**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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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ElectiveCourses( 66) | 基礎程式設計-PythonFundamental Computer Programming- Python(2)EN004 | 基礎程式設計-CFundamental 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PythonDeep 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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