**元智大學電機通訊學院英語學士班設置輔系科目表**

International Bachelor Program in Electrical and Communication Engineering at Yuan Ze University

List of Minor Courses

111.04.20 一一○學年度第六次教務會議通過

Passed by the 6th Academic Affairs Meeting, Academic Year 2021, on April 20, 2022

112.04.19 一一一學年度第六次教務會議修訂通過

Amended by the 6th Academic Affairs Meeting, Academic Year 2022, on April 19, 2023

| 輔系名稱  Minor Title | 輔系科目  Minor Courses | 學分  Credit | 備註  Remarks |
| --- | --- | --- | --- |
| **電機通訊學院**  **英語學士班**  International Program in Electrical and Communication Engineering for Bachelor | 電路學  Circuit Theory | 3 | 必  修  Compulsory |
| 電子學(一)  Electronics(I) | 3 |
| 電子學(二)  Electronics(II) | 3 |
| 電磁學(一)  Electromagnetics (I) | 3 |
| 邏輯電路設計  Digital Logic Design | 3 |
| 邏輯電路實驗  Logic Circuit Lab. | 1 |
| 電子電路實驗(一)  Electronic Circuits Experiments(I) | 1 |
| 電子電路實驗(二)  Electronic Circuits Experiments(II) | 1 |
| 共計 | 18 |
| 工程機率  Probability for Engineers | 3 | 選  修  Elective |
| 訊號與系統  Signals and Systems | 3 |
| 通訊系統  Communications System | 3 |
| 數位通訊  Digital Communications | 3 |
| 電磁學(二)  Electromagnetics(II) | 3 |
| 電磁波  Electromagnetic Waves | 3 |
| 微波工程導論  Introduction to Microwave Engineering | 2 |
| 射頻電路設計與應用  The Design and Applications of RF Circuits | 3 |
| 電子學(三)  Electronics(III) | 3 |
| 通訊電子學  Communication Electronics | 3 |
| 通訊網路  Communications Network | 3 |
| 數位信號處理概論  Introduction of Digital Signal Processing | 3 |
| 數位系統設計與實驗  Digital System Design with Lab | 3 |
| 離散數學  Discrete Mathematics | 3 |
| 機器人作業系統  Robot Operating System | 3 |
| 電機機械  Electrical Machinery | 3 |
| 智慧控制概論  Introduction of Intelligent Control | 3 |
| 機器人概論  Fundamentals of Robotics | 3 |
| 電力電子  Power Electronics | 3 |
| 電動載具技術  Electric Vehicles Technology | 3 |
| 超大型積體電路設計導論  Introduction to VLSI | 3 |
| 數位信號處理概論  Introduction to Digital Signal Processing | 2 |
| 高階數位IC設計  High-Level IC Design | 3 |
| 微感測器及感測電路設計  Design on Micro-Sensor and Sensor Circuits | 3 |
| 線性代數  Linear Algebra | 3 |
| 資料結構  Data Structures | 3 |
| 生物醫學工程概論  Biomedical Engineering | 3 |
| 計算機組織(一)  Computer Structure(I) | 3 |
| 電腦網路  Computer Network | 3 |
| 人機互動概論  Human-Computer Interaction | 3 |
| 深度學習使用Python  Deep Learning with Python | 3 |
| 半導體光學  Semiconductor Optics | 3 |
| 半導體元件物理  Semiconductor Devices Physics | 3 |
| 近代物理(一)  Modern Physics(I) | 3 |
| 再生能源轉換及儲存系統  Renewable Energy Conversion & Storage systems | 3 |
| 半導體製程技術  Semiconductor Processing Technology | 3 |
| 共計 | 109 |

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註 Notes：

1. 必修科目共計**18學分**，必須修習本班認可之**英語授課科目**才予承認。

The compulsory courses offered by this Program must be taken at least 18 credits.

1. 選修科目必須修習本班認可之**科目**才予承認。

The elective courses must offered by this Program.

1. 必須修畢至少**30學分**，才予承認其輔系資格。

An individual student who minors in this Program must take courses mentioned above up to 30 credits or more before he/she can have the minor admitted.