

朝陽科技大學 099學年度第1學期教學大綱
Soil Dynamics 土壤動力學

當期課號	7636	Course Number	7636
授課教師	張子修	Instructor	CHANG,TZYY SHIOU
中文課名	土壤動力學	Course Name	Soil Dynamics
開課單位	營建工程系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	透過課堂講授使同學獲得一般土壤動力理論，並藉習題寫作及專題討論，將理論運用於震動基礎設計級地震工程等之專業。主要內容為1.基本震動理論2.土壤動力性質及波傳導3.土壤動力實驗4.地震工程及震動基礎設計5.土壤動力研究課題。	Objectives	The purpose of this course is to teach students the fundamental principles and the applications of soil dynamics. Topics covered including: principles of vibration theory; soil dynamic characteristics and wave propagation in soil medium; soil dynamic laboratory; introduction to earthquake engineering and vibration foundation design.
教材	Vibration of Soils & Foundations、 By F. E. Richart & R. D. Woods.	Teaching Materials	Vibration of Soils & Foundations、 By F. E. Richart & R. D. Woods.
成績評量方式	作業成績 10% 平常考二次 20% 期中考 30% 期末考 30% 出席成績 10%	Grading	Homework 10% Quiz 20% Mid-team 30% Final 30% Attendance 10%
教師網頁	-		
教學內容	1.基本震動理論. 2.土壤之動力性質及波傳導. 3.土壤動力實驗. 4.地震工程及震動基礎設計. 5.土壤動力研究課題.	Syllabus	1.Basic Vibration Theory 2.Dynamic Properties of Soil and Wave Propagation 3.Soil Dynamic Laboratory 4.Vibration Foundation Design 5.Geotechnical Earthquake Engineering 6.Special Topics

尊重智慧財產權，請勿非法影印。