

100-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	機電整合	Serial No. / ID	0573 / MAI2014
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年1班
Lecturer	張義芳	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(一)34 / H440 (三)2 / H440	Language	Chinese

Introduction
Provide an understanding of the mechatronics such as the follows: <ol style="list-style-type: none">1. Basic concept of the kinematics and dynamics of a machine,2. Basic concept of the driving theory of a motor.3. Basic concept of the structure and operation of the hydraulic and pneumatic system.4. Basic concept of the sensors and the measurement method.5. Basic concept of the relay logic and switching theory.

Outline
<ol style="list-style-type: none">1. Introduction to Control Systems2. Introduction to Microprocessor-Based Control3. Introduction to Electromagnetism4. Mechanical Systems5. Sensors6. Actuators: Electric, Hydraulic and Pneumatic7. Switches, Relays and Power-Control Semiconductors8. Direct Current Motors`9. Stepper Motors10. Alternating Current Motors

Prerequisite
Automatic Control, Engineering Mechanics II,