朝陽科技大學 096學年度第2學期教學大綱
Tunnel Engineering 隧道工程

當期課號	7639	Course Number	7639
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 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 Tunneling：Design, Stability and Construction 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 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%； 期中考 30%；期末考 30%	Grading	Homework & Attendence 10% Final Report 30% Midterm 30% 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。