their car gets to the endline in a specific amount of time and winners will be decided on this basis. The judges' decision will be final on all matters.

## Track Specifications

Kindly refer the following video and document: [Chem-E-Car](#) [track\\_figure.pdf](#)

*Disclaimer:* The mechanisms and track shown as above are purely on an example basis. Participants must note that mechanisms apart from the one shown in the above video are also acceptable.



## General Rules

Bring your college/student I-Card at the time of competition.

Decision Taken by Judges will be final and binding for all.

Any misbehaviour will lead you to disqualification from the competition.

If less than 30 teams will be registered, then only first prize will be given and if less than 50 teams will register, only two prizes will be given.

## Team Specifications

Team should be of 4 to 6 members.

Members of a team may be from the same college/school or different (K12/UG/PG).

Any number of teams can participate from one college/school.

Professionals are not allowed. Only students can participate.

Participants are required to bring their school/college ID cards.

Once registered, the same team cannot register with another name or for another model other than previously registered one.

Every team must have a unique name that should not be offensive, conflicting or inappropriate.

Organizers have the right to reject entries for any inappropriate team name.

Organizers must be notified if a team's name has been changed.

Team Representative: Each team must specify their Team Representative (Leader) at the time of registration on the website. All important communications between the organizer and the registered teams will be done through their Team Representative. The Team representatives must submit valid contact details (phone no., email id, etc.) at the time of registration.

If teams don't show up on allotted slot, they will be disqualified.

## Event Timeline

Round 1 (Virtual Mode)	Proof of Concept submission deadline	8 <sup>th</sup> April 2022
Round 2	Releasing list of shortlisted candidates	9 <sup>th</sup> April 2022
	On site event	15 <sup>th</sup> April 2022

## Registration Details

Registration window will open soon!