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②國玄東華大學

課 網 Course Outline

材料科學與工程學系國際組

中文課程名稱 Course Name in Chinese		鋼鐵冶煉學					
英文課程名稱 Course Name in English		Steel metallurgy					
科目代碼 Course Code		MSD0160	班 別 Degree		博士班 Ph. D.		
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							
Through the use of metallurgical examples, students' ability to calculate the metallurgical thermodynamics will be cultivated, and through interactive course design, student participation and understanding of the curriculum will be increased.							
系教育目標 Dept.'s Education Objectives							
1 1 1	建立專業知識基礎 Set the professional knowledge foundation						
1 / 1	培養專業實驗技能 Train the professional experimental skill						
1 3 1	養成獨立研究能力 Insure capability of independent research						
1 /1 1 1	養成優質社會人格 Form the positive social character						
1 7 1	開展國際視野 Develop global vision						
		系專業能力 Basic Learning Outcomes		力相關性 Correlat between Objectiv 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 A	acquire required	的進階物理、化學及數學 advanced physical, cl terials science and en	hemical, and	mathematic		•	

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	•			
l 1	science and engineering, applicable in solving engineering problems.				
С	具備獨立研究之能力。 Equipped with capabilities of independent research.	0			
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 students a steel making process from mining the ore to the final products available on a market (i.e. pipes, rods, 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.)					
Financial support for a field trip to China Steel Corporation in Kaohsiung					
課程要求和教學方式之建議					
Course Requirements and Suggested Teaching Methods					
Lectures, exercises, field trip					
其他					
Miscellaneous					