

THE
AGE
OF



S.P.B PATEL ENGINEERING COLLEGE
SAFFRONY INSTITUTE OF TECHNOLOGY
AUTOMOBILE & MECHANICAL ENGINEERING DEPARTMENT

PRESENTS

5 DAYS WORKSHOP [7th June 2021 to 11th June 2021]

ON

HYBRID ELECTRIC VEHICLES



Automobile

It was not long ago when there were questions on the viability of autonomous and electric vehicles in India, especially in the backdrop of insufficient infrastructure and lack of favorable policies. However, things seem to be changing rapidly now. 2021 seems to be the year that may witness an upward trajectory in the market for autonomous vehicles and EVs. There are several reasons for a positive outlook despite 2020 being the year when growth in the EV market slowed globally, largely due to the pandemic-induced lockdown.

Hybrid Vehicles

A hybrid vehicle uses more than one type of power source. The most common types of hybrid vehicles use a combination of an internal combustion engine (ICE) and an electric motor. Hybrid vehicles are designed for better fuel efficiency, more power, and minimum emissions. These vehicles capture electrical energy produced from different sources, such as regenerative braking systems and engines. They can conserve energy by shutting down the engine when the car is parked, idle, or when the electric motor's energy is sufficient to drive the vehicle without assistance from the ICE.



Electric



Petrol



Diesel

203

203 Billion \$

Automotive Industry

Is hoping on HEVs

Experts

Prof. Kunalsinh Kathia
(Mechanical Engineering Department)

Prof. Nirav Joshi
(Electrical Engineering Department)

Saffrony Institute of Technology