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②国玄東華大學

課 網 Course Outline 光電工程學系碩士班

中文課程名稱 Course Name in Chinese		光電子學					
英文課程名稱 Course Name in English		Optoelectronics and Photonics					
科目代碼 Course Code		0E52700	班 別 Degree				
修別 Type		選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3.0	
先修課程 Prerequisite		普通物理					
課程目標 Course Objectives							
增進學生對於光電元件的背景以及其原理與應用等知識							
系教育目標							
Dept.'s Education Objectives							
1	傳授科學知識,培訓實用技能。 Acquire science knowledge, develop practical skill						
2	培養工程倫理,啟發創新思維。 Sublimate engineering ethics, encourage creative thinking						
3	培養團隊精神,啟發獨創能力。 Develop the spirit of teamwork, and inspire the creative ability.						
4 提昇專業素養,拓展國際視野。 Develop professional ability, broaden global perspectives							
課程目標與系專業 力相關性 《新專業能力 Basic Learning Outcomes Basic Learning Outcomes Basic Learning Outcomes Basic Learning Outcomes Objectives					ion Course es and Education		
A	具有獨立研究能力 Equipped with ab	ilities of independen	t research.			0	
В	1 , , , , , , , , , , , , , , , , , , ,	業知識及應用能力。 wledge and application eering	n ability of	Opto-		•	
С		驗、報告撰寫與數據解釋 ign and execute exper		reports, and		0	
D	使用儀器進行物件 Analysis and tes	的分析及測試。 it of devices by instr	uments			0	

Е	具備適當的英文能力,應用於學習與交流。					
	English language ability to study and interac	•				
F	具有良好的溝通與團隊合作的能力。					
	Ability to communicate and teamwork					
G	具有創新思維及終身學習的能力。					
	Creative thinking and life-long learning ability					
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱						
Course Outline						
Topic 1 Wave Nature of Light						
Topic 2 Dielectric Waveguides and Optical Fibers						
Topic 3 Semiconductor Science and Light Emitting Diode						
Topic 4 Stimulated Emission Devices - Lasers						
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.)						
無特殊要						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
以指定教材按預訂進度進行教學。						
教學以講授及討論為主,以相關文獻資料加以補充。						
	其他					
	Miscellaneous					