

# 102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	自動控制	Serial No. / ID	0781 / MAI2005
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年1班
Lecturer	羅正忠	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(一)34 / H440 (二)2 / H440	Language	Chinese

Introduction
<ol style="list-style-type: none"><li>1.Review mathematic background for automatic control.</li><li>2.Set up basic concept for system modelling.</li><li>3.Establish the time domain analysis method.</li><li>4.Establish the frequency domain analysis tools.</li><li>5.Learn how to design a controller.</li></ol>

Outline
<ol style="list-style-type: none"><li>1.Introduction</li><li>2.Mathematical foundation.</li><li>3.Block diagrams and signal-flow graphs</li><li>4.Modeling of physical systems</li><li>5.State variable analysis</li><li>6.Stability of linear control systems</li><li>7.Time-domain analysis of control</li><li>8.Root-locus technique</li><li>9.Frequency domain analysis</li></ol>

Prerequisite
Engineering Mathematics