朝陽科技大學 097學年度第1學期教學大綱
Soil Mechanics 土壤力學

當期課號	1621	Course Number	1621
授課教師	徐松圻	Instructor	HSU,SUNG CHI
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	1.“大地工程原理”第五版 Braja M. Das著，黃安斌譯，東華書局 2.“ Principles of Geotechnical Engineering ”, Fifth Edition, Braja M. Das著，新月圖書公司代理	Teaching Materials	Principles of Geotechnical Engineering ”, Fifth Edition, by Braja M. Das
成績評量方式	1.上課出席率與作業10% 2.二次小考:30% 3.期中考30% 4. 期末考30%	Grading	1.Attendance and Homework 10% 2.Two Quizes:30% 3. Mid Term Exam 30% 4. Final Exam: 30%
教師網頁			
教學內容	土壤力學爲土木工程之一重要科目，針對工程之需要，學生需熟悉其物理性質及工程力學分析，教學內容包括1.土壤之基本物理性質，包括指數性質與土壤分類等 2.分析土體之工程性質，包括滲透性、壓縮性與剪力強度	Syllabus	Soil mechanics is the most basic course for the geotechnical engineering and is the basis for the foundation engineering course. This course will cover the origin of soils, grain-size distribution, soil classification, drainage properties of soils, compressitity, shear strength, and load-bearing capacity.

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