

**S. P. B. Patel Engineering College
Saffrony Institute of Technology
Automobile and Mechanical Engineering Department
5-Days workshop on Hybrid Electrical Vehicles**

Time	Monday 7-June-2021	Tuesday 8-June-2021	Wednesday 9-June-2021	Thursday 10-June-2021	Friday 11-June-2021
10:00 AM to 12:00 PM	Basics of Automobile Powertrain systems Conventional Electric Hybrid (Prof. Kunalsinh Kathia)	Basics to Advance of Automotive Batteries & Motors (Prof. Nirav Joshi & Prof. Kunalsinh Kathia)	Advancements In Automobile (Advance Conventional and Hybrid Powertrains) (Prof. Kunalsinh Kathia)	Multilevel Inverters (Prof. Nirav Joshi)	Close loop simulation of MLI feeding load in MATLAB (Prof. Nirav Joshi)
12:00 PM to 1:00 PM	Recess	Recess	Recess	Recess	Recess
1:00 PM to 2:30 PM	Basics of Electrical Cars (Electrical components) MATLAB Introduction PSIM (Prof. Nirav Joshi)	Hands on session: MATLAB & PSIM Theory & Simulation of Power Electronic Converters used in EV (Prof. Nirav Joshi)	Hands on session: Automotive Design in Autodesk 360 (Prof. Kunalsinh Kathia)	Hands on session: MATLAB & PSIM Simulation of Multilevel inverters with Gate circuit design (Prof. Nirav Joshi)	Simulation Based Mini Project (Prof. Kunalsinh Kathia & Prof. Nirav Joshi)
2:30 PM to 4:30 PM	Activity based Assignment	Activity based Assignment	Activity based Assignment	Activity based Assignment	