

TEAM HERITAGE

SAE EGA (TWO WHEELER HYBRID CHAMPIONSHIP)

SAE INDIA BENGALURU SECTION

A Two Wheeler Hybrid Championship organized by SAE India Bengaluru Section and TVS Motor Company. This event aims at design and fabrication of a Hybrid Two Wheeler. Team HERITAGE from our college participated in this event and has cleared the virtual round standing 6th in state on 14th of October, 2017 held at TVS IQL, Anekal, Bengaluru. The Team will be taking part in the Final Event on March 2018.

The development of automobiles with heat engines is one of the greatest achievements of modern technology. However, the highly developed automotive industry and the large number of automobiles in use around the world have caused and are still causing serious problems for society and human life. Deterioration in air quality, global warming, and a decrease in petroleum resources are becoming the major threats to human beings. More and more stringent emissions and fuel consumption regulations are stimulating an interest in the development of safe, clean, and high-efficiency transportation. It has been well recognized that electric, hybrid electric, and fuel cell-powered drive train technologies are the most promising solutions to the problem of land transportation in the future.

At the present age, majority of the two wheelers are powered by IC Engines. Even though they provide high power and are convenient, they lack fuel efficiency and are a main source of air pollution. Hence, to overcome these problems, the IC Engine powered two wheelers can be replaced by Eco Friendly Hybrid Two Wheelers. Hybrid two wheelers are propelled by a combined effect of IC Engine and Electric Motor which makes the vehicle dynamic in nature. Hybrid Vehicles have better fuel efficiency compared to IC Engine powered vehicles and reduce Air pollution by a great extent. The objective of this competition is to design and fabricate a **PARALLEL HYBRID ELECTRIC TWO WHEELER** powered by both gasoline and battery. Battery alone provides the power for low speed driving condition. In long highways or hill climbing, the electric motor provides additional power to assist the IC Engine.

TEAM MEMBERS:

- 1) KEERTHAN S – Mech
- 2) CHETHAN C - Mech
- 3) PRAMOD KARANTH - Mech
- 4) SHASHANK NAMBIAR – EEE
- 5) ESHWAR S - Mech
- 6) AKHILESH – ECE
- 7) KARTHIK P K - ECE
- 8) PRASAD JOSHI - Mech
- 9) SANJEEV S - Mech
- 10) ANIRUDDHA SANKOLI - EEE
- 11) CHARAN M J -EEE
- 12) VINAY M K - ECE
- 13) AKHILESH C – EEE

FACULTY ADVISORS:

- 1) Dr. G MALLESH
Associate Professor
Dept. Of Mechanical Engineering
SJCE, Mysuru.
- 2) Mr. PRADEEPKUMAR V G
Dept. Of Mechanical Engineering
SJCE, Mysuru.