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②国玄東華大學

課 網 Course Outline 光電工程學系學士班

中文課程名稱 Course Name in Chinese		有機半導體及能源材料與元件					
英文課程名稱 Course Name in English		Organic Electroluminescent Materials and Devices					
科目代碼 Course Code		OE10140	班 別 Degree	В	學士班 Bachelor's		
修別 Type		學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
課程目標							
Course Objectives 讓學生修習此一課程後,能對半導體製成科技能有深入了解,以利研究工作的進行。							
一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个							
1	傳授科學知識,培訓實用技能 Acquire science knowledge, develop practical skills						
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,促進協調合作 Promote teamwork spirit, inspire coordination and cooperation						
系專業能力 Basic Learning Outcomes				力相關性 Correlati between C Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A	具有光電相關的物理、化學、材料及數學的知識。 Physics, chemistry, material, and math knowledge related to opto-electronic engineering			•			
В	具有光電工程的專業知識及應用能力。 Professional knowledge and application ability of opto- electronic engineering			•			
С		驗、報告撰寫與數據解釋 ign and execute exper		reports, and		•	
D	使用儀器進行物件 Analysis and tes	的分析及測試。 st of devices by instr	uments		(0	

Е	具備適當的英文能力,應用於學習與交流。	\cap				
	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。	\bigcirc				
	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 Introduction to Organic Light-Emitting Devices						
Topic 2 Carrier Injection/Transport Materials						
Topic 3 Fluorescent/Phosphorescent Polymers						
Topic 4 Chemical Degradation and Physical Aging Issue						
Topic 5 Design of Organic Light-Emitting Devices						
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.)						
無特殊要求						
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。						
期中考33.3%,期末考33.3%,口頭報告33.3						
其他						
	Miscellaneous					