

97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	車輛電子學	Serial No. / ID	0713 / MAI2050
Dept.	機械與自動化工程學系	School System / Class	大學日間部2年5班
Lecturer	張一屏	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(二)5 / H440 (四)78 / H440	Language	Chinese

Introduction

Let the student familiar fundamental principles and system elements for vehicle electronic control system so that the design purpose and the matching between systems can be achieved. By introducing the content of the course, the electronic elements can be integrated with electric circuits and automatic control to realize the restriction and design consideration for vehicle electronic control system.

Outline

Introduction, Vehicle Control System and Instrumental System, Review for electronic and electrical circuit, Microcontroller, Vehicle microcontroller system control, Engine Management system, Sensors and Actuators, Digital ignition system, Electronic fuel injection system, Idle speed control and exhaust gas recirculation system, Vehicle Motion control system, CAN bus and intelligent vehicle control system, Vehicle diagnosis system.

Prerequisite

Physics
Electronics
Automatic Control
Electric Machinery