

97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	振動學	Serial No. / ID	0729 / MAI3037
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年5班
Lecturer	劉大銘	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(二)9 / H439 (四)89 / H439	Language	Chinese

Introduction
<ol style="list-style-type: none">1. intro the phenomina and its effect on product and human being.2. The major concern is on discrete model such as mass-spring-damper system.3. Subjects include the free and forced vibration from 1-dof to multi-dof, modal analysis, and vibration isolation techniques

Outline
<p>part 1 : vibration scopes and terms、 EOM(ch1,7)</p> <p>part 2 : 1-dof free and forced vibration(ch2,3)</p> <p>part 3 : 2-dof free and forced vibration, modal analysis(ch5)</p> <p>part 4 : multi-dof free and forced vibration,modal analysis(ch6)</p> <p>part 5 : vibration isolation and associated sensor and equipment(ch.9,10)</p> <p>part 6 : 1-dof transient vibration(ch4)</p>

Prerequisite
English reading, Engineering mechanics, Engineering mathematics(ODE, Linear algebra)