❷園豆東華大學 教學計劃表 Syllabus

		秋日	产可则农	3y 1 1 abu	ა					
	課程名稱(中文) se Name in Chinese			Ac	學年/學期 ademic Year/Sem	ester	114/1			
	課程名稱(英文) se Name in English	TINATIONALELIAIS AND INATIOLECTROLOGY								
	科目代碼 Course Code	OE52400	系級 Department & Year		開課單位 rse-Offering Department					
	修別 Type El ective 學分數/時間 Credit(s)/Hour(s) 3.0/3									
	授課教師 Instructor									
	先修課程 Prerequisite									
課程描述 Course Description										
課程目標 Course Objectives										
糸専業能力 Basic Learning Outcomes							程目標與系專業能 力相關性 relation between urse Objectives and Dept.'s Education Objectives			
А	Equi p		s of independent re							
В	Professional knowledge and application ability of Opto-electronic engineering									
С	experiment, write repo	Abilities to design and execute periment, write reports, and explain data								
D	Analysis and test of devices by instruments									
Е		E	English Language ab	ility to stu	dy and interact					
F		Ability	/ to communicate ar	d teamwork						
G	Creative thinking and life-long learning ability									
圖示訴	注明Illustration :	● 高度相關 Hi	ighly correlated	l ○中度相	關 Moderately	corre	lated			
		授課進	度表 Teaching So	chedule & Co	ontent					
週次W	/eek	內容 Subject/Topics					備註Remarks			
1	Overvi ew	Overvi ew								
2	Introduction t	Introduction to Nanomaterials and Nanotechnology								
3	Physical Chemi	Physical Chemistry of Solid Surface (I)								
4	Physical Chemi	Physical Chemistry of Solid Surface (II)								
5	O-dimentional	O-dimentional Nanostructures								

6	O-dimentional Nanostructures							
7	1-dimentional Nanostructures							
8	1-dimentional Nanostructures							
9	Midterm Exam							
10	2-dimentional Nanostructures							
11	2-dimentional Nanostructures							
12	Special Nanomaterials							
13	Special Nanomaterials							
14	Applications for Solar Cells							
15	Paper report							
16	Paper report							
17	Fi nal Exam							
18	8							
	教 學 策 略 Teaching Strategies							
✓	Lecture Group Discussion Field Trip							
Mils	scel I aneous:							
	教學創新自評 Teaching Self-Evaluation							
(1	nnovati ve Teachi ng)							
	(PBL) (TBL) (SBL)							
	Flipped Classroom Moocs							
(!	(Social Responsibility)							
	Community Practice Industy-Academia Cooperation							
(Transdi sci pl i nary Proj ects)							
	Transdi sci pl i nary Teachi ng Inter-col legi ate Teachi ng							
	Courses Co-taught with Industry Practitioners							
ot he	~: 							

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
() General Performance (Attendance Record)	10%								
Midterm Exam	30%								
Fi nal Exam	30%								
Homework and/or Assignments									
Miscel I aneous	30%								

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.)

Textbook:

"Nanostructures and Nanomaterials: Synthesis, Properties and Applications", Guozhong Cao, (MSE, University of Washington, USA) Imperial College Press, London, UK, April 2004.

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.)

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其他補充說明(Supplemental instructions)