TEAM CHIMERA

R.V College of Engineering

fb.com/ChimeraHybrid Team

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India's premier student formula hybrid and electric team.

WWW.TEAMCHIMERA.IN

WHO ARE WE?

OUR TEAM

Team Chimera is a Student Design Team involved in the design and development of formula style hybrid race cars. The prototypes developed, participate in the Formula SAE series held all over the world.
Started in the year 2006, the team has been consistently involved in research and development of hybrid and electric automotive technology.

ONGOING PROJECT

The team is now completely focusing on the project ***FORMULA GREEN*** where an electric formula car is being built from the scratch. This car will be participating in an international event in Germany.

PROJECT PROCESS

1

RESEARCH

2

DESIGN

The virtual disign and simulations are done.

3

FABRICATE

The car is fabricated from the scratch.

4

RACE

The electric formula car is thus made to race at the FSAE events.

Work on ways the car can be improved

MILESTONES

JULY 2009

Hybrid Auto Rickshaw Battle

Our business plan was adjudged the best and the project overall finished second.

MAY 2011

Challenge Bibendum

The only Indian team to successfully participate in Challenge Bibendum organized by Michelin in Berlin.

APRIL-MAY 2014

FSAE Hybrid - USA

First Asian team to participate. Stood 9th in the competition bringing back the Fan Favourite Award.

SEPTEMBER 2015

FSAE Electric - Italy

First venture into pure Electric cars after spending years in making Hybrid cars which made use of gas along with electricity for propulsion.

SEPTEMBER 2016

FSAE electric-Japan

With improved car E-VOLVE v2 we bagged ROOKIE AWARD-BEST DEBUTANT TEAM in the EV category

SEPTEMBER 2017

6th in Business presentation EV category

TECHNICAL SPECIFICATIONS

1. Power train:

65hp 3-phase induction motor 7500 rpm,
111Nm peak torque
CURTIS motor controller

2. Accumulator:

Accumulator voltage : 96V
Thirty cells in series, Li-ion cells with nominal voltage of 3.2V and peak voltage of 3.6V
Passive BMS (Battery Management System) designed by us.

3. Infotainment:

CAN connectivity. Seven inch LCD display

4. Ergonomics:

Dashboard Glass fiber insert

5. Upright:

CNC Machinery 6061 Aluminium Integral Caliper Mounts

6.Body:

Space-frame chassis made from AISI 1018 steel
Aerodynamic Glass Fiber Bodyworks with additional structures

7.Wheels:

175/60-13 Bridgestone Wet Tyres GTR Sports Mag Wheel

8.Drivetrain:

Limited slip Torsen Differential Driveshafts: Alloy steel with CV joint Chain drive (Duplex chain)

9. Suspension:

Double Wishbone-unequal length, non-parallel push rod actuated spring/damper for both front and rear.

10. Brakes:

Disc brakes
Apache 180 rtr calipers and disc

ESTEEMED SPONSORS

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