# 朝陽科技大學 097學年度第2學期教學大綱
# Engineering Geology 工程地質

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| 當期課號 | 1600 | Course Number | 1600 |
| 授課教師 | 賴俊仁 | Instructor | LAI,JIUNN REN |
| 中文課名 | 工程地質 | Course Name | Engineering Geology |
| 開課單位 | 營建工程系(四日)二A | Department | |
| 修習別 | 必修 | Required/Elective | Required |
| 學分數 | 2 | Credits | 2 |
| 課程目標 | 認識礦物及岩石的種類和形成過程、地質年代、構造地質、台灣地質特性介紹、工程地質中的環境因素、工程地質在邊坡、水庫、壩工和隧道工程的應用及台灣案例介紹、工程地質圖的判讀繪製。 | Objectives | This course will cover types of minerals and rocks and their formations, geological times, structural geology, plate tectonics, geology in Taiwan, environmental factors for engineering geology, applications of engineering geology on slopes, dams and tunnels, and cases in Taiwan. |
| 教材 | 1. 課堂講義。<br>2. 洪如江，初等工程地質學大綱，地工技術發展基金會出版。<br>3. 施國欽，大地工程學(三):工程地質篇，文笙書局。 | Teaching Materials | Class Note |
| 成績評量方式 | 出席及作業 15%； 小考 35%；期中考 25%；期末考 25% | Grading | Homework & Attendence 15%; Quizs 35%; Midterm 25%; Final Exam 25% |
| 教師網頁 | http://www.cyut.edu.tw/~jrlai | | |
| 教學內容 | 地殼形成;礦物及岩石形成與種類(標本辨識);岩體中之弱面、地質構造(節理、褶皺)與地質年代;立體投影圖介紹、應用工程地質圖的判讀、應用;板塊運動、台灣地質;工程地質之計量化及其應用(岩體分類法介紹)邊坡破壞類型與監測工程地質在邊坡上之應用; | Syllabus | Formation of the earthe crust. Material factors of engineering geology including formation and types of minerals and rocks. Weak planes and geological structures in rock masses. Geological times.;Introduction and application of stereographic projection. Reading of geological maps. Plate techtonic. Geology of Taiwan.;Geological characteristics and formations in Taiwan. Enviornmental factors for geological engineering. Rock mass classifications. Types of slope failures and monitoring of slopes. Application of engineering geology on slopes. |

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