朝陽科技大學 097學年度第2學期教學大綱
Foundation Engineering 基礎工程

當期課號	1614	**Course Number**	1614
授課教師	徐松圻	**Instructor**	HSU,SUNG CHI
中文課名	基礎工程	**Course Name**	Foundation Engineering
開課單位	營建工程系(四日)二B	**Department**	
修習別	必修	**Required/Elective**	Required
學分數	3	**Credits**	3
課程目標	地質探勘及地質報告辨讀、基礎的種類、淺基礎的極限承載力、淺基礎的沉陷、筏基礎、深基礎的種類及施工方法、深基礎施工時與土壤之關連、擋土牆設計、開挖後側向土壓力和支撐、開挖後之支撐工法。	**Objectives**	This course will cover site investigation and geotechnical design summary report after boring. Types of foundations, bearing capacity of shallow foundation, settlement of shallow foundation, design of raft foundation, pile foundation, design of retaining.
教材	1.基礎工程原理 Author: B. M. Das (高立書局代理) 2.書名：Foundation Engineering 作者： Peck, R.B., W.E. Hanson, and T.H. Thornburn, John Wiley & Sons, Inc., 1974. 3.書名：大地工程學(二):基礎工程 作者：施國欽編著，文笙書局	**Teaching Materials**	1.Principles of Foundation Engineering Author: B. M. Das 2.Foundation Engineering Author:Peck, R.B., W.E. Hanson, and T.H. Thornburn John Wiley & Sons, Inc., 1974.
成績評量方式	作業及出席率 5 % 小考 35 % 期中考 30 % 期末考 30 %	**Grading**	Homework & Attendence 5% Quizs 35% Midterm 30% Final Exam 30%
教師網頁	_		
教學內容	地質探勘及地質報告辨讀、基礎的種類、淺基礎的極限承載力、淺基礎的沉陷、筏基礎、深基礎的種類及施工方法、深基礎施工時與土壤之關連、擋土牆設計、開挖後側向土壓力和支撐、開挖後之支撐工法。 由了解基礎的種類及基礎的選擇，學習分析的方法與設計的步驟，進而探討其施工之方式，以及擋土牆分析與開挖後土壓力和支撐，此爲大地工程必備之知識和工具。	**Syllabus**	This course is the most basic design couse for geotechnical engineering. This course will cover method of geological exploration, understanding of geological investigation report, types of foundations, bearing capacity of shallow foundation, settlement of shallow foundation, mat foundation, bearing capacity of pile foundation, settlement of pile foundation, lateral earth pressure, design of earth retaining structure, and design of excavation. Students will be able to design the basic geotechnical problems.

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