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②国玄東華大學

課 網 Course Outline

材料科學與工程學系學士班

中文課程名稱 Course Name in Chinese		半導體元件					
英文課程名稱 Course Name in English		Semiconductor Devices					
科目代碼 Course Code		MS_40800	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		半導體材料導論					
課程目標 Course Objectives							
讓學生瞭解半導體材料基本性質與元件基本理論。 This course provides students with the basic properties of semiconductor materials and the basic theory of components.							
系教育目標 Dept.'s Education Objectives							
1	1 奠定理論基礎 Set the theoretical foundation						
2	訓練實用技能 Train the practical skill						
3	培養優質人格 Form the positive cher						
4	啟發創新思 Promote creative thinking						
5	5 開展國際視野 Develop global vision						
	系專業能力 Basic Learning Outcomes				力相關性 Correlat 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	Acquire required	的物理、化學及數學的知 basic physical, chem terials science and e	ical, and ma	thematic		0	

	具備材料科學的專業知識,並能應用於解決工程上之問題。				
В	Acquire required professional knowledge for materials science				
	and engineering, applicable in solving engineering problems.				
	具備邏輯思考、實驗執行、報告撰寫與數據解釋之能力。				
C	Equipped with capabilities of logic thinking, execution of				
	experiment, and data interpretation.				
	具備專業道德及責任感,與良好的溝通及團隊合作的能力。				
D	Acquire professional morality and responsibility, and				
"	capability of quality communication and team cooperation				
Е	具備適當的英文能力,應用於學習與交流。	\bigcirc			
	Acquire English capability used for learning and interaction				
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated					
課程大綱					
Course Outline					
本課程介紹各種固態電子元件,內容涵蓋:半導體基本特性、金屬與半導體接面、元件理論與製程					
· 简介。					
This course introduces various solid state electronic components, including: basic					
semiconductor properties, metal and semiconductor interfaces, component theory and					
process introduction.					
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.)					
專任師資乙名					
专任印具					
区が機 Full-time faculty member, a projector					
課程要求和教學方式之建議 Course Paguiroments and Suggested Togghing Mathods					
Course Requirements and Suggested Teaching Methods					
課堂講授、問題討論、作業練習與考試					
Classroom lecture is the main focus, supplemented by problem solving					
其他					
Miscellaneous					