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②图 i 東華大學 教學計劃表 Syllabus

		3. C.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~ 5 - 1	abab				
	名稱(中文) me in Chinese	電路學		學年/學期 Academic Year/Sem	學年/學期 cademic Year/Semester				
	名稱(英文) me in English	Basic engineering circuit analysis							
	·目代碼 rse Code	系級 開課單位 OE10380 Department 学一 Course-Offering Department				光	光電工程學系		
	修別 Type	學程 Program	0/3.0	3.0					
	課教師 tructor	/林伯彦							
	修課程 equisite								
路的分析方法					京理與其分析方法,此 在放大器)與其所構成的				
		課	:程目標 Cour	se Object	ives				
讓學生瞭解	基本電路理論與分	析方法。							
条專業能力 Basic Learning Outcomes						Cor	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
				chemistry,	material, and math		•		
knowledge related to opto-electronic engineering B 具有光電工程的專業知識及應用能力。Professional knowledge and application ability of 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							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II	llustration :	● 高度相關 H:	ighly correla	ated 🔾 🕈	'度相關 Moderately	corre	lated		
		授課進	度 表 Teachin	g Schedul	e & Content				
週次Week		內容 Subject/Topics					備註Remarks		
1	1 課程介紹								
2	Introduction: 1	Basic Concepts							
3 Basic Laws (I)									
4 Basic Laws (II)									

5	Methodo of Analysis (I)							
	Methods of Analysis (I)							
6	Methods of Analysis (II)							
7	Circuit Theorems (I)							
8	Circuit Theorems (II)							
9	期中考試週 Midterm Exam							
10	Operational Amplifiers (I)							
11	Operational Amplifiers (II)							
12	Capacitors and Inductors							
13	Capacitors and Inductors							
14	First-Order Circuits (I)							
15	First-Order Circuits (II)							
16	Second-Order Circuits (I)							
17	Second-Order Circuits (II)							
18	18 期末考試週 Final Exam							
	教學策略 Teaching Strategies							
✓ 課堂講	授 Lecture 分組討論Group Discussion 参觀實習 Fi	ield Trip						
▼ 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								
社會責任(Social Responsibility)								
在地實踐Community Practice 產學合作 Industy-Academia Cooperation								
■ 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(含出缺席) General Performance (Attendance Record)	40%	~					~		
期中考成績 Midterm Exam	30%	~							
期末考成績 Final Exam	30%	~							
作業成績 Homework and/or Assignments									
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.)

Textbooks:

1. Susan Riedel and James W. Nilsson, Electric Circuits, 11th Edition, Pearson, 2020.(滄海代理)

References:

- 1. James A. Svoboda and Richard C. Dorf, Introduction to Electric Circuits, 9th Edition, John Wiley & Sons, Singapore, 2018.(滄海代理)
- 2. Charles K. Alexander and Matthew N.O. Sadiku, Fundamentals of Electric Circuits, 7th Edition, McGraw-Hill Education, NY, 2021 (東華書局代理) ISBN13:9781260570793

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)

課程進度內容依實際上課狀況作滾動式調整。