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②国玄東華大學

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

ア文詠程名稱 Course Name in Chinese		圖型識別				
Cou	て課程名稱 rse Name in lish	Pattern Recognition				
科目代碼 Course Code		AIIA50260	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
	多課程 requisite					
		Cours	課程目標 e Objectives			
ena	ble them to use o	op a theoretical and p computers to classify ounds after completing	and recognize the course.	ze various tyj	_	
		·	《教育目標 ucation Objec	ctives		
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.					
系專業能力 Basic Learning Outcomes				力相關性 Correlat between (Objective	Course es and Education	
A	統合資工知識技術之能力 Ability to integrate knowledge and technologies of computer science and information engineering.				•	
В	設計技術理論驗證實驗之能力 Ability to design and conduct science experiments and to validate hypotheses.				\circ	
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 Ability to desig	カ n and develop team pr	ojects.			•

批判性思考與創新研發之能力 E Ability of analytical thinking, creative research planning, and						
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						
1. Introduction						
2. Bayes Classifiers						
3. Linear Classifiers						
4. Nonlinear Classifiers						
5. Feature Selection and Generation						
6. Template Matching						
7. Context-Dependent Classification						
8. Clustering						
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.)						
Programming development tools such as VS code						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
Oral lectures with programming assignments						
其他						
Miscellaneous						