

97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	數位控制系統與實驗	Serial No. / ID	0411 / ADR5064
Dept.	機械與自動化工程學系博士班	School System / Class	研究所博士班1年1班
Lecturer	蔡耀文	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(二)3 / H824 (四)34 / H824	Language	English

Introduction
<ol style="list-style-type: none"> 1. Concept of Digital Control System 2. Mathematics of Digital Control System 3. Analysis methods of Digital Control System 4. The controllers design of Digital Control System 5. Experiment of Digital Control System

Outline
<ol style="list-style-type: none"> 1.Experiment: Introduction to LabVIEW 2.Experiment: A/D converter 3.Experiment: D/A converter 4.Experiment: Sensor(Encoder) 5.Experiment: Motor control 6.Experiment: Final test 7.Discrete-Time Systems and the z-Transform 8. Discrete-time System Analysis 9. System Time-Response Characteristics 10. Stability Analysis 11. Digital Controller Design 12. State-Space Method

Prerequisite
Automatic control