

朝陽科技大學 095學年度第1學期教學大綱  
Foundation Engineering 基礎工程

當期課號	3399	Course Number	3399
授課教師	楊麗文	Instructor	YANG,LIWEN
中文課名	基礎工程	Course Name	Foundation Engineering
開課單位	營建工程系(二進)四A	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	Principles of Foundation Engineering, 5th. Edition, B. M. Das, 2004 Brooks/Cole, THOMSON. (高立圖書公司代理).	Teaching Materials	Principles of Foundation Engineering, 5th. Edition, B. M. Das, 2004 Brooks/Cole, THOMSON.
成績評量方式	1. 期中考 30%. 2. 期末考 30%. 3. 出席率及學習態度10%. 4. 作業10%. 5. 小考10%*2=20%.	Grading	1. Midterm exam. 30%. 2. Final exam. 30%. 3. Attendance and attitude 10%. 4. Assignments 10%. 5. Tests 10%*2 = 20%.
教師網頁	-		
教學內容	1. 地質探勘及地質報告辨讀、 2. 淺基礎、 3. 筏式基礎、 4. 側向土壓力和擋土牆、 5. 鋼板樁牆與支撐開挖、 6. 深基礎。	Syllabus	1. Subsurface exploration、 2. Shallow foundations、 3. Mat foundations、 4. Lateral earth pressure and retaining walls、 5. Sheet pile walls and Braced cuts、 6. Deep foundations.

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