

朝陽科技大學 099學年度第1學期教學大綱
Constitutive Model for Geotechnical Materials 土壤組成模式

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| 當期課號 | 7163 | Course Number | 7163 |
| 授課教師 | 許世宗 | Instructor | HSU,SHIH TSUNG |
| 中文課名 | 土壤組成模式 | Course Name | Constitutive Model for Geotechnical Materials |
| 開課單位 | 營建工程系碩士班一A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 土壤組成模式係一般土壤力學之延伸，本課程之重點在讓學生對土壤應力-應變行為模式有更進一步瞭解與認識，對於學生在大地工程之數值分析研究上有更進一步之幫助。內容包括：應力與應變張量、降伏準則、應力與應變關係、塑性理論和土壤模式。 | Objectives | This course is the continuity of soil mechanics. The focus of this course is to promote student to understand the stress and strain behaviour of soil, and help student to study the numerical method of geotechnical engineering in futher. This course contains stress and strain tensor, yield criteria, relation of stress and strain, theory of plasticity, and soil model. |
| 教材 | 1.講義與投影片 2.作業 | Teaching Materials | 1.Handouts and Transparency film. 2.Homework |
| 成績評量方式 | 1.期中考(35%) 2.期末考(40%) 3.作業(15%) 4.期末報告(10%) | Grading | 1. Midterm (35%) 2. Final (40%) 3. Homework (15%) 4. Term Paper (10%) |
| 教師網頁 | http://www.cyut.edu.tw/~sthsu | | |
| 教學內容 | 單軸塑性行為 應力與應變張量 降伏準則 土壤組合律 | Syllabus | Uniaxial behavior in plasticity Stress tensor and strain tensor Yielding criterion Theory of plasticity Constitutive equations for soil materials |

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