**元智大學電機通訊學院 與 School of Electrical Engineering, Universitas Telkom 雙聯學制**

**元智大學 電機通訊學院英語學士班 必修科目表**

**（113學年度入學新生適用）**

**College of Electrical and Communication Engineering, Yuan Ze University**

**And**

**School of Electrical Engineering, Universitas Telkom**

**Dual Degree Program**

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

**List of Compulsory Courses**

**（For Fall 2024 Admits）**

1113.09.18 一一三學年度第一次教務會議新訂通過

Passed by the 1st Academic Affairs Meeting, Academic Year 2024, on September 18, 2024

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 學年 (Academic Year)  學期(Semester)  科目(Course | 第一學年1st Academic Year | | 第二學年2nd Academic Year | | 第三學年3rd Academic Year | | 第四學年4th Academic Year | |
| 上Fall | 下Spring | 上Fall | 下Spring | 上Fall | 下Spring | 上Fall | 下Spring |
| ★  必  修  科  目  Compulsory Courses  (14 ) |  | 科技英文導讀  Science and Technology English Reading  (2)  EI112 |  | 電子學(二) Electronics(II)  (3)  EI202 |  | 畢業專題 Graduation Project (3)  EEA496 | 畢業專題 Graduation Project (3)  EEB332 | 畢業專題 Graduation Project (3)  EI302 |
| 學期學分小計Credit each semester | 0 | 2 | 0 | 3 | 0 | 3 | 3 | 3 |
| 備註Remarks | 1. 括弧內數字為學分數。 Parenthesized numbers are course credits. 2. 畢業學分128學分，雙聯學生於本班應取得三分之一學分以上，即為43學分。其中包含必修14學分、選修22學分及自由選修7學分(通識教育科目學分只採計至多4學分，超修之學分將不列入畢業學分。) Required credits for graduation is 128 credits, Dual-degree students must earn at least one-third of the required credits for graduation, which is 43 credits, including 14 credits for compulsory ccourses, 22 credits for elective courses, 7 credits for free elective courses (The maximum credits for general education courses is 4, the exceeding credits will not be counted.). 3. **畢業學分**：**43學分** (通識教育科目學分只採計至多4學分，超修之學分將不列入畢業學分。) Required credits for graduation: at least 43 credits, (The maximum credits for general education courses is 4, the exceeding credits will not be counted.) 4. **必修：14學分** Compulsory Courses: 14 credits 5. **選修：至少 22學分。** Elective Courses: at least 22 credits. 6. **自由選修**：**7學分**。Free Elective Courses: 7 credit. 7. 修習碩士班課程以大三以上學生為限，且不得修習碩士在職專班課程。 Master's degree courses are limited to students in their third year or above, and students are not allowed to take courses from the Executive Master program. | | | | | | | |

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**元智大學電機通訊學院 與 School of Electrical Engineering, Universitas Telkom 雙聯學制**

**元智大學 電機通訊學院英語學士班 選修科目表**

**（113學年度入學新生適用）**

**College of Electrical and Communication Engineering, Yuan Ze University**

**And**

**School of Electrical Engineering, Universitas Telkom**

**Dual Degree Program**

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

**List of Elective Courses**

**（For Fall 2024 Admits）**

1113.09.18 一一三學年度第一次教務會議新訂通過

Passed by the 1st Academic Affairs Meeting, Academic Year 2024, on September 18, 2024

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 學年 (Academic Year)  學期(Semester)  科目(Course | 第一學年1st Academic Year | | 第二學年2nd Academic Year | | 第三學年3rd Academic Year | | 第四學年4th Academic Year | | |
| 上Fall | 下Spring | 上Fall | 下Spring | 上Fall | 下Spring | 上Fall | 下Spring |
| 選  修  科  目  Elective  Courses  ( 66) | 基礎程式設計-Python  Fundamental Computer Programming- Python  (2)  EN004 | 基礎程式設計-C  Fundamental Computer Programming- C (2)  EN003 | 醫療高科技  應用新知 Innovations in Medical High-Tech Applications (3)  EI221 | 人文醫療科技  及場域見習  Humanistic Medical Technology and On-site (3)  EI222 | 超大型積體電路  設計導論  Introduction to VLSI  (3)  EI309 | 半導體元件物理Semiconductor Devices Physics  (3)  EI312 | 機器人概論Introduction to Robotics  (3)  EI412 |  |
| 程式語言實驗(一)  Programming Language Labs(I) (1)  EI109 | 程式語言實驗(二)  Programming Language Labs(II) (1)  EI110 | 資料結構  Data Structures (3)  EI219 /  EEA216 | 電資通訊概論  Introduction to Electrical and Computer Communications Engineering  (1)  EI113 | 自主移動機器人 Autonomous Mobile Robot (3)  EI319 | 深度學習使用Python  Deep Learning with Python  (3)  EI320 | 半導體製程技術Semiconductor Processing Technology (3)  EI413 |  |
|  | 邏輯電路實驗 Logic Circuit Lab. (1)  EI108 |  |  | 數位信號處理概論  Introduction of Digital Signal Processing  (3)  EI404 | 電動載具技術  Electric Vehicles Technology  (3)  EI326 | 專業實習（一）  Field Study(I)  (3)  EEB314 |  |
|  |  |  |  | 自動控制（一）  Automatic Control(I)  (3)  EEA351 | 再生能源轉換  及儲存系統  Renewable Energy Conversion & Storage Systems  (3)  EI328 |  |  |
|  |  |  |  | 數位信號處理實驗  Digital Signal Processing Lab.  (1)  EEA387 | 電力電子  Power Electronics  (3)  EI406 |  |  |
|  |  |  |  | 嵌入式系統原理  及實驗  Embedded Systems: Principles and Experiments  (3)  EEB321 | 物聯網應用  技術與實作（一）  IoT Ecosystem and Applications(I)  (3)  EEA494 |  |  |
|  |  |  |  |  | 行動裝置應用程式開發  Mobile Device Application Development  (3)  EEB324 |  |  |
|  |  |  |  |  | 人工智慧與深度  學習  Introduction to Artificial Intelligence and Deep Learning  (3)  EEB330 |  |  |
| 學期學分小計Credit each semester | 3 | 4 | 6 | 4 | 16 | 24 | 9 | 0 |
| 備註Remarks | 1. 括弧內數字為學分數。 Parenthesized numbers are course credits. | | | | | | | | |

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