**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

110.05.05 一○九學年度第五次教務會議通過

 Passed by the 5th Academic Affairs Meeting, Academic Year 2020, on May 05, 2021

111.04.20 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 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 |
| 電腦視覺與影像處理概論Introduction to Computer Vision and Image Processing | 3 |
| 通訊網路Communications Network | 3 |
| 數位信號處理概論Introduction of Digital Signal Processing | 3 |
| 物件導向程式設計Object Oriented Programming | 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 |
| 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PythonDeep 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.