98-2 Preliminary Syllabus, Da-Yeh Univ

Information				
Title	材料力學	Serial No. / ID	1363 / MAV2006	
Dept.	機械與自動化工程學系	School System / Class	四技部2年1班	
Lecturer	紀華偉	Full or Part-time	專任	
Required / Credit	Required / 3	Graduate Class	NO	
Time / Place	(四)3 / H444 (五)12 / H444	Language	Chinese	

Introduction

Understanding is based on the explanation of the physical behavior of materials under load and then modeling this behavior to develop the theory. Emphasis is placed on the importance of satisfying equilibrium, compatibility of deformation, and material behavior requirements.

This course has the goal to cover

1. Provide a research of the theory of the stress and strain of normal and shear.

2. Provide some understanding of the mechanical properties of materials such as stress-strain diagram, ductile and

brittle materials, Hooke's law and strain energy.

3. Provide a research of stress and strain of combined loadings.

4. To be familiar with the application of mechanics of materials in mechanical system.

Outline

1. Stress

2. Strain

3. Mechanical Properties of Materials

4. Axial Load

5. Torsion

6. Bending

7. Transverse shear

8. Combined loadings

Prerequ	uisite		
物理、	微積分、	英文閱讀能力、	靜力學