

朝陽科技大學 093學年度第1學期教學大綱  
Constitutive Model for Geotechnical Materials 土壤組成模式

當期課號	7040	Course Number	7040
授課教師	許世宗	Instructor	HSU,SHIH TSUNG
中文課名	土壤組成模式	Course Name	Constitutive Model for Geotechnical Materials
開課單位	營建工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	土壤組成模式係一般土壤力學之延伸，本課程之重點在讓學生對土壤應力-應變行為模式有更進一步瞭解與認識，對於學生在大地工程之數值分析研究上有更進一步之幫助。內容包括：應力與應變張量、降伏準則、應力與應變關係、塑性理論和土壤模式。	Objectives	This course is the continuity of soil mechanics. The focus of this course is to promote student to understand the stress and strain behaviour of soil, and help student to study the numerical method of geotechnical engineering in futher. This course contains stress and strain tensor, yield criteria, relation of stress and strain, theory of plasticity, and soil model.
教材	1. Chen, W. F. and Han, D. J. (1988). "Plasticity for Structural Engineers" 2. Atkinson, J. H. and Bransby, P. L. (1977). " The Mechanics of Soils-An Introduction to Critical State Soil Mechanics"	Teaching Materials	
成績評量方式	1.期中考 (30%) 2.期末考 (40%) 3.作業 (15%) 4. 期末報告(15%)	Grading	1. Midterm (30%) 2. Final (40%) 3. Homework (15%) 4. Term Paper (15%)
教師網頁	-		
教學內容	單軸塑性行為 應力與應變張量 降伏準則 土壤組合律	Syllabus	Uniaxial behavior in plasticity Stress tensor and strain tensor Yielding criterion Theory of plasticity Constitutive equations for soil materials

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