

朝陽科技大學 099學年度第1學期教學大綱  
Fracture Mechanics 破壞力學

當期課號	7181	Course Number	7181
授課教師	干裕成	Instructor	KAN,YU CHENG
中文課名	破壞力學	Course Name	Fracture Mechanics
開課單位	營建工程系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程使學生瞭解地盤改良之各工法與及其主要影響因素，並介紹夯實改良工法, 排水改良工法, 混拌改良工法, 加勁式改良工法等地盤改良之工法。	Objectives	This course introduces the fundamental theory of fracture mechanics. Its content will relate to the applications on various materials and structures. Construction materials such as steel and concrete will be the main topics discussed in this course. Recitation and laboratory assignment are designated in this course
教材	1. Fracture Mechanics of Concrete by S. P. Shah, S. E. Swartz and C. Ouyang	Teaching Materials	1. Fracture Mechanics of Concrete by S. P. Shah, S. E. Swartz and C. Ouyang
成績評量方式	作業 (20%) 平常考 (40%) 專題製作 (30%) 課堂表現 (10%)	Grading	Homework (20%) Quiz (40%) Project (30%) Performance (10%)
教師網頁	-		
教學內容	此課程在於使學生進一步瞭解常用工程材料之破裂行為及理論。內容將介紹各種破壞理論, 包括應力集中及疲勞等常見之材料破壞機理；並透過專題製作，針對不同材料可設計不同試件進行試驗或模擬分析演練；加深同學對材料破壞過程的體驗。	Syllabus	This course introduces the fundamental fracture mechanics theory and its application in engineering design and analysis. Other topics including stress concentration and fatigue. Each student will complete a special topics relating in this class.

尊重智慧財產權，請勿非法影印。