朝陽科技大學 091學年度第1學期教學大綱
Soil Mechanics Lab. 土壤力學試驗

當期課號	1076	Course Number	1076
授課教師	林基源	Instructor	LIN,JI YUAN
中文課名	土壤力學試驗	Course Name	Soil Mechanics Lab.
開課單位	營建工程系(四日)三A	Department	
修習別	必修	Required/Elective	Required
學分數	1	Credits	1
課程目標	土壤爲工程材料的一種，針對工程分析設計之需要，學生需熟悉土壤之物理、滲透、以及力學等各種性質。故本課程之主要目的乃在使學生熟悉「土壤力學」課程中所提到的各項實驗方法、以及如何正確求得各種土壤參數，以作爲各種大地工程分析設計之參考。	Objectives	The main purpose of this course is to teach the students how to measure the properties of soils. This course starts with an introduction to methods of subsoil exploration. Additional topics covered in this course including: tests for the index properties of soils, compaction quality control tests of soils for engineering purposes, and tests to obtain the mechanical properties, such as hydraulic conductivity, compressibility and shearing strength of soils.
教材	理論介紹配合儀器操作講解，學生實際進行實驗操作	Teaching Materials	1. Illustrations for soil laboratory tests by teacher 2. Performence for soil laboratory tests by students 3. Report writing 4. Examination
成績評量方式	1.預習報告20分 2.實驗結果報告50分 3.期末考試30分 4.平時成績(出席、上課情形、實驗精神) －50~＋10分	Grading	1. Preview report (20%) 2. Test-result report (50%) 3. Final Examination (30%) 4. Present (-50%~+10%)
教師網頁			
教學內容	使學生熟悉「土壤力學」課程中所提到的各項實驗方法及土壤基本性質與土壤參數的求得，內容包括 一、土壤試驗導論及介紹 二、土壤基本物理性質試驗 三、土壤工程品質控制試驗 四、室內力學性質試驗	Syllabus	Thear are several laboratory methods now available to determine the parameters of various soil speciments in the laboratory. Including: 1. Introution for soil laboratory tests 2. Physis properties of soil laboratory tests 3. Soil laboratory and field tests for quality control of engineering purposes 4. Mechanical properties of soil laboratory tests

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