朝陽科技大學 094學年度第1學期教學大綱
Soil Mechanics 土壤力學

當期課號	1487	**Course Number**	1487
授課教師	林商裕	**Instructor**	LIN,SHANG YUH
中文課名	土壤力學	**Course Name**	Soil Mechanics
開課單位	營建工程系(四日)二A	**Department**	
修習別	必修	**Required/Elective**	Required
學分數	3	**Credits**	3
課程目標	土壤爲一種不均質的材料，本課程首先探討土壤的組成、種類與結構，繼而針對土壤的物理性質進行土壤分類，再探討土壤的滲透性、壓縮性與剪力強度等工程特性。	**Objectives**	Nature soil deposits are not homogeneous in nature. Soil mechanics is the fundamental subject of geotechnical engineering, and its applications to foundation analysis and design have been extensive during the 20th century. This course covers the properties of soil, such as its origin, grain-size distribution, ability to drain water, compressibility, shear strength and so on.
教材	Principles of Geotechnical Engineering, B. M. Das, 4th edition, PWS Publishing, 1998. (大地工程原理, 黃安賓譯, 東華書局代理, 1998).	**Teaching Materials**	
成績評量方式	作業 10%.出席率及學習態度 10%.一般小考 10%*2=20%.期中考 30%.期末考 30%.	**Grading**	1.assignments 10%. 2. study attitudes 10%. 3. oral exams 10%x 2 = 20%. 4. mid & final exams 30% x 2 = 60%.
教師網頁	http://www.cyut.edu.tw/~sylin		
教學內容	土壤與顆粒分佈曲線、重量-體機關係、土壤之塑性與結構、土壤分類、水在土壤中之流動:滲透性與滲流、有效應力之觀念、土體中之應力、壓密、土壤之剪力強度。	**Syllabus**	Soil Deposits and Grain-Size Analysis; Water-Volume Relations, Plasticity, and Soil Classifiction; Movement of Water through Soil-Hydraulic Conductivity and Seepage; The concept of Effective Stress; Stress in a Soil Mass; Consolidation; Shear Strength of Soil.

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