

朝陽科技大學 093學年度第2學期教學大綱
Fuzzy Theory 模糊理論

當期課號	7114	Course Number	7114
授課教師	鄭啓斌	Instructor	CHENG,CHI BIN
中文課名	模糊理論	Course Name	Fuzzy Theory
開課單位	工業工程與管理系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程旨在教授學生柔性運算之基礎理論，包括模糊邏輯、類神經網路以及演化演算法；並及於柔性運算在各領域之應用。	Objectives	This course aims to provide students with basic theory of soft computing, including fuzzy logic, neural networks, and evolutionary algorithms. The applications of soft computing to many different fields are introduced as well.
教材	Neuro-Fuzzy and Soft Computing, Jang, Sun, and Mizutani, 1997, Prentice-Hall	Teaching Materials	
成績評量方式	期中考35%,期末考35%,作業+期末報告30%	Grading	Midterm 35%, Final 35%, Homework+Project 30%
教師網頁	www.iem.cyut.edu.tw		
教學內容	柔性運算之基礎理論，包括模糊邏輯、類神經網路以及演化演算法；並及於柔性運算在各領域之應用。課程介紹模糊集合論、類神經模糊系統、遺傳演算法、蟻拓演算法以及增強式學習。柔性運算在自動控制、決策分析、最佳化與系統建模方面之應用。	Syllabus	This course aims to provide students with basic theory of soft computing, including fuzzy logic, neural networks, and evolutionary algorithms. The applications of soft computing to many different fields are introduced as well. Lectures include introduction to fuzzy set theory, fuzzy inference systems, neuro-fuzzy systems, genetic algorithm, ant systems, and reinforcement learning methods. The applications of soft computing to automatic control, decision making, optimization, and system modeling are discussed.

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