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②國玄東華大學

課 網 Course Outline 資訊工程學系人工智慧與創新應用碩士班

中文課程名稱 Course Name in Chinese	柔性計算系統實務					
英文課程名稱 Course Name in English	Realization of Soft Computing Systems					
科目代碼 Course Code	AIIA50250	班 別 Degree	碩士班 Master's			
修別 Type	選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite						

課程目標 Course Objectives

This course aims to build up the theoretical foundation of soft computing systems for PhD students of the Department of Computer Science & Information Engineering who are interested in developing their career in the field of soft computing systems and to introduce the state-of-art technologies related to soft computing systems in the literature in order to enhance students' innovative and practical skills in the design of soft computing systems.

lit	literature in order to enhance students' innovative and practical skills in the design						
of soft computing systems.							
系教育目標							
	Dept.'s Education Objectives						
1	探究學科知識,善用專業技能						
	Explore academic knowledge, utilize professional skills.						
2	訓練評析思考,創新解決問題						
	Exercise analytical thinking, enhance creative problem solving skills.						
3	學習團隊分工,強化溝通表達						
Participate in teamwork, strengthen communication skills.							
		課程目標與系專業能					
	2. 声 * A - L	力相關性					
		Correlation between Course					
	Basic Learning Outcomes	Objectives and					
	basic hearning careomics	Dept.'s Education					
		Objectives					
	統合資工知識技術之能力						
A	Ability to integrate knowledge and technologies of computer	•					
	science and information engineering.						
	設計技術理論驗證實驗之能力						
В	Ability to design and conduct science experiments and to						
	validate hypotheses.						

С	資訊軟硬體設計開發之能力					
	Ability to design and develop computer software and hardware.	•				
D	團隊專案開發之能力	0				
	Ability to design and develop team projects.					
	批判性思考與創新研發之能力					
E	Ability of analytical thinking, creative research planning, and					
	innovative development.					
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
	課程大綱					
	Course Outline					
	-Introduction to soft computing					
1	assification					
1	ustering					
	gression					
	sociation rule learning					
	-Optimization					
-Generative artificial intelligence						
-Soft Computing in engineering design						
-Soft computing realization for intelligent control systems						
資源需求評估(師資專長之聘任、儀器設備的配合・・・等)						
	Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)					
Non						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
This course is lectured by oral presentations with some online tutorial videos as						
supplementary teaching materials. The evaluation will be done via the midterm exam and						
a final project assignment.						
其他						
Miscellaneous						