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②國玄東華大學

課 網 Course Outline

材料科學與工程學系學士班

中文課程名稱 Course Name in Chinese		磁性材料						
英文課程名稱 Course Name in English		Magnetic Materials						
科目代碼 Course Code		MS_40700	班 別 學士班 Degree Bachelor's					
修別 Type		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0		
先修課程 Prerequisite								
課程目標 Course Objectives								
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。 This course introduces magnetic materials and enables students to understand the nature and types of magnetic materials and the importance of their applications. 系教育目標								
	Dept.'s Education Objectives							
1	奠定理論基礎 Set the theoretical foundation							
2	訓練實用技能 Train the practi							
3	培養優質人格 Form the positive cher							
4	啟發創新思 Promote creative thinking							
5	開展國際視野 Develop global vision							
系專業能力 Basic Learning Outcomes					力相關性 Correlati between C Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A	具備材料科學所需的物理、化學及數學的知識。 Acquire required basic physical, chemical, and mathematic knowledge for materials science and engineering.					•		
В	Acquire required	業知識,並能應用於解決 professional knowled applicable in solvin	ge for materi	als science	(•		

	具備邏輯思考、實驗執行、報告撰寫與數據解釋之能力。					
C	Equipped with capabilities of logic thinking, execution of					
	experiment, and data interpretation.					
	具備專業道德及責任感,與良好的溝通及團隊合作的能力。					
D	Acquire professional morality and responsibility, and					
	capability of quality communication and team cooperation					
Е	具備適當的英文能力,應用於學習與交流。	7,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						
課程大綱						
Course Outline						
內容主要介紹電磁基本原理、磁化現象、磁異向性、氧化物磁性材料、合金磁性材料、						
光磁存錄應用、磁阻及磁致伸縮的應用。						
This course introduces the basic principles of electromagnetism, magnetization						
phenomena, magnetic anisotropy, oxide magnetic materials, alloy magnetic materials,						
optical magnetic recording applications, magnetoresistance and magnetostriction						
applications.						
資源需求評估(師資專長之聘任、儀器設備的配合・・・等)						
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)						
以具有所開課程專長之教師擔任授課;資料整理所需之電腦、影印機;討論所需之投影						
機、幻燈機等教學設備。						
Teachers with expertise in the courses offered; computers for data organization, copy						
machines, projectors.						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						

以指定教材按預訂進度進行教學。教學以講授及討論為主,必要時以相關文獻資料加以

The course will be taught according to the scheduled of the assigned materials. Teaching is based on lectures and discussions, supplemented by relevant literature when necessary.

> 其他 Miscellaneous