

102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	機電整合	Serial No. / ID	2038 / MAB3009
Dept.	機械與自動化工程學系	School System / Class	進修學士班3年1班
Lecturer	陳國祥	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(一)AB / H440 (四)B / H440	Language	Chinese

Introduction
Study the theory and concepts of mechatronics. Various considerations of practical applications including tools, instrumentation, design issues, automatic control, and industrial techniques.

Outline
Control system Basic components, sensors, wiring, motors, motor control circuits, and mechanical parts. Control strategies and controller types Programmable Logic Controllers. Linear and rotational motion, springs, friction, gears, levers, heat transfer Digital controllers Inductive proximity sensors, ultrasonic flow sensors, and cascade control AC variable frequency motor drives PID control AS-I sensor factory network.

Prerequisite
Physics