

朝陽科技大學 099學年度第1學期教學大綱  
Ground Improvement 地盤改良

當期課號	7178	Course Number	7178
授課教師	蔡佩勳	Instructor	TSAI, PEI HSUN
中文課名	地盤改良	Course Name	Ground Improvement
開課單位	營建工程系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	軟弱地層無法提供適當工程性質以滿足工程需求，因此必須藉地盤改良等方法，使其滿足工程之需要。本課程使學生瞭解地盤改良之各工法與及使用時機，並介紹其地盤改良之原理及設計方法。改良工法包括淺層與深層之夯實工法、排水壓密工法、灌漿工法、使用土工織物等。	Objectives	The objective of this course is to make students understanding about the treatment methods of site improvement and their application. The course concentrates on the topics of compaction, dewatering, surface stabilization with admixtures, and tensile reinforcement.
教材	1."Engineering Principles of Ground Modification"Manfred R. Hausmann 著, 2."Foundation Engineering Handbook"Hsai-Yang Fang 著	Teaching Materials	1."Engineering Principles of Ground Modification"by Manfred R. Hausmann 2.Foundation Engineering Handbook"by Hsai-Yang Fang
成績評量方式	期中考與期末考 (3×25%), 指定作業 (15%) 專題報告 (10%)	Grading	homework(15%),final report(10%),midterms(2*25%),final exam(25%)
教師網頁	-		
教學內容	本課程使學生瞭解地盤改良之各工法與及其主要影響因素，並介紹夯實改良工法, 排水改良工法, 混拌改良工法, 加勁式改良工法等地盤改良之工法。	Syllabus	This course in ground improvement would concentrate on the topics of compaction, dewatering, stabilization with admixtures, and tensile reinforcement.

尊重智慧財產權，請勿非法影印。