**元智大學電機通訊學院等同課程對照表**

**Yuan Ze University College of Electrical and Communication Engineering Equivalent Course Comparison Table**

113.05.01 一一二學年度第八次教務會議通過

Passed by the 8th Academic Affairs Meeting, Academic Year 2023, on May 01, 2024

| **項目Number** | **電機通訊學院英語學士班International Bachelor Program in Electrical and Communication Engineering** | **電機工程學系甲組Department of Electrical Engineering(A)** | **電機工程學系乙組Department of Electrical Engineering(B)** | **電機工程學系丙組Department of Electrical Engineering(C)** |
| --- | --- | --- | --- | --- |
| 1 | EI103(3)普通物理（一）General Physics(I) | EEA121(3)普通物理（一）General Physics(I) |  |  |
| 2 | EI104(3)普通物理（二）General Physics(II) | EEA122(3)普通物理（二）General Physics(II) |  |  |
| 3 | EI106(1)普通物理實驗General Physics Lab. |  | EEB124(1)普通物理實驗General Physics Lab. |  |
| 4 | EI108(1)邏輯電路實驗Logic Circuit Lab. |  | EEB118(1)邏輯電路實驗Logic Circuit Lab. |  |
| 5 | EI211(3)工程機率Probability for Engineers |  | EEB112(3)工程機率Probability for Engineers |  |
| 6 | EI212(3)訊號與系統Signals and Systems |  | EEB211(3)訊號與系統Signals and Systems |  |
| 7 | EI213(3)通訊網路Communications Network |  | EEB312(3)通訊網路Communications Network |  |
| 8 | EI214(3)光學（一）Optics(I) |  |  | EEC209(3)光學（一）Optics(I) |
| 9 | EI215(3)半導體光學Semiconductor Optics |  |  | EEC214(3)半導體光學Semiconductor Optics |
| 10 | EI216(1)光學實驗（一）Optics Lab.(I) |  |  | EEC211(1)光學實驗（一）Optics Lab.(I) |
| 11 | EI217(3)電腦視覺與影像處理概論Introduction to Computer Vision and Image Processing |  | EEB215(3)電腦視覺與影像處理概論Introduction to Computer Vision and Image Processing |  |
| 12 | EI218(3)離散數學Discrete Mathematics |  | EEB220(3)離散數學Discrete Mathematics |  |
| 13 | EI219(3)資料結構Data Structures | EEA216(3)資料結構Data Structures | EEB113(3)資料結構Data Structures |  |
| 14 | EI301(3)通訊系統Communications System |  | EEB303(3)通訊系統Communications System |  |
| 15 | EI303(3)電磁學（二）Electromagnetics(II) |  | EEB304(3)電磁學（二）Electromagnetics(II) | EEC308(3)電磁學（二）Electromagnetics(II) |
| 16 | EI304(3)數位通訊Digital Communications |  | EEB305(3)數位通訊Digital Communications |  |
| 17 | EI305(3)物件導向程式設計Object Oriented Programming |  | EEB430(3)物件導向程式設計Object Oriented Programming |  |
| 18 | EI306(3)電磁波Electromagnetic Waves |  | EEB316(3)電磁波Electromagnetic Waves |  |
| 19 | EI307(3)電機機械Electrical Machinery | EEA323(3)電機機械Electrical Machinery |  |  |
| 20 | EI308(3)行動裝置應用程式開發Mobile Device Application Development |  | EEB324(3)行動裝置應用程式開發Mobile Device Application Development |  |
| 21 | EI309(3)超大型積體電路設計導論Introduction to VLSI | EEA350(3)超大型積體電路設計導論Introduction to VLSI |  |  |
| 22 | EI310(3)智慧控制概論Introduction of Intelligent Control | EEA379(3)智慧控制概論Introduction of Intelligent Control |  |  |
| 23 | EI311(3)電腦網路Computer Network | EEA464(3)電腦網路Computer Network | EEB406(3)電腦網路Computer Network |  |
| 24 | EI312(3)半導體元件物理Semiconductor Devices Physics |  |  | EEC307(3)半導體元件物理Semiconductor Device Physics |
| 25 | EI313(3)光學（二）Optics(II) |  |  | EEC210(3)光學（二）Optics(II) |
| 26 | EI314(3)生物醫學工程概論Biomedical Engineering | EEA489(3)生物醫學工程概論Biomedical Engineering |  |  |
| 27 | EI315(1)光學實驗（二）Optics Lab.(II) |  |  | EEC212(1)光學實驗（二）Optics Lab.(II) |
| 28 | EI316(2)數位信號處理概論Introduction to Digital Signal Processing | EEA244(2)數位信號處理概論Introduction to Digital Signal Processing |  |  |
| 29 | EI317(3)電子學（三）Electronics(III) |  | EEB309(3)電子學（三）Electronics(III) |  |
| 30 | EI318(3)人機互動概論Human-Computer Interaction | EEA479(3)人機互動概論Human-Computer Interaction |  |  |
| 31 | EI322(3)數位系統設計與實驗Digital System Design with Lab |  | EEB318(3)數位系統設計與實驗Digital System Design with Lab. |  |
| 32 | EI324(3)機器人作業系統Robot Operating System |  | EEB335(3)機器人作業系統Robot Operating System |  |
| 33 | EI401(3)通訊電子學Communication Electronics |  | EEB404(3)通訊電子學Communications Electronics |  |
| 34 | EI402(3)射頻電路設計與應用The Design and Applications of RF circuits |  | EEB428(3)射頻電路設計與應用The Design and Applications of RF circuits |  |
| 35 | EI404(3)數位信號處理概論Introduction of Digital Signal Processing |  | EEB403(3)數位信號處理概論Introduction to Digital Signal Processing |  |
| 36 | EI405(3)機器人概論Fundamentals of Robotics | EEA476(3)機器人概論Fundamentals of Robotics |  |  |
| 37 | EI406(3)電力電子Power Electronics | EEA344(3)電力電子Power Electronics |  |  |
| 38 | EI407(3)高階數位IC設計High-Level IC Design | EEA385(3)高階數位ＩＣ設計High-Level IC Design |  |  |
| 39 | EI408(3)微感測器及感測電路設計Design on Micro-Sensor and Sensor Circuits | EEA483(3)微感測器及感測電路設計Design on Micro-Sensor and Sensor Circuits |  |  |
| 40 | EI409(3)計算機組織（一）Computer Structure(I) | EEA335(3)計算機組織（一）Computer Structure(I) |  |  |
| 41 | EI410(3)行動終端之相機Apps程式開發Camera-based Apps Development for Smart Phone | EEA481(3)行動終端之相機Apps程式開發Camera-based Apps Development for Smart Phone |  |  |
| 42 | EI411(3)近代物理（一）Modern Physics(I) |  |  | EEC305(3)近代物理（一）Modern Physics(I) |

備註：

(一) 本表所列之等同課程，學生不得重複修讀及認列畢業學分數。

(二) 同學院各系所之學生，仍應修讀學生所屬系所開設之課程，如果各系所有不同的規定，則以各系所之規定為準。