**元智大學 電機工程學系 碩士在職專班 必修科目表**

**（114學年度入學新生適用）**

**Department of Electrical Engineering, Yuan Ze University**

**List of Required Courses for Executive Master Program**

**(For Fall 2025 Admits)**

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

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| --- | --- | --- | --- | --- |
| 學年  學期  科目 | 第一學年  First Academic Year | | 第二學年  Second Academic Year | |
| 上  Fall Semester | 下  Spring Semester | 上  Fall Semester | 下  Spring Semester |
| 必修科目（4）  Required Courses  (4 credits) | 研究專題(1)  Research Project  EE800 | 研究專題(1)  Research Project  EE800 | 研究專題(1)  Research Project  EE800 | 研究專題(1)  Research Project  EE800 |
| 學期學分小計  Subtotal | 1 | 1 | 1 | 1 |
| 備註  Remarks | 1. 最低畢業學分：34學分(包含畢業碩士論文6學分，必修4學分，選修24學分)。 To satisfy the course requirement for the M.S. degree, the student must successfully complete at least 34 credits including 6 credits of Master’s Thesis.   於修業年限內，選修科目至少需修畢24學分，本系選修至少12學分。 Within the permissible period of study, a minimum of 24 credits from elective courses must be completed, with at least 12 credits offered by the department.   1. 研究專題為必修科目，最多修4學期即可，若在4學期內提前畢業則不足之學分數由選修科目替補。 Research Project are required course and may be repeated to a maximum of four semesters per degree program. Students applying for graduation within four semesters should use elective courses for substitutions.   **研究專題為指導教授輔導同學論文寫作之系列課程，同學於開學選課前，必須確定指導教授並繳交「研究生指導教授申請表」，若未如期完成，則「研究專題」視為不及格。** The 'Research Project' involves a series of courses where professors guide students in thesis writing. Before selecting courses at the beginning of the semester, students must confirm their supervising professor and submit the 'Graduate Student Supervisor Application Form.' Failure to do so by the deadline will result in a failing grade for the 'Research Project'.   1. 學生於修業期間如遇申訴案件，先提交各組研究生事務委員會進行調查後，再報請系務會議裁決。 The appeals filed by registered students should be investigated by the Graduate Student Affairs Committee first and then determined by the Department Affair Meeting. 2. 其餘相關規定(如：跨學制修課、學術研究倫理教育課程、論文原創性比對程序..等)，依「元智大學碩、博士研究生學位考試細則」、「元智大學電機工程學系碩士在職專班以專業實務報告代替碩士論文之認定基準」及「元智大學 電機工程學系碩士班在職專班修業規定」   等相關規定辦理。 For other relevant regulations, such as Courses across the Academic Systems, academic research ethics education courses, and procedures for thesis originality assessment, please refer to the " Regulations Governing the Master Program of Department of Electrical Engineering , Yuan Ze University” | | | |

**元智大學 電機工程學系 碩士在職專班 選修科目表**

**（114學年度入學新生適用）**

**Department of Electrical Engineering, Yuan Ze University**

**List of Elective Courses for Executive Master Program**

**(For Fall 2025 Admits)**

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

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| 課號 | Name | Credit | Ename |
| EE635 | 積體電路元件 | 3 | VLSI Devices |
| EE696 | 多媒體深度學習 | 3 | Deep Learning for Multimedia |
| EE802 | 計算機視覺 | 3 | Computer Vision |
| EE803 | 信號偵測 | 3 | Signal Detection |
| EE804 | 隨機訊號處理 | 3 | Random Signal Processing |
| EE805 | 資料科學 | 3 | Data Science |
| EE806 | 深度學習與視覺應用 | 3 | Deep Learning and its Vision Applications |
| EE807 | 臨床神經影像系統與數據分析 | 3 | Clinical Neuroimage: Systems and Data Analysis |
| EE808 | 強化學習 | 3 | Reinforcement Learning |
| EE809 | 可適性訊號處理 | 3 | Adaptive Signal Processing |
| EE845 | 數位信號處理 | 3 | Digital Signal Processing |
| EE846 | 高頻電路設計 | 3 | High Frequency Circuit Design |
| EE847 | 行動通訊 | 3 | Mobile Communications |
| EE848 | 無線通訊與應用 | 3 | Wireless Communications and Application |
| EE849 | 影像處理 | 3 | Image Processing |
| EE850 | 天線設計實作與量測 | 3 | Antenna Design and Characteristic Measurement |
| EE851 | 行動通訊射頻系統設計簡介 | 3 | Introduction to RF System Design for Mobile Communications Systems |
| EE852 | 科技創新與前瞻思維 | 3 | Science & Technology Innovation and Foresight Thinking |
| EE853 | 高科技產業研析與最佳應用實務 | 3 | Analysis and Best Practice to High-Tech Industry |
| EE854 | 行動通訊標準與開放架構研析 |  | Analysis of Mobile Communication Standards and Open Architectures |
| EE855 | 電信管理虛擬化與資訊安全 |  | Telecommunications Management Virtualization and Information Security |
| EE880 | 傅立葉光學 | 3 | Fourier Optics |
| EE881 | 影像檢測技術 | 3 | Image Inspection and Detection Technique |
| EE882 | 矽光子學導論 | 3 | An Introduction to Silicon Photonics |
| EE883 | 機器學習與其應用 | 3 | Machine Learning and Its Applications |
| EE884 | 人工智慧與其應用 | 3 | Artificial Intelligence and Its Applications |
| EE885 | 光電積體電路 | 3 | Electrooptical Integrated Circuits |