②國玄東華大學

課 綱 Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese	最佳化與決策專題					
英文課程名稱 Course Name in English	Topics on optimization and decision making					
科目代碼 Course Code	CSIEM0050	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 the capability in multi-criteria/ multi-objective decision making and soft computing.						
The syllabus covers several key areas, including optimization, multi-criteria/ multi- objective decision making, optimization in classification, etc. Besides lectures, paper reading and discussions are required. One of the goals is to help the students get prepared for their thesis development.						
Dept.'s Education Objectives						
1 探究學科知識,善用專業技能 Explore academic knowledge, utilize professional skills.						
2 2 i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. 						
系專業能力 Basic Learning Outcomes				力相關性 Correlat between Objectiv Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
	時之能力 grate knowledge and te formation engineering.	echnologies o	f computer		0	
B 設計技術理論驗言 B Ability to desi validate hypoth	gn and conduct science	e experiments	and to		•	

C	資訊軟硬體設計開發之能力 Ability to design and develop computer software and hardware.	0				
D	團隊專案開發之能力 Ability to design and develop team projects.	0				
E	批判性思考與創新研發之能力 Ability of analytical thinking, creative research planning, and innovative development.	•				
圖,	圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated					
	課程大綱					
	标准入例 Course Outline					
2. 札 3. 多	 非線性規畫 (nonlinear programming) 模糊規畫 (fuzzy programming) 多目標決策 (multiple criteria/ multiple objective decision making) 					
	 4. 賽局理論(game theory) 5. 最佳化在分類方法的應用(optimization in classification) 					
	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.)					
	畑田西お和林殿大十ヶ伊送					
	課程要求和教學方式之建議					
	Course Requirements and Suggested Teaching Methods					
Cla	Class lectures, assignments, lab sessions and term project					
其他						
	Miscellaneous					