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② 图 z 東華大學 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese			光電子學			學年/學期 Academic Year/Seme	ester	112/2	
Cour		名稱(英文) ne in English	Optoelectronics and Photonics						
科目代碼 Course Code			OE52700	系級 Department 碩士 & Year		開課單位 Course-Offering Department	光	光電工程學系	
		修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)		3.0	0/3.0		
授課教師 Instructor /李政誼									
	先修課程 Prerequisite								
	課程描述 Course Description								
Provide an overview of optoelectronic devices and introduce their physical mechanism.									
			課	程目標 Cour	se Object	ives			
增進學生對於光電元件的背景以及其原理與應用等知識									
系專業能力 Basic Learning Outcomes						Cor	程目標與系專業能 力相關性 relation between urse Objectives and Dept.'s Education Objectives		
A 具有獨立研究能力Equipped with abilities of independent research.								0	
В	Opto-electronic engineering							•	
C 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							\circ		
D 使用儀器進行物件的分析及測試。Analysis and test of devices by instruments							0		
Е	E 具備適當的英文能力,應用於學習與交流。English language ability to study and interact							•	
F	具有良	好的溝通與團隊合作	作的能力。Ability	to communicat	e and team	work		0	
G	G 具有創新思維及終身學習的能力。Creative thinking and life-long learning ability								
圖示詞	說明 I l	lustration :	高度相關 Hi	ghly correla	ated 〇中	度相關 Moderately	corre	lated	
授課進度表 Teaching Schedule & Content									
週次Week			內容	,	備註Remarks				
1		Chapter 1 Wave							
2		Chapter 1 Wave							
3 Chapter 1 Wave			Nature of Ligh						
4	1	Chapter 1 Wave	Nature of Light						
5		Chapter 1 Wave	Nature of Light	 t					

6	Chapter 1 Wave Nature of Light							
7	Chapter 2 Dielectric Waveguides and Optical Fibers							
8		4/8調整上課(放假)(教師自行擇日補課)						
9	期中考試週 Midterm Exam							
10	Chapter 2 Dielectric Waveguides and Optical Fibers							
11	Chapter 2 Dielectric Waveguides and Optical Fibers							
12	Chapter 2 Dielectric Waveguides and Optical Fibers							
13	Chapter 2 Dielectric Waveguides and Optical Fibers							
14	Chapter 4 Stimulated Emission Devices							
15	Chapter 4 Stimulated Emission Devices							
16	Chapter 4 Stimulated Emission Devices							
17		端午節(放假)						
18	期末考試週 Final Exam							
	教 學 策 略 Teaching Strategies							
✓ 課堂講授 Lecture								
其他Miscellaneous:								
	教學創新自評Teaching Self-Evaluation							
創新教學(Innovative Teaching)								
問題導口	句學習(PBL) 團體合作學習(TBL) 解決導向學	型習(SBL)						
翻轉教生	Manual							
社會責任(翻轉教室 Flipped Classroom							
在地實際								
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(含出缺席) General Performance (Attendance Record)	10%								
期中考成績 Midterm Exam	25%								
期末考成績 Final Exam	25%								
作業成績 Homework and/or Assignments	20%								
其他 Miscellaneous (小考 6 次)	20%								

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.)

- 1. Optoelectronics and Photonics: Principles and Practices, Author: S.O. Kasap and Ravindra Kumar Sinha
- 2. 光電子學(中文版翻譯書) (Kasap: Optoelectronics and Photonics—Principles and Practices, 2/e) 林清富、張炳章

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)