India's premier student formula hybrid and electric team.

WWW.TEAMCHIMERA.IN
WHO ARE WE?

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**
   - Work on what ways the car can be improved

2. **Design**
   - The virtual design 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.
MILESTONES

MAY 2011
Challenge Bibendum
The only Indian team to successfully participate in Challenge Bibendum organized by Michelin in Berlin.

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 2017
6th in Business presentation EV category

JULY 2009
Hybrid Auto Rickshaw Battle
Our business plan was adjudged the best and the project overall finished second.

APRIL-MAY 2014
FSAE Hybrid - USA
First Asian team to participate. Stood 9th in the competition bringing back the Fan Favourite Award.

SEPTEMBER 2016
FSAE electric-Japan
With improved car E-VOLVE v2 we bagged ROOKIE AWARD-BEST DEBUTANT TEAM in the 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

Curtis

HP

JSW

NEW FRONTIERS, NEW DREAMS

BHEL

Mahindra

REVA

TE

MAGOD

Laser

SolidWorks

Toradex

Agni

Sireesh Auto (PVT) LTD

Sensata Technologies

GEMINI FIBRE GLASS PVT. LTD.

ACCORD LASER
An ISO9001:2008 COMPANY

PRAKYATH

JSP ENTERPRISES