# 朝陽科技大學 098學年度第2學期教學大綱
# Tunnel Engineering 隧道工程

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| 當期課號 | 7630 | Course Number | 7630 |
| 授課教師 | 徐松圻 | Instructor | HSU,SUNG CHI |
| 中文課名 | 隧道工程 | Course Name | Tunnel Engineering |
| 開課單位 | 營建工程系碩士在職專班一A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 隧道之分析方法、土質及岩石隧道設計、工址調查及測試、隧道施工方法、安全計測及監控，以及台灣特有地質，台灣重要隧道工程所遭遇之困難探討。 | Objectives | This course will cover methods of analyses for tunnels, design and constructions of tunnels in soft ground and rock conditions, site investigation and in situ tests, methods of construction of tunnels, instrumentation and in situ monitoring, case studies of tunnels in Taiwan. |
| 教材 | 1. 隧道工程實務 陳志南編<br>2. 山岳隧道工程設計與實務手冊 張吉佐、劉弘祥編 科技圖書公司出版<br>Tunneling：Design, Stability and Construction<br>by B. N. Whittaker and R. C. Frith, The Institution of Mining and Metallurgy（北門書局代理） | Teaching Materials | Tunneling：Design, Stability and Construction<br>by B. N. Whittaker and R. C. Frith, The Institution of Mining and Metallurgy |
| 成績評量方式 | 作業及平時考核 10%；期中與期末報告30%；<br>期中考 30%；期末考 30% | Grading | Homework & Attendence 10%<br>Final Report 30%<br>Midterm 30%<br>Final Exam 30% |
| 教師網頁 | _ | | |
| 教學內容 | 隧道之分析方法、土質及岩石隧道設計、工址調查及測試、隧道施工方法、安全計測及監控，以及台灣特有地質，台灣重要隧道工程所遭遇之困難探討。 | Syllabus | This course will cover the design and analyses of tunnels in soils and rocks and related subjects of tunneling, including site investigation, in situ tests, construction methods, monitoring, failure mechanisms, failure cases, design at portals, and difficulties for tunneling in Taiwan. |

尊重智慧財產權，請勿非法影印。