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## ②图 i 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/Sen	113/2		
Cour		名稱(英文) me 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			
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 Objecti	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									
課程目標與系專業 力相關性 系專業能力 Correlation betwe Course Objective Basic Learning Outcomes and Dept.'s Education Objectives						力相關性 relation between urse Objectives and Dept.'s			
A	A 具有獨立研究能力Equipped with abilities of independent research.								
В	Opto-electronic engineering							•	
С	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								
D								0	
E	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	F 具有良好的溝通與團隊合作的能力。Ability to communicate and teamwork								
G	G 具有創新思維及終身學習的能力。Creative thinking and life-long learning ability								
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated									
授 課 進 度 表 Teaching Schedule & Content									
週次	Week		內容		備註Remarks				
1		Chapter 1 Wave	Chapter 1 Wave Nature of Light						
2		Chapter 1 Wave	Nature of Ligh						
į	3	Chapter 1 Wave	Nature of Ligh	t					
4	1	Chapter 1 Wave	Nature of Light						
5 Chapter 1 Wave Nature of Light									

6								
7								
8	民族掃墓節							
9								
10								
11								
12								
13								
14 Chapter 4 Stimulated Emission Devices								
15								
16								
17	期末考試週 Final Exam							
18	Chapter 4 Stimulated Emission Devices	線上上課						
	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 □ 產學合作 Industy-Academia Cooperation								
跨域合作(Transdisciplinary Projects)								
──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 Percentage	多元評量方式 Assessments							
Items		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	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)