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②图 i 東華大學 教學計劃表 Syllabus

教字計劃衣 Syllabus									
	名稱(中文) ame in Chinese	光纖通訊			學年/學期 Academic Year/Sem	ester	113/1		
	名稱(英文) me in English Optical Fiber Communications								
	斗目代碼 urse Code	系級 OE_52940 Department 碩: & Year			開課單位 Course-Offering Department	光	光電工程學系		
	修別 Type 選修 Elective					0/3.0	3.0		
	授課教師 Instructor /賴建智								
	先修課程 Prerequisite								
課程描述 Course Description									
培養學生具備基本物理學知識, 包含一維及二維古典物理, 波動學, 電磁學及近代物理, 並為未來習修專業課程作準備.									
課程目標 Course Objectives									
簡介光纖通	訊之基本理論及元	件與系統							
系專業能力 Basic Learning Outcomes							課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A 具有獨立研究能力Equipped with abilities of independent research. D 具有光電工程的專業知識及應用能力。Professional knowledge and application ability of							0		
Opto-	electronic enginee	ering					•		
L 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							0		
D 使用儀器進行物件的分析及測試。Analysis and test of devices by instruments							0		
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							0		
F 具有良好的溝通與團隊合作的能力。Ability to communicate and teamwork							0		
G 具有創新思維及終身學習的能力。Creative thinking and life-long learning ability							0		
圖示說明I	llustration :	● 高度相關 Hi	ghly correla	ited O	中度相關 Moderately	corre	lated		
		授課進	度 表 Teaching	g Schedu	le & Content				
週次Week		內容	Subject/Topi		備註Remarks				
1 Introduction to		fiber				◎9/9 (一) 開學			
2	Introduction to	fiber							
3	Fiber structure	es and fabricat	◎09/17 (二) 中秋節						
4	Fiber structure	es and fabrication							
5 Fundamentals of fiber optics						◎10/10 (四) 國慶日			

6	Fundamentals of fiber optics						
7	Signal propagation in fibers						
8	Signal propagation in fibers						
9	期中考 Midterm Exam	◎期中考週					
10	Fiber light source	◎11/13 (三)全校運動會(停課一天)					
11	Fiber light source						
12	Optical detector and receiver						
13	Optical network system						
14	Testing of optical communication						
15	期末考 Final Exam - Oral presentation						
16	期末考 Final Exam - Oral presentation						
17	期末考 Final Exam - Oral presentation	◎期末考週					
18							
教學策略 Teaching Strategies							
✓ 課堂講授 Lecture							
	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)							
上] 社會責任(Social Responsibility)							
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									
期中考成績 Midterm Exam									
期末考成績 Final Exam	80%			~					
作業成績 Homework and/or Assignments									
其他 Miscellaneous (Attendance)	20%								課堂簽到

評量方式補充說明

Grading & Assessments Supplemental instructions

*期中考與期末考均無補考。

*期中考與期末考分數不得為0分或個位數。

*請假請依校規辦理,未依校規者依曠課或缺考辦理。

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.)

参考書:Fundamentals of Optical Fibers, by John A. Buck, Wiley; 2nd edition (2004) Fiber-Optic Communication Systems, by Govind P. Agrawa, Wiley; 4th edition (2010) Fiber Optic Test and Measurement, by Dennis Derickson, Prentice Hall (1997)

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)