

國立台灣科技大學新開課程計畫書

1.	開課所系 Department	資訊工程系			103學年度第一學期 Year: 103 Semester: Fall	
					其他： Other time:	
2.	課程代號 Course Code	CS5122	選必修 Required/ Elective	選修	開課年級 Grade	大四、研究所
	課程名稱 Course Title	中文(Chinese) 高等計算攝影學 (中文15個字以內) 英文(English) Advanced Computational Photography (英文75個字母以內)				
3.	學分數 Credits	3	上課時數 Total Hours	3	實習時數 Intern Hours	
4.	通識課程領域別 Type of General Education Course (若屬通識課程請勾選) (Please select this item of G/E course.)	<input type="checkbox"/> 人文領域 Humanity		<input type="checkbox"/> 社會領域 Sociology		<input type="checkbox"/> 自然領域 Nature
5.	先修課程或特殊 規定 Pre-Requisite	Computational Photography				
6.	課程宗旨 Purpose of The Course	Computational Photography is an emerging new field created by the convergence of computer graphics, computer vision and photography. Its role is to overcome the limitations of the traditional camera by using computational techniques to produce a richer, more vivid, perhaps more perceptually meaningful representation of our visual world. The aim of this course is to learn the advanced knowledge of computational photography. The course will emphasize hands-on aspects and will culminate into a final project. The goal is to provide students with sufficient backgrounds to implement new solutions to photography challenges and opportunities.				
7.	課程中文大綱 Outline of Lectures (In Chinese)	(1) 感知和技術方面的圖片知識 (2) 圖像和視頻處理 (3) 成像和攝影的計算運作模式 (4) 應用於數位媒體的計算。 (5) 圖像分析與合成 (6) 網路上的影像和攝影應用技術 (本案經教務會議通過後，將轉錄此段課程概述於本校概況及各系課程英文大綱上，敬請詳實填列)				

8.	課程英文大綱 Outline of Lectures (In English)	(1) Perceptual and Technical Aspects of Pictures (2) Image and Video Processing (3) Computational Processes associated with Imaging and Photography (4) Computation as applied to Digital Media (5) Image Analysis and Synthesis (6) Images and Photography on the Web/Internet (本案經教務會議通過後，將轉錄此段課程概述於本校概況及各系課程英文大綱上，敬請詳實填列)
9.	校內有否開設類似課程 Similar Course In Campus	<input checked="" type="checkbox"/> 否 No <input type="checkbox"/> 有，其課程名稱為： Yes(Please specify course title):
10.	任課教師 Lecturer	花凱龍(Hua, Kai-Lung)

所長：
系(科)主任：
學程主任：_____ 院長：_____ 日期：_____

系務會議決議：102.11.29 資工系102學年度第2次系務會議通過 教務會議決議：_____