②国玄東華大學

課 網 Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese	影像處理				
英文課程名稱 Course Name in English	Image Processing				
科目代碼 Course Code	CSIEM0180	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					
	Cour	課程目標 se Objectives			
needed in an imaging system. The content of the the spatial/frequency compression, images egmentation, and 1 探究學科知識,Explore academ 2 訓練評析思考,	e course, students will e course contains digi domain, image restora e description. Deep lea Dept.'s Ed 善用專業技能 nic knowledge, utilize	tal image fundation, color imarning is also m系教育目標ducation Object	nmentals, in age process nentioned in tives kills.	mage enhancements	
3 學習團隊分工,					
	系專業能力 Basic Learning Ou			力相關性 Correlat between (Objective	Course es and Education
	術之能力 tegrate knowledge and t aformation engineering.	_	computer		•

	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.				
1 (1	資訊軟硬體設計開發之能力	\bigcirc			
Ĺ	Ability to design and develop computer software and hardware.	<u> </u>			
D	團隊專案開發之能力				
	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	0			
	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					
課程內容包含基本知識背景、影像預處理技術、及影像分析。					
前三章的基礎,對於後續章節的瞭解有很重要的關係。					
第四章討論影像增強技術,涵蓋雜訊消除、對比增強、銳利和色彩處理。					
第五章詳細地討論影像復原的技術資料壓縮在第六章提及。					
後三章探討影像分割、辨識與解析技術。					
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.)					
Existing suitable full-time teachers					
課程要求和教學方式之建議					
Course Requirements and Suggested Teaching Methods					
Class lectures, assignments, lab sessions and term project					
其他					
Miscellaneous					