

HVC-2K16

We are 30 students formed into a team to participate in a national level event HYBRID VEHICAL CHALLENGE 2016 organised by IMPERIAL SOCIETY OF INNOVATIVE ENGINEERS (ISIE). Which is the second time conducting hbrid vehivle track race in Asia .

We have designed and fabricated a parallel hybrid transmission system, double wishbone suspension, ackermann geometry with rack and pinion steering and hydraulic disk brakes vehicle.

It's maximum speed is 70kmph and has a four variable gears which is a single seated racing car.

We have won second prize in skid pad test and overall 7th position out of 138 temas fom allover India.

The total cost for this vehicle is

- Transmission :90,000/-
- Steering :19,000/-
- Brakes :10,000/-
- Suspension and tyres :47,000/-
- Chasis :8,000/-
- Miscellaneous :25,000/-
- Registration fee :16,500/-
- Transportion :70,000/-

The total cost of the vehicle is 2,85,500 rupees only. And our college sponsored 70,000 rupees only.

RVR College of Engineering students design hybrid car

It will run at an event at RPM Racing Circuit, Bhopal

STAFF REPORTER

GUNTUR: Students of Mechanical Engineering Department in RVR & JC College of Engineering have given shape to their innovative ideas and designed a hybrid car all by themselves.

The students formed into a team, 'Falcon Racers', to design a hybrid car which runs on alternative energy sources for the 'Hybrid Vehicle Challenge' event to be organised by Imperial Society of Innovative Engineers from January 24 to 27 at RPM Racing Circuit, Bhopal in Madhya Pradesh.

Led by V. Anil Kumar, a student of third year mechanical engineering, his team designed the vehicle using double wishbone suspension which are often used in high-

end cars and hydraulic brakes, the standard in automobiles.

Principal A. Sudhakar said that the college management gave Rs.2 lakh in support of the venture.

Head of Department, Mechanical Engineering, K. Ravindra said that hybrid car was a high speed vehicle running on alternative battery power and it was energy efficient. While running on the engine, the motor would act as a dynamo and charges the

48 V battery. While the car is running, it charge the 12 V battery which would be used for auxiliary circuit.

Faculty members NVVS Sudhir, KRS Srinivasa Rao and K. Siva also assisted the students in the project.



Students of RVR & JC College of Engineering with the hybrid car designed. - PHOTO: T. VIJAYA KUMAR



