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②国玄東華大學

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		工程數學(二)					
英文課程名稱 Course Name in English		Engineering Mathematics (II)					
科目代碼 Course Code		MS_20600	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	
先修課程 Prerequisite		微積分(一)(二)					
課程目標 Course Objectives							
使修習者能夠熟練於未來課程中,所必備的基本數學技巧。 To enable participants to become familiar with the basic mathematical skills necessary for future courses.							
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	B 培養優質人格 Form the positive cher						
4	A 放發創新思 Promote creative thinking						
5	用展國際視野 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物理、化學及數學的知識。 A 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. ■					•	
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	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	\circ				
	capability of quality communication and team cooperation					
D.	具備適當的英文能力,應用於學習與交流。					
Е	Acquire English capability used for learning and interaction	O				
圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱						
Course Outline						
拉普拉斯變換、傳利葉轉換、複變函數及機率與統計等。						
Laplace transform, Fourier transform, Complex functions, and Probability and						
Statistics 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。						
Teachers of MSE department.						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
課堂講授為主、習題演算為輔。						
Lectures are the main focus, supplemented by exercises and calculations.						
其他						
Miscellaneous						