



## 課 綱 Course Outline

### 材料科學與工程學系學士班

|                                                                                                                                                                                                                           |                                                                                                                                     |                  |                    |                                                                                          |     |
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| 中文課程名稱<br>Course Name in Chinese                                                                                                                                                                                          | 企業實習                                                                                                                                |                  |                    |                                                                                          |     |
| 英文課程名稱<br>Course Name in English                                                                                                                                                                                          | Field Practice                                                                                                                      |                  |                    |                                                                                          |     |
| 科目代碼<br>Course Code                                                                                                                                                                                                       | MS__41180                                                                                                                           | 班 別<br>Degree    | 學士班<br>Bachelor' s |                                                                                          |     |
| 修別<br>Type                                                                                                                                                                                                                | 學程<br>Program                                                                                                                       | 學分數<br>Credit(s) | 3.0                | 時 數<br>Hour(s)                                                                           | 6.0 |
| 先修課程<br>Prerequisite                                                                                                                                                                                                      |                                                                                                                                     |                  |                    |                                                                                          |     |
| 課程目標<br>Course Objectives                                                                                                                                                                                                 |                                                                                                                                     |                  |                    |                                                                                          |     |
| 希望藉由至校外實習，使學生能順利接軌至企業，並能從中學習團隊合作與實務能力，強化自身競爭力。<br>Through the off-campus internship, students will be able to connect smoothly with companies, learn teamwork and practical skills, and strengthen their competitiveness. |                                                                                                                                     |                  |                    |                                                                                          |     |
| 系教育目標<br>Dept.' s Education Objectives                                                                                                                                                                                    |                                                                                                                                     |                  |                    |                                                                                          |     |
| 1                                                                                                                                                                                                                         | 奠定理論基礎<br>Set the theoretical foundation                                                                                            |                  |                    |                                                                                          |     |
| 2                                                                                                                                                                                                                         | 訓練實用技能<br>Train the practical skill                                                                                                 |                  |                    |                                                                                          |     |
| 3                                                                                                                                                                                                                         | 培養優質人格<br>Form the positive cher                                                                                                    |                  |                    |                                                                                          |     |
| 4                                                                                                                                                                                                                         | 啟發創新思<br>Promote creative thinking                                                                                                  |                  |                    |                                                                                          |     |
| 5                                                                                                                                                                                                                         | 開展國際視野<br>Develop global vision                                                                                                     |                  |                    |                                                                                          |     |
| 系專業能力<br>Basic Learning Outcomes                                                                                                                                                                                          |                                                                                                                                     |                  |                    | 課程目標與系專業能力相關性<br>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。<br>Acquire required basic physical, chemical, and mathematic knowledge for materials science and engineering. |                  |                    | ●                                                                                        |     |

|   |                                                                                                                                                          |   |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| B | 具備材料科學的專業知識，並能應用於解決工程上之問題。<br>Acquire required professional knowledge for materials science and engineering, applicable in solving engineering problems. | ● |
| C | 具備邏輯思考、實驗執行、報告撰寫與數據解釋之能力。<br>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。<br>Acquire professional morality and responsibility, and capability of quality communication and team cooperation             | ● |
| E | 具備適當的英文能力，應用於學習與交流。<br>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

1. 於前一學期通過企業面試，確定實習單位後，由課務單位統一排課。
  2. 輔導學生與實習單位認識，進行學期實習。
  3. 期中、期末檢視。
  4. 實習成果報告。
1. After passing the interview with the company in the previous semester and confirming the internship unit, the class service unit will arrange the classes.
  2. Counsel students to get to know the internship unit and conduct semester internship.
  3. Mid-term and final inspection.
  4. Report on internship results.

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

本課程以實習、檢討方式進行。  
This course will be conducted in internship and review.

其他  
Miscellaneous