朝陽科技大學 092學年度第2學期教學大綱
Mechanics of Material 材料力學

當期課號	1006	**Course Number**	1006
授課教師	干裕成	**Instructor**	KAN,YU CHENG
中文課名	材料力學	**Course Name**	Mechanics of Material
開課單位	營建工程系(四日)一A	**Department**	
修習別	必修	**Required/Elective**	Required
學分數	3	**Credits**	3
課程目標	材料力學爲土木工程之重要基礎學科，舉凡土壤力學、鋼筋混凝土學、結構學.....等，均需具備良好的材料力學觀念，本課程旨在建立營建系學生所需具備之材料力學基礎，主要包括拉力、壓力、扭力、剪力、彎曲力矩、應力、應變、撓度及柱等。	**Objectives**	Mechanics of materials is a basic subject in construction engineering. This course provides an opportunity to accomplish two things: first, to teach students a basic engineering subject and, second, to develop their analytical and problem-solving abilities. The main topics of this course include the analysis and design of structure members subjected to axial loads, torsion, shear and bending, as well as such fundamental concepts as stress, strain, elastic and inelastic behavior. Other topics of general interest are the transformations of stress and strain, deflection of beams and behavior of columns, and so on.
教材	課堂授課及定期測驗	**Teaching Materials**	Recitation and quiz
成績評量方式	1、三次期中考試：20分 x 3 = 60分 2、期末考：25分 3、作業與出席成績：15分	**Grading**	3 quizes(20% each), final exam(25%), homework and other performance(15%)
教師網頁			
教學內容	材料力學爲土木結構工程設計之重要基礎學科，舉凡土壤力學、鋼筋混凝土學、結構學.....等，均需具備良好的材料力學觀念，本課程旨在建立營建系學生所需具備之材料力學基礎，內容包括拉力、壓力、剪力、扭力、彎曲力矩、應力、應變、撓度及柱等。	**Syllabus**	This course is designed for students to have fundamental knowledgement for structural design, including the topics of tension, compression, shear, torsion, moment, stress and strain, deflection and column.

尊重智慧財產權，請勿非法影印。