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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		材料相圖					
英文課程名稱 Course Name in English		Phase Diagrams in Materials Science					
科目代碼 Course Code		MS_41140	班 別 Degree	學士班 Bachelor's			
修別 Type		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3.0	
	を課程 requisite						
			課程目標				
Course Objectives							
- to teach students understanding of phase diagrams - to give students opportunity for learning a basic knowledge of materials science							
		-	、教育目標 ucation Objec	tives			
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	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 Correlat between 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	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.						

С	具備邏輯思考、實驗執行、報告撰寫與數據解釋之能力。 Equipped with capabilities of logic thinking, execution of experiment, and data interpretation.				
D	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				
Е	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					
	課程大綱 Course Outline				
The course will teach understanding of phase diagrams. Students will start from the basic knowledge about binary phase diagrams and reactions, next the most common mistakes connected to drawing phase diagrams will be discussed. After that, ternary and quaternary phase diagrams with their sections and projections will be discussed.					
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.)					

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

Lectures, demonstrations, drawings

其他 Miscellaneous