

朝陽科技大學 094學年度第2學期教學大綱  
AI Application in Engineering Analysis 人工智慧在工程分析上之應用

當期課號	7090	Course Number	7090
授課教師	王裕仁	Instructor	WANG, YU REN
中文課名	人工智慧在工程分析上之應用	Course Name	AI Application in Engineering Analysis
開課單位	營建工程系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	從工程之觀點，介紹人工智慧基本原理及其應用實例，使學習者能實際地學習如何利用人工智慧技術，解決工程分析上的問題。課程內容包括：基因演算法、類神經網路、模糊理論及應用範例介紹。	Objectives	Introduction course of the application of artificial intelligence in engineering analysis and design. Covers genetic algorithms, neural network and fuzzy set theory and their applications in construction engineering and management.
教材	Tsoukalas, L. H., and Uhrig, R. E. (1996). fuzzy and neural approaches in engineering, Wiley, New York, N. Y.	Teaching Materials	
成績評量方式	考試40% 作業40% 報告20%	Grading	Quizzes 20 points Final Exam. 20 points HW Assignments 40 points Term Project 20 points
教師網頁	-		
教學內容	本課程主要教授基因演算法、模糊理論、類神經網路等人工智慧分析方法。	Syllabus	The purposes of this course are (1) to provide students with the basic concept of artificial intelligent methodology; and (2) to discuss artificial intelligent methods that have been devised specially for the analysis of construction operation.

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