

Course Title: Automotive Technology

Course Code: EEA 129

Course Background / Summary:

This course will give exposure to the participants on the fundamentals of automotive technology such as drive line, drive train, vehicle construction and application of vehicle functions. This course will also cover the basic knowledge in automotive electrical systems, equipment and their working details. The topics include starting system, charging system, ignition system, lighting and signalling system, other automotive electrical accessories. In the final module, participants will be given exposure on the new cutting-edge technology of hybrid electric vehicles.

Course Objectives:

- Evaluate mechanical packaging of driveline such as engine position, differential, axle, suspension system, brake system, fuel tank and cooling system.
- Interpret the layout of wiring and perform installation connections of electrical systems in automobiles.
- Describe the basic topologies of hybrid vehicles system and its components.

Target Audience:

- Engineers, Fresh Graduates, Retiree, Automotive Hobbyist

Course Duration: 3 Days

Course Contents

1.0 Vehicle Chassis

2.0 Driveline

3.0 Automotive Electrical and Electronics System

4.0 Introduction to Hybrid Vehicles