



課 綱 Course Outline

材料科學與工程學系一般組

中文課程名稱 Course Name in Chinese	電化學原理與腐蝕工程									
英文課程名稱 Course Name in English	Principle of Electrochemistry and Corrosion Engineering									
科目代碼 Course Code	MS_57110	班 別 Degree	碩士班 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										
使學生了解電化學原理，利用電化學原理解釋腐蝕的機制及防蝕的基本原理。										
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					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。 Acquire required advanced physical, chemical, and mathematic knowledge for materials science and engineering.	●									
B 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	●									

C	具備獨立研究之能力。 Equipped with capabilities of independent research.	<input type="radio"/>
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.	<input type="radio"/>
E	具備進階的英文能力，應用於學習與交流。 Acquire English capability used for learning and interaction.	<input type="radio"/>

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱
Course Outline

本課程主要介紹電化學原理，利用電化學原理解釋腐蝕的機制及防蝕的基本原理。

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

其他
Miscellaneous