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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

Cou	文課程名稱 urse Name in nese	鋼鐵冶煉學					
英文課程名稱 Course Name in English		Steel metallurgy					
科目代碼 Course Code		MS56090	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							
希望藉由冶金實例,培養學生對冶金熱力學之演算能力,並藉由互動課程設計,增加學生之參與及 對課程的理解。							
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 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 (Objective	Course es and Education	
A	具備材料科學所需的進階物理、化學及數學的知識。 Acquire required advanced physical, chemical, and mathematic knowledge for materials science and engineering.					•	
В	Acquire required	階專業知識,並能應用 l advanced profession neering, applicable	nal knowledge f	or materials	S	•	

С	具備獨立研究之能力。	0				
	Equipped with capabilities of independent research.	_				
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。	0				
	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						