

朝陽科技大學 094學年度第1學期教學大綱  
Fuzzy Logic Theory & Applications 模糊邏輯理論與應用

當期課號	7419	Course Number	7419
授課教師	林正堅	Instructor	LIN,CHENG JIAN
中文課名	模糊邏輯理論與應用	Course Name	Fuzzy Logic Theory & Applications
開課單位	資訊科技研究所博士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	Introduction Basic Concepts of Fuzzy Logic Fuzzy Sets Fuzzy Relations, Fuzzy Graphs, and Fuzzy Arithmetic Fuzzy if-then Rules Fuzzy implications and Approximate Reasoning Fuzzy Logic in Information and Engineering	Objectives	Introduction □ Basic Concepts of Fuzzy Logic □ Fuzzy Sets □ Fuzzy Relations, Fuzzy Graphs, and Fuzzy Arithmetic □ Fuzzy if-then Rules □ Fuzzy implications and Approximate Reasoning □ Fuzzy Logic in Information and Engineering
教材	Text Book Fuzzy Logic: Intelligence, Control, and Information John Yen and Reza Langari Prentice Hall (高立圖書代理) Ref. Book Neural Fuzzy Systems: A Neuro-Fuzzy Synergism to Intelligent Systems C.-T. Lin and C. S. G. Lee Prentice Hall (高立圖書代理)	Teaching Materials	
成績評量方式	Midterm: 40% Homework: 30% Project (simulation, presentation, and report) : 30 %	Grading	Midterm: 40% Homework: 20% Project (simulation, presentation, and report) : 40 %
教師網頁	-		
教學內容	Introduction Basic Concepts of Fuzzy Logic Fuzzy Sets Fuzzy Relations, Fuzzy Graphs, and Fuzzy Arithmetic Fuzzy If-Then Rules Fuzzy Implications and Approximate Reasoning Fuzzy Logic and Probability Fuzzy Logic in Identification and Control Engineering Hierarchical Intelligent Control Fuzzy Logic in Database and Information Systems Neuro-Fuzzy Systems Genetic Algorithms and Fuzzy Logic	Syllabus	Introduction Basic Concepts of Fuzzy Logic Fuzzy Sets Fuzzy Relations, Fuzzy Graphs, and Fuzzy Arithmetic Fuzzy If-Then Rules Fuzzy Implications and Approximate Reasoning Fuzzy Logic and Probability Fuzzy Logic in Identification and Control Engineering Hierarchical Intelligent Control Fuzzy Logic in Database and Information Systems Neuro-Fuzzy Systems Genetic Algorithms and Fuzzy Logic

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