

# Electric Vehicle Lab Solutions

## BLDC Motor training System



BLDC Motor Training System is an adaptable training system for the Electrical laboratories. It can be aptly employed for the underlying principles for the working of a BLDC motor. In case of a brushed DC motor, feedback is implemented using a mechanical commutator and brushes. With a in BLDC motor, it is achieved using multiple feedback sensors. The most commonly used sensors are hall sensors and optical encoders. The speed of BLDC motor can be control by using PWM method; direction change and braking system also apply through feedback sensor.

The product provides experiments like Speed control, Torque-Speed Characteristics, N-I Characteristics, Direction change and Braking system etc. Thus it also provides explicit understanding of the subject.

## DIY Electric Vehicle Training System

This trainer provides students and instructors with the opportunity to demonstrate, investigate, and fault- find a simulation of an Electric vehicle system. The trainer is designed to allow access to a simulation of the mechanical operation as well as provide a mimic of the electrical power flow. The panel also includes test points at a safe voltage level to allow for the investigation of electrical circuits. To facilitate the development of techniques in diagnostics and fault-finding skills, the panel includes a range of fault-insertion options to simulate typical real-world system malfunctions.



## 2W Electric Vehicle Training System



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## Fully operational Electric Vehicle Trainer (EV). Battery Capacity 41 BHP Mahindra E Verito



## Fully operational Electric Vehicle Wiring and Lighting System Trainer 12V

This demonstration board is consisting of the actual wiring with parts and accessories of a car had been arranged according to the electrical circuit of a car and terminals are to be provided to connect the battery. By giving connections, the working of individual parts, such as wiper motor, with windscreen, Horn, head light, tail Light, Parking Light, brake light. A dashboard with key and switches also provided for control the circuit.



## HVAC Demo Kit HVAC tutorial model



Actual working model of Air condition system. 2HP Single phase motor fitted for drive of Compressor and Alternator. Complete wiring circuit provided for AC system along with Switch board. All the accessories fitted with this model such as AC Compressor, Condenser, Blower motor, Evaporator coil, Pipeline, Alternator and Motor all the parts brand new. Water heater provided for heating of the system. Heating system provided for the model, LP and HP line pressure gauges are provided with this model. Model is mounted on power-coated iron trolley for better handling

## Air bag simulator

Actual Air Bag Set of Two We are mounted on model such as Steering wheel and 2 no's of dash board airbags, Simulation of inflate and deflate the air bags are done by pneumatic pressure, Model is fitted along with all the Actual Accessory's such as Complete Wiring Harness with Drivers and Co-Drivers Air Bag, Seat Belts, Crash Sensor with Air Bag Modulator/ECU,Air bag modulator and its wiring connections are fitted with the model.



## Electric Power Steering



Actual Cut section model of Electric Power-steering gear box MDPS, Electric Assisted Power Steering with Rack and pinion, Electric Motor and Motor Control Module, Model is mounted on Powder-coated iron stand.

**\*\*Please feel free to share your requirements by filling your details in ask query section on the website, we will be happy to cater your requirement.**