

102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	車輛感測器原理與實務	Serial No. / ID	2131 / MAV3053
Dept.	機械與自動化工程學系	School System / Class	四技部3年1班
Lecturer	張一屏	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)567 / H439	Language	Chinese

Introduction
<p>Teach the fundamental principles of automotive sensors used in powertrain and chassis electronic control system. The troubleshooting and diagnosis of the sensors used in the automotive are introduced and the testing requirements and validation methods are introduced.</p>

Outline
<p>Introduction of automotive sensors</p> <p>Powertrain system sensors</p> <p>Pressure sensors</p> <p>Temperature sensors</p> <p>Rotation and Vehicle speed sensors</p> <p>Flow rate sensors</p> <p>Concentration sensors</p> <p>Chassis electronic system sensors</p> <p>Vehicle motion sensors</p> <p>Load cell and torque sensors</p> <p>Displacement and accelerometers</p> <p>Gyroscopic sensors</p> <p>Radar relative distance sensors</p> <p>Sensors for Advanced Safety Vehicles</p> <p>Sensors for autonomous vehicles.</p>

Prerequisite
<p>Electronics</p> <p>Automotive Mechanics</p>