

100-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	機械設計(一)	Serial No. / ID	1035 / MAV2007
Dept.	機械與自動化工程學系	School System / Class	四技部3年1班
Lecturer	鄭鴻儀	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(二)34 / H303 (三)2 / H303	Language	Chinese

Introduction
<p>This course introduce the basic design concepts for machine elements. The main goals are:</p> <ol style="list-style-type: none">1. understand the procedures and concepts about machine element design.2. understand the characteristics of various engineering materials and their applications.3. understand how to analyze the stress and deformation of machine elements.4. Failure modes of machine elements

Outline
<ol style="list-style-type: none">1. Introduction to Design2. Materials3. Stress and Strain4. Deflection and Impact5. Energy Methods in Design6. Buckling Design of Members7. Failure Criteria and Reliability8. Fatigue

Prerequisite
Mechanics of Materials