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②國玄東華大學

課 網 Course Outline

材料科學與工程學系一般組

中文課程名稱 Course Name in Chinese		相變態					
英文課程名稱 Course Name in English		Phase Transformation					
科目代碼 Course Code		MS_51700	班 別 碩士班 Degree Master's				
修別 Type		選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
課程目標 Course Objectives							
讓學生在修習此一課程後,能對材料的相變態的理論、機制與原因有深入的了解 ,以利研究工作的進行。							
系教育目標 Dept.'s Education Objectives							
1	建立專業知識基礎 Set the professional knowledge foundation						
2	培養專業實驗技能 Train the professional experimental skill						
3	養成獨立研究能力 Insure capabilit	立研究能力 capability of independent research					
4	養成優質社會人格 Form the positive social character						
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進階物理、化學及數學的知識。 A Acquire required advanced physical, chemical, and mathematic knowledge for materials science and engineering.					•	
В	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						

С	具備獨立研究之能力。	\circ				
	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。					
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。	\bigcap				
	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						
本課程內容涵蓋:簡介相變態種類、均質成核、異質成核、顯微組織、界面性質						
、凝固與析出等。						
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。						
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						
料加以補						
其他						
Miscellaneous						