



課 綱 Course Outline  
電機工程學系碩士班一般組

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|--|--|------------------|------------------|--|-----|
| 中文課程名稱<br>Course Name in Chinese       | 無線通訊   |                  |                  |  |     |
| 英文課程名稱<br>Course Name in English       | Wireless Communication   |                  |                  |  |     |
| 科目代碼<br>Course Code                    | EE_51100   | 班 別<br>Degree    | 碩士班<br>Master' s |  |     |
| 修別<br>Type                             | 選修<br>Elective   | 學分數<br>Credit(s) | 3.0              | 時 數<br>Hour(s)   | 3.0 |
| 先修課程<br>Prerequisite                   | 無  |                  |                  |  |     |
| 課程目標<br>Course Objectives              |  |                  |                  |  |     |
| 讓學生在修習此一課程後，能對無線通訊有深入的了解，以利研究工作的進行。    |  |                  |                  |  |     |
| 系教育目標<br>Dept.' s Education Objectives |  |                  |                  |  |     |
| 1                                      | 高階人才培育—厚實學生專業知能，培育高階科技人才。<br>To cultivate talents with advanced professional knowledg  |                  |                  |  |     |
| 2                                      | 團隊分工領導—落實分工合作觀念，具備領導協調能力。<br>To train students with teamwork leading ability   |                  |                  |  |     |
| 3                                      | 創新思維啟發—訓練專業實用技術，展現創新研發能力。<br>To inspire students with creative thinkin   |                  |                  |  |     |
| 4                                      | 國際視野養成—營造國際宏觀視野，培育全球市場人才。<br>To educate students with global perspectiv  |                  |                  |  |     |
| 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                                      | 培育具備電機電子資訊工程等專業技術研發之能力。<br>To cultivate the research and developing ability of electrical, electronics and information engineering。              |                  |                  | ●  |     |
| B                                      | 培育系統分析、模擬驗證、實作實現之能力。<br>To cultivate the advanced ability of analysis, verification and implementation of systems。                               |                  |                  | ○  |     |
| C                                      | 訓練軟體工具使用與硬體實務驗證相互輔助之能力<br>To train the auxiliary ability between the utilization of software tool and the verification of the hardware practice。 |                  |                  | ○  |     |

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| D | 訓練電機電子資訊專業知識與工程實務相互結合運用之能力。<br>To train the integrate ability between professional EECS knowledge and engineering practice   | ● |
| E | 落實論文研究之群體討論與團隊合作之互助能力。<br>To fulfill the research ability in thesis by group discussion and teamwork cooperation   | ○ |
| F | 落實發掘問題、邏輯分析、克服瓶頸與持續學習之能力。<br>To fulfill the ability of question finding, logical analyzing, bottleneck overcoming and continuous learning  | ● |
| G | 了解學術倫理與智慧財產觀念，掌握國內外產業更迭需求與具備多元專長之能力。<br>To obtain the ability of multi-specialization and to meet the industry demand as well as to have the ability of academic ethics and concept of intellectual property | ○ |
| H | 了解國內外市場變化，具備科技英文閱讀溝通與科技論文寫作之能力。<br>To understand the change of global market and to have the ability of reading, conversation and technical writing in English.  | ○ |

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

課程大綱  
Course Outline

數位蜂巢式行動電話系統、無線個人通訊系統、無線數據通訊。

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.)

以具有所開課程專長之教師擔任授課；資料整理所需之電腦、影印機；討論所需之投影機、幻燈機等教學設備。

課程要求和教學方式之建議  
Course Requirements and Suggested Teaching Methods

以指定教材按預訂進度進行教學。教學以講授及討論為主，必要時以相關文獻資料加以補充

其他  
Miscellaneous