朝陽科技大學 093學年度第1學期教學大綱
Mechanics of Material 材料力學

當期課號	6004	Course Number	6004
授課教師	伍勝民	Instructor	WU,SHENG MIN
中文課名	材料力學	Course Name	Mechanics of Material
開課單位	營建工程系(二進)三A	Department	
修習別	選修	Required/Elective	Elective
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	1)鋼結構極限設計法規範及解說,營建雜誌社 2)LRFD Steel Design, william T. Segui(參考) 3)Alsc Manual of Steel Construction, LRFD, 3rd Ed.(參考)	Teaching Materials	
成績評量方式	1、 三次小考：10分 □ 3□ 30分 2、 期中考：30分 □ 1□ 30分 3、 期末考：30分 □ 1□ 30分 4、 出席及學習成績：10分	Grading	Midterm Examination ─ 30% Final Examination ─ 30% Quiz and Assignment ─ 30% Attendence 10%
教師網頁	_		
教學內容	拉力、壓力、剪力、扭力、彎曲力矩、應力、應變、撓度及柱等。	Syllabus	Concepts in structural steel design,Steel properties and cross-sectional shapes,Tension members,Connections members. Compression members,Midterm Examination Flexural members, Beam-columns. Connections, Final examination.