

This Project is about the Design and fabrication of Retro Fit Electric Bike, as per the norms and regulations of Skill Employability 2nd Season of E-Bike Challenge-2021, powered by Hero Electric, organized by Imperial Society of Innovative Engineers – ISIE INDIA, with the Society of Manufacturers of Electric Vehicles –SMEV being the Principal Industrial Partner.

The innovative feature of this fabricated E-Bike is a dashboard which shows the speed, battery charge level and temperature of the battery. The chassis of the Bike has been modified as per the requirements, to hold the relevant battery with hub motor for power transmission. This battery can perform in the range of 60-70km per charge, which varies based on speed, on a 3-mode run-top speed of 80km/hr.

The fabricated E-Bike has undergone technical inspections and brake tests such as Acceleration Test, Sled Pull Test, Hill Climb Test, Off Road Test, Real Time Parking, Self-Balanced Run, Vehicle Run Based on Modes and Durability Test. Our team of students have won four awards, namely for Best Design and Aesthetics, for the Best Hill Climb Test, Best Speed Limiter and Future Award.



22 PROJECT

DESIGN AND FABRICATION OF ELECTRIC BIKE

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