**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

**（114學年度入學新生適用）**

（Applicable to Students Admitted in Academic Year of 2025）

114.04.23一一三學年度第五次教務會議通過

 Passed by the 5th Academic Affairs Meeting, Academic Year 2024, on April 23, 2025

| 輔系名稱 Minor Title | 輔系科目（課號/中文課名/英文課名）Course Title (Course Code/Chinese Course Title/English Course Title) | 學分Credit | 備註Remarks |
| --- | --- | --- | --- |
| **電機通訊學院****英語學士班****International Bachelor Program in Electrical and Communication Engineering** | EI205電路學Circuit Theory | 3 | 必修Compulsory |
| EI201電子學(一) Electronics(I) | 3 |
| EI202電子學(二) Electronics(II) | 3 |
| EI206電磁學(一) Electromagnetics (I) | 3 |
| EI107邏輯電路設計 Digital Logic Design | 3 |
| EI108邏輯電路實驗Logic Circuit Lab. | 1 |
| EI207電子電路實驗(一) Electronic Circuits Experiments(I) | 1 |
| EI208電子電路實驗(二) Electronic Circuits Experiments(II) | 1 |
| 共計 | 18 |
| EI203工程數學(一) Engineering Mathematics(I) | 3 | 選修Elective |
| EI228機器學習導論Introduction to Machine Learning | 3 |
| EI211工程機率 Probability for Engineers | 3 |
| EI212訊號與系統 Signals and Systems | 3 |
| EI301通訊系統 Communications System | 3 |
| EI304數位通訊 Digital Communications | 3 |
| EI303電磁學(二) Electromagnetics(II) | 3 |
| EI306電磁波 Electromagnetic Waves | 3 |
| EI402射頻電路設計與應用 The Design and Applications of RF Circuits | 3 |
| EI317電子學(三) Electronics(III) | 3 |
| EI401通訊電子學 Communication Electronics | 3 |
| EI213通訊網路 Communications Network | 3 |
| EI218離散數學 Discrete Mathematics  | 3 |
| EI224多媒體通訊概論 Introduction to Multimedia Communications | 3 |
| EI226雲端計算概論 Introduction to Cloud Computing  | 3 |
| EI330最佳化與啟發式演算法 Optimization and Heuristics | 3 |
| EI415演化計算 Evolutionary Computation | 3 |
| EI404數位信號處理概論 Introduction of Digital Signal Processing | 3 |
| EI223智慧控制概論 Introduction of Intelligent Control | 3 |
| EI223控制系統 Control Systems | 3 |
| EI319自主移動機器人 Autonomous Mobile robot | 3 |
| EI412機器人概論 Introduction to Robotics | 3 |
| EI406電力電子 Power Electronics | 3 |
| EI326電動載具技術 Electric Vehicles Technology | 3 |
| EI309超大型積體電路設計導論 Introduction to VLSI | 3 |
| EI316數位信號處理概論 Introduction to Digital Signal Processing | 2 |
| EI408微感測器及感測電路設計 Design on Micro-Sensor and Sensor Circuits | 3 |
| EI221醫療高科技應用新知 Innovations in Medical High-Tech Applications | 3 |
| EI222人文醫療科技及場域見習 Humanistic Medical Technology and On-site | 3 |
| EI314生物醫學工程概論 Biomedical Engineering | 3 |
| EI409計算機組織(一) Computer Structure(I) | 3 |
| EI311電腦網路 Computer Network | 3 |
| EI318人機互動概論 Human-Computer Interaction | 3 |
| EI320深度學習使用Python Deep Learning with Python | 3 |
| EI215半導體光學 Semiconductor Optics | 3 |
| EI312半導體元件物理 Semiconductor Devices Physics | 3 |
| EI328再生能源轉換及儲存系統 Renewable Energy Conversion & Storage systems | 3 |
| EI413半導體製程技術 Semiconductor Processing Technology | 3 |
| EI417半導體加工技術 Semiconductor Processing Technology | 3 |
| 共計 | 116 |

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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**27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 27 credits or more before he/she can have the minor admitted.