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②国玄東華大學

教學計劃表 Syllabus

		名稱(中文) me in Chinese	薄膜材料與光電元件技術 Academic				ester	113/1		
	課程名稱(英文) Thin film materials and optoelectronics device technology									
		目代碼 rse Code	9E_52910			光電工程學系				
		修別 Type	選修 Elective	0/3.0						
		課教師 tructor	/林伯彦							
	先修課程 Prerequisite									
			課	程描述 Cours	e Descrip	tion				
授課方式以播放投影片講授為主,課後作業與相關專業期刊之報告補充為輔,使同學能夠在這一學期課程對於對薄膜材料與光電元件技術有深入的了解,同時也開放每週一下午2:00-4:00做為office時間,藉此課程安排來了解學生的學習效果, 做為未來從事微電子技術與半導體研究之根基。										
課程目標 Course Objectives										
讓學生在修習此一課程後,能對薄膜材料、真空技術、電漿技術與光電元件技術有深入的了解,做為未來從事微電子技術與半導體研究之根基。										
系專業能力 Basic Learning Outcomes							課	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
								relation between urse Objectives and Dept.'s Education		
A -	具有獨	立研究能力Equippe	Basic Learn	ning Outcomes	t research.			relation between urse Objectives and Dept.'s Education		
В (具有光 Opto-e	電工程的專業知識及 electronic enginee	Basic Learn d with abilities 及應用能力。Profe cring	ning Outcomes s of independentsessional knowle	dge and app	olication ability of		relation between urse Objectives and Dept.'s Education		
В (具有光 Opto-e 具有設	電工程的專業知識及	Basic Learn d with abilities 及應用能力。Profe rring 告撰寫與數據解釋	ning Outcomes s of independen essional knowle と能力。Abiliti	dge and app	olication ability of		relation between urse Objectives and Dept.'s Education		
B 3	具有光 Opto-e 具有設 experi	電工程的專業知識及 lectronic enginee 計與執行實驗、報告	Basic Learn d with abilities 及應用能力。Profe bring b撰寫與數據解釋 tts, and explain	ning Outcomes s of independen essional knowle と能力。Abiliti data	dge and apper	plication ability of		relation between urse Objectives and Dept.'s Education		
B (1)	具有光 Opto-e 具有設 experi 使用儀	電工程的專業知識及 lectronic enginee 計與執行實驗、報行 ment, write repor 器進行物件的分析及	Basic Learn d with abilities 及應用能力。Profe ering 告撰寫與數據解釋 ts, and explain 及測試。Analysis	ning Outcomes s of independen essional knowle と能力。Abiliti data and test of de	dge and appear to design vices by in	plication ability of	Co	relation between urse Objectives and Dept.'s Education		
B	具有化-e 具有的-e 具有設experi 使用 備 通	電工程的專業知識及 lectronic enginee 計與執行實驗、報行 ment, write repor 器進行物件的分析及	Basic Learn d with abilities 及應用能力。Profe ering b撰寫與數據解釋 ts, and explain 及測試。Analysis 用於學習與交流。E	ning Outcomes s of independen essional knowle と能力。Abiliti data and test of de English languag	dge and appear to design vices by ine ability to	olication ability of gn and execute nstruments to study and interact	Co	relation between urse Objectives and Dept.'s Education		
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B (7) C (8) D (1) E (8) F (8)	具有opto-e 具在peri 儀 通 良 具 具 月	電工程的專業知識及 lectronic enginee 計與執行實驗、報告 ment, write repor 器進行物件的分析及 當的英文能力,應用 好的溝通與團隊合作 新思維及終身學習自	Basic Learn d with abilities 及應用能力。Profe ering b撰寫與數據解釋 ts, and explain 及測試。Analysis 用於學習與交流。E 作的能力。Ability 的能力。Creative	and test of de Conglish language to communicat thinking and 1	dge and appear to design vices by in the ability of the and teamwife-long learning and teams.	olication ability of gn and execute nstruments to study and interact	Co	relation between urse Objectives and Dept.'s Education Objectives		
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Organic light emitting diode (OLED)

5	Organic light emitting diode (OLED)						
6	Organic light emitting diode (OLED)						
7	Quantum dot light emitting diode (QDLED)						
8	Quantum dot light emitting diode (QDLED)						
9	期中考試週 Midterm Exam						
10	Light emitting diode (LED)						
11	Light emitting diode (LED)						
12	Micro light emitting diode (uLLED)						
13	Micro light emitting diode (uLLED)						
14	Exam						
15	Thin film transistor (TFT)						
16	Thin film transistor (TFT)						
17	Final Report						
18	期末考試週 Final Exam						
	教學策略 Teaching Strategies						
✓ 課堂講	授 Lecture						
其他Mis	scellaneous:						
	教 學 創 新 自 評 Teaching Self-Evaluation						
創新教學(Innovative Teaching)						
問題導向學習(PBL) ■ 團體合作學習(TBL) ■ 解決導向學習(SBL)							
翻轉教室 Flipped Classroom 磨課師 Moocs							
社會責任(Social Responsibility)							
■ 在地實踐Community Practice ■ 産學合作 Industy-Academia Cooperation							
一 跨域合作(Transdisciplinary Projects)							
一跨界教學Transdisciplinary Teaching 跨院系教學Inter-collegiate Teaching							
■ 業師合授 Courses Co-taught with Industry Practitioners							
其它 other:							

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例	多元評量方式 Assessments							
Items	Percentage	測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	30%		~						
期中考成績 Midterm Exam	20%	~							
期末考成績 Final Exam	20%			~					
作業成績 Homework and/or Assignments	30%		~						
其他 Miscellaneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

參考資料:

- 1. 自編講義
- 2. Introduction to Flat Panel Displays, Second Edition (Jiun-Haw Lee, I-Chun Cheng, Hong Hua, Shin-Tson Wu)

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)
Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

其他補充說明(Supplemental instructions)

課程進度依實際狀況做滾動式修正