朝陽科技大學 093學年度第2學期教學大綱
Advanced Mechanics of Materials 高等材料力學

當期課號	1052	Course Number	1052
授課教師	干裕成	Instructor	KAN,YU CHENG
中文課名	高等材料力學	Course Name	Advanced Mechanics of Materials
開課單位	營建工程系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程探討進階材料力學理論及應用，內容包括雙軸應力應變問題、非線性應力應變關係、彈性基礎上之樑、薄膜理論、破壞理論、樑的撓曲分析、同軸構件分析、挫屈問題等。	Objectives	This course introduces the advanced topics in mechanics of materials, including biaxial stress and strain, nonlinear deformation, beam on elastic foundation, membrane theory, failure theory, flexural analysis of beam, axial cylinder and thin disc, bucklin.
教材	Mechanics of materials, 5th edition, Editer: James M Gere	Teaching Materials	
成績評量方式	平時表現10%、作業20%、平時考20%、期中考20%、期末考30%	Grading	Performance 10%, homework 20%, quiz 20%, midterm 20%, final 30%
教師網頁			
教學內容	本課程進一步探討應力及應變分析、材料非線性、彈性基礎、薄膜理論、破壞理論、撓曲分析、同軸圓柱及薄碟分析、挫曲問題	Syllabus	Advanced mechanics of materials including stress-strain analysis, nonlinear problem, fundamental elastic foundation, membrane theory, failure mechanics, flexural analysis, axial cylinder and thin disc and buckling problem.

尊重智慧財產權，請勿非法影印。