

# FORMULA MANIPAL

JANUARY 2025





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22/01/2025

# FORMULA BHARAT



## Brief Details About Formula Bharat Competition

Students design and build a single-seat, formula-style race car to compete against teams across India, aiming to deliver the best overall package in design, performance, and financial planning.

Formula Bharat challenges participants beyond conventional learning, pushing them to apply engineering, manufacturing, and economic strategy skills within the automotive industry. The race car must demonstrate strong driving characteristics such as acceleration, braking, and handling while remaining cost-effective, reliable, and well-engineered.

Teams must develop a vehicle that aligns with competition standards—balancing innovation, efficiency, and feasibility. A jury of industry experts evaluates each team based on design, cost analysis, and sales presentation before they put their self-built race cars to the test in real-world racing conditions.



### Total no. of Combustion Teams: 26

Competing against 26 combustion teams across India, students design and build a formula-style race car, balancing engineering, performance, and financial planning. Formula Bharat challenges them to innovate before industry experts evaluate their work and test their cars on track.

### Total no. of Electric Teams: 38

Competing against 38 electric teams across India, students design and build a formula-style race car, balancing engineering, performance, and financial planning. Formula Bharat challenges them to innovate before industry experts evaluate their work and test their cars on track.

## Team Achievements

We proudly present our following success

- **1st team** to clear Mechanical Inspection
- **2nd team** to clear Accumulator Inspection

## Static Events

We proudly present our following rankings

- Cost & Manufacturing - **3rd**
- Engineering Design - **3rd**
- **Best Powertrain Award**



# FORMULA BHARAT

# REPORTAGE



## OUR HARD WORK: FROM DESIGNING TO TESTING



Our team dedicated countless hours across summer, the semester, and winter vacations, working tirelessly to assemble the car and prepare it for testing. Through relentless effort and commitment, we ensured every component was in place. Overcoming challenges, refining designs, and optimizing performance, we pushed forward to make the project competition-ready.

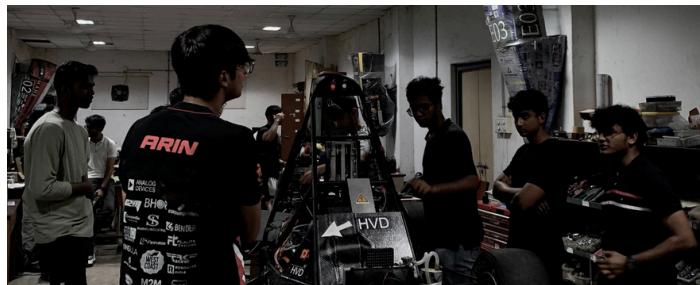
## ACHIEVEMENT IN STATIC EVENTS: DUAL QUALIFICATION

We worked hard on the Static Events and qualified for two out of three categories: Cost and Manufacturing, and Engineering and Design. Our team focused on precision and innovation, optimizing costs and refining design strategies. This achievement showcases our dedication, technical skills, and teamwork, pushing us to keep improving and aiming for excellence in every challenge.



## ARRIVAL IN COIMBATORE: GEARING UP FOR COMPETITION

On January 18, we reached Coimbatore and got straight to work in the hotel garage, fine-tuning the car for competition. Every detail mattered as we adjusted components, ensuring peak performance. The team worked tirelessly, refining and testing, determined to bring our best to the track. Late nights and teamwork fueled our drive for excellence.





# FORMULA BHARAT

## DAY WISE HIGHLIGHTS & UPDATES

### DAY 0

We arrived at Kari Motor Speedways in the morning, and got our team registered. Once that was done, we took our car to our designated pit, and arranged our things. We then focused entirely on completing the Accumulator Technical Inspection (TI), as no other Technical Inspections were open that day.



### DAY 1

Clearing ATI in the morning was a big win, but we couldn't pass Mechanical Inspection. Later, we attempted Electrical Inspection without the Accumulator but fell short. With FB requiring cars to stay on track overnight, however 8 members stayed back to work on the car.

### DAY 2

We became the first team to clear Mechanical Inspection. Then, we participated in Static events, starting with Cost & Manufacturing, followed by Engineering Design. Another attempt at Electrical Inspection without the Accumulator was made, but we couldn't pass.



### DAY 3

Two more attempts at Electrical Inspection without the Accumulator failed, but we succeeded on the third try. In the evening, the award ceremony for Static Events took place, and we proudly secured third place in both Cost & Manufacturing and Engineering Design.

### DAY 4

We attempted Electrical Inspection with the Accumulator but couldn't clear it before Technical Inspections closed. With no time left, our chances of hitting the track ended, but the team remained determined on learning from the experience.



### DAY 5

Dynamic events took place, but since we hadn't passed Technical Inspections, we couldn't compete. However, at the final award ceremony, our efforts paid off as we proudly secured an overall third-place finish, marking a strong achievement for the team.

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