

Automotive Electronics Course Content

Session-1 : Electricity and Electronic Engine Controls

- Electricity
- Magnetism
- Ohm's Law
- Electronic and Semiconductors Devices
- Microprocessor
- Memory
- Electronic Engine Control

Electronic Fuel Injection Systems

- Air-Fuel Ratio and Stoichiometric Ratio
- Injectors
- Sensors
- Actuators in port and TBI Systems
- Electronically Controlled Feedback Carburetors
- Testing Mixture-Control Solenoid

Session-2 : Automotive Electrical and Electronic Equipment

- Electrical Circuit Components
- Symbols
- Wiring Diagrams
- Basic Electrical Diagnosis
- Tests and Measurements
- Automotive Battery Construction and Service
- Starting System
- Charging System
- Contact-Point Ignition System
- Electronic Ignition Systems
- Lights, Safety, and Driver Information Controls

Session-3 : Overall Controlling of Vehicle

- Electronic Shift Controls in Automatic Transmission
- Electronic Ride Control and Air-Suspension Systems
- Electronic Power Steering
- Electronic Control in Automotive Clutches
- Sensors and Actuators

Session-4 : Components Exhibition

- Wiring Diagrams in a Car
- Traction Control Systems

Quiz Competition