Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

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		數位設計					
英文課程名稱 Course Name in English		Digital Design					
科目代碼 Course Code		OE10390	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	
1	を課程 requisite				<u>'</u>		
課程目標							
Course Objectives							
培養工程領域的基礎能力:程式邏輯、電腦輔助設計、自動控制實作與機電整合概論。 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	拉美圃院蚌油,但准协调人作						
系專業能力 Basic Learning Outcomes					力相關性 Correlati between (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。 A 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	ports, and		
D	D 使用儀器進行物件的分析及測試。 Analysis and test of devices by instruments				0		

Е	具備適當的英文能力,應用於學習與交流。	\bigcirc				
	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	O				
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						
1. Digital design tools						
2. Open source hardware						
3. Fundamental programming						
4. Sensors and controllers						
5. Case study						
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.)						
電腦教室						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
作業 (30%), 期中考試 (30%), 期末考試 (40%)						
其他						
Miscellaneous						
無						