朝陽科技大學 098學年度第1學期教學大綱
Introduction to Rock Mechanics 岩石力學概論

當期課號	1690	Course Number	1690
授課教師	黃貞凱	Instructor	Huang,Jen Kai
中文課名	岩石力學概論	Course Name	Introduction to Rock Mechanics
開課單位	營建工程系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	原狀岩石及岩石種類、基本岩石力學室內及野外試驗、岩石節理、岩體和岩體分類、岩石內之應力和分佈、邊坡穩定分析、相關工程地質實習等。	Objectives	Types of rocks, properties of intact rock, discontinuities, and rock mass will be covered in the course. Laboratories for engineering geology and rock mechanics, application of stereonet on weak planes and slope stability, and stresses and distribution in rock will be also covered.
教材	1.大地工程學(四)--岩石力學，施國欽編著，文笙書局 2.Introduction to Rock Mechanics (1989) Author: R. E. Goodman, John Wiley & Sons 書名： Rock Slope Engineering 作者： Hoek, E. and J.W. Bray, Institution of Mining and Metallurgy, London, 1981.	Teaching Materials	1.Text book 2.Introduction to Rock Mechanics (1989) Author: R. E. Goodman, John Wiley & Sons
成績評量方式	作業 10% 期末報告 10% 兩次小考 30% 期中考 25% 期末考 25%	Grading	Homework 10% Term Report 10% Two quizes 30 % Mid term exam 25% Final Exam 25%
教師網頁			
教學內容	了解原狀岩石與岩體之不同、岩石的工程性質以及邊坡和各種結構物在岩體內穩定分析，並將所學應用於案例分析和日後的工程設計。 課程將教授原狀岩石及岩石種類、岩石節理、岩體和岩體分類、岩石內之應力和分佈、邊坡穩定分析、基礎、地下開挖、數值分析、相關工程地質實習等。	Syllabus	This course will teach to understand intact rock and rock mass, engineering properties of rock and joints, rock mass classification, stress and distribution inside the rock, rock slope stability analysis, rock foundation, underground construction in rock, and related cases in rock masses.

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