朝陽科技大學 091學年度第2學期教學大綱
Mechanics of Material 材料力學

當期課號	1005	Course Number	1005
授課教師	林基源	Instructor	LIN,JI YUAN
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	4	Credits	4
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	課堂講解，配合小考督促學習，藉由考試驗收成果。	Teaching Materials	1. Illustrations 2. Ordinarily examination 3. Middle term and final examinations
成績評量方式	1.二次期中考、一次期末考：25分 x 3 = 75分 2.平時考若干次：25分 3.平時成績：-20分～+10分 （含出席、課本與筆記書寫內容、課堂表現、問題提問、特殊事蹟.....等）	Grading	1.Middle term exams (1)(2), final exam：25% x 3 = 75% 2.Ordinarily exam：25% 3.Ordinarily achievement：-20%～+10% （含出席、課本與筆記書寫內容、課堂表現、問題提問、特殊事蹟.....等）
教師網頁	_		
教學內容	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。拉力、壓力、剪力、扭力、彎曲力矩、應力、應變、撓度及柱等。	Syllabus	Mechanics of materials is a basic engineering subject that must be understood by anyone concerned with the strength and physical performance of structure, whether those structures are man-made or natural. The subject matter includes such fundamental concepts as stresses and strains, deformations and displacements, elasticity and inelasticity, strain energy, and load-carrying capacity. These are the concepts that underlie the design and analysis of a huge variety of mechanical and structural systems.

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