②國玄東華大學

課 網 Course Outline 光電工程學系學士班

中文課程名稱 Course Name in Chinese		電子學(一)					
英文課程名稱 Course Name in English		Electronics(I)					
科目代碼 Course Code		OE10030	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							
(1) 學習半導體積體電路之物理特性 (2) 學習電子電路之基本理論							
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 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	具有設計與執行實驗、報告撰寫與數據解釋之能力。 Abilities to design and execute experiment, write reports, and explain data						
D	D 使用儀器進行物件的分析及測試。 Analysis and test of devices by instruments						

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					
圖力	圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated					
	課程大綱					
	Course Outline					
1. T	1. The pn Junction Diode					
2. Bipolar Junction Transistors (BJTs)						
3. F	3. Field-Effect Transistors (FETs)					
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					
課生	課堂講演					
	其他					
	Miscellaneous					