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②图 i 東華大學 教學計劃表 Syllabus

	名稱(中文) me in Chinese	磁性材料學年/學期Academic Year/Semes					112/1			
	名稱(英文) me in English	Magnetic Materials								
	-目代碼 rse Code	系級 開課單位 MS_53200 Department				材料科學與工程學系				
	修別 Type	1/笙修 HIACTIVA 2 0/2 0								
	授課教師 Instructor /傳彥培									
	先修課程 Perequisite									
課程描述 Course Description										
介紹磁性材料,使學生了解磁性材料的性質、類型以及應用的重要性										
		課	程目標 Cours	e Object	ives					
讓學生在修習此一課程後,能對磁性材料有深入的了解,以利研究工作的進行。										
点專業能力 Correlation Course Obtained Basic Learning Outcomes and December Education Educ							程目標與系專業能 力相關性 relation between urse Objectives and Dept.'s Education Objectives			
	A 具備材料科學所需的進階物理、化學及數學的知識。Acquire required advanced physical, chemical, and mathematic knowledge for materials science and engineering.									
具備材料科學的進階專業知識,並能應用於解決工程上之問題。Acquire required advanced professional knowledge for materials science and engineering, applicable in solving engineering problems.										
C具備獨	C 具備獨立研究之能力。Equipped with capabilities of independent research.									
	具備專業道德及責任感,與良好的溝通及團隊合作的能力。Acquire professional morality and responsibility, and capability of quality communication and team cooperation.									
E 具備適當的英文能力,應用於學習與交流。Acquire English capability used for learning and interaction.										
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	週次Week 內容 Subject/Topics					1	備註Remarks			
1	Magnetic Field (1)									
2	Magnetic Field									
3	Magnetic Field (3)									
4	Magnetization a	gnetization and Magnetic Moment (1)								
5	Magnetization a	agnetization and Magnetic Moment (2)								
6	Magnetic Measurement (1)									

7	Magnetic Measurement (2)						
8	Magnetic Measurement (3)						
9	期中考試週 Midterm Exam						
10	Magnetic Properties (1)						
11	Magnetic Properties (2)						
12	Magnetic Domains (1)						
13	Magnetic Domains (2)						
14	Soft Magnetic Materials (1)						
15	Soft Magnetic Materials (2)						
16	Hard Magnetic Materials (1)						
17	Hard Magnetic Materials (2)						
18	期末考試週 Final Exam						
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)							
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	40%	~							
期末考成績 Final Exam	40%	~							
作業成績 Homework and/or Assignments	10%		~						
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、説明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

David Jiles "Introduction to Magnetism and Magnetic Materials" Chapman & Hall.

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.)

自編講義

其他補充說明(Supplemental instructions)