

## 98-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	數位控制系統與實驗	Serial No. / ID	1427 / MUR5026
Dept.	機械與自動化工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	蔡耀文	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(一)8 / H824 (三)56 / H824	Language	English

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

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

Prerequisite
Automatic control