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②國玄東華大學

課 綱 Course Outline

材料科學與工程學系學士班

中文課程名稱

Cou	rse Name in nese						
英文課程名稱 Course Name in English		Fundamental Experiments in Materials (II)					
科目代碼 Course Code		MS30200	班 別 Degree	學士班 Bachelor's			
修別 Type		學程 Program	學分數 Credit(s)	2. 0	時 數 Hour(s)	4.0	
先修課程 Prerequisite							
課程目標 Course Objectives							
在使材料本科同學,對於各種相關的材料實驗及技巧有基本的認識 Having basic knowledge of various related materials experiments and techniques for students in Material Science and Engineering.							
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 practical skill						
3	培養優質人格 Form the positive cher						
4	A						
5	開展國際視野 Develop global vision						
		系專業能力			力相關性 Correlat		
Basic Learning Outcomes				Objective Dept.'s	between Course Objectives and Dept.'s Education Objectives		
A	Acquire required	具備材料科學所需的物理、化學及數學的知識。 cquire required basic physical, chemical, and mathematic nowledge for materials science and engineering.			0		
В	具備材料科學的專業知識,並能應用於解決工程上之問題。 Acquire required professional knowledge for materials science and engineering, applicable in solving engineering problems.					•	

	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	\bigcirc				
	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。					
E	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						
材料熱處理實驗(包含:淬火、回火、時效處理等)、陶瓷製程實驗及						
電物	寺性量測實驗等。					
Material heat treatment experiments (including: quenching, tempering, aging						
treatment etc.), ceramic process experiments and electrical characteristics						
measurement experiments etc.						
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.)						
本所師資,須建立「材料實驗室」						
Teachers of this department. A 'Materials Laboratory' is required.						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
課堂實習為主、原理講授為輔。						
Experiments supplemented by lectures on principles						
其他						
Miscellaneous						