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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		綠能科技導論					
英文課程名稱 Course Name in English		Green Energy Technology					
科目代碼 Course Code		OE10090	班 別 Degree	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							
讓學生在修習此一課程後,能對目前我內外能源科技概況、種類與技術有深入的了解,以利研究工作的研發與進行同時做為未來進入能源科技發展平台之前哨站							
系教育目標 Dept.'s Education Objectives							
1	建设科學知識,拉訓實田 技能						
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 Correlat between Objectiv 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	具有設計與執行實驗、報告撰寫與數據解釋之能力。 C Abilities to design and execute experiment, write reports, and explain data					•	
D	使用儀器進行物件 Analysis and tes	的分析及測試。 t of devices by instru	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	0			
F	有良好的溝通與團隊合作的能力。 ility 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: Solar Energy and Solar Cell Topic 2: Nanomaterials for Solar Energy Topic 3: Fuel Cell Topic 4: Introduction of Hydrogen Energy Topic 5: Biomass Energy and Wind Energy Topic 6: Hydraulic Energy and Earth Interior Energy					
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.)					
資料整理所需之電腦、影印機;討論所需之投影機、幻燈機等教學設備;能源科技中心實務參訪					
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、討論為主,必要時以相關文獻資料或實務參訪加以補充。					
其他					
	Miscellaneous				