國立金門大學　電機工程學系碩士在職專班 課程規劃表

National Quemoy University Department of Electrical Engineeringl In-Service Master's Program Curriculum Plan

113 學年度入學新生適用

Applicable for students Admitted in Academic Year 2024

本學系碩士生畢業時至少應修滿 30 學分，包括

The Master's Program requires students to complete at least 30 credits for graduation, including:

基礎必修： 10 學分

Professional Required : 10 Courses

專業選修： 20 學分

Professional Electives : 20 Courses

修訂歷程

113年3月07日112學年度第二學期第一次系課程規劃委員會訂定通過
Approved on March 7, 2024, during the 1st Departmental-level Curriculum Planning Committee Meeting of the 2nd Semester, Academic Year 2023

113年4月10日112學年度第二學期第一次院課程規劃委員會訂定通過
Approved on April 10, 2024, during the 1st college-level Curriculum Planning Committee Meeting of the 2nd Semester, Academic Year 2023

113年06月05日112學學學第二學期第一次校級課程規劃委員會通過
Approved on June 5, 2024, during the 1st school-level Curriculum Planning Committee Meeting of the 2nd Semester, Academic Year 2023

	一年級 First Year	上學期 Semester		下學期 Semester		二年級 Second Year	上學期 Semester		下學期 Semester		二年合計 Total
		學分 Credits	時數 Hours	學分 Credits	時數 Hours		學分 Credits	時數 Hours	學分 Credits	時數 Hours	
共同必修 General Required	校園學術倫理數位課程 Research Ethics Education Online Program	0	1								
總計 Total		0		0			0		0		0
專業必修 Professional Required	專題討論(一) Seminar I	2	2			學位論文 Thesis			6	0	
	專題討論(二) Seminar II			2	2						
總計 Total		2		2			0		6		10
專業選修 Professional Electives	科學計算 Scientific computing	3	3			半導體元件及物理 Semiconductor Components and Physical	3	3			
	數位影像處理 Digital Image Processing	3	3			人工智慧 Artificial Intelligence	3	3			
	鎖相迴路設計與應用 Design and Application for Phase Locked Loop	3	3			半導體製程技術 Semiconductor Technology			3	3	
	新能源技術 New Energy Technologies	3	3			計算式智慧 Computational Intelligence			3	3	
	薄膜工程 Thin Film Engineering	3	3			深度學習 Deep Learning			3	3	
	能量轉換原理 Energy Conversion Principle	3	3								
	射頻積體電路與模擬 Simulation and Design of Radio Frequency Integrated Circuits	3	3								
	模式化通訊IC設計 Model-based Communication IC Design	3	3								
	超大型積體電路設計 VLSI Design	3	3								
	計算機網路 Computer Networks	3	3								
	物聯網智慧應用 Intelligent IoT Applications	3	3								
	新世代程式語言 Contemporary Programming	3	3								
	表面工程 Surface Engineering			3	3						
	太陽能技術 Technology of solar energy			3	3						
	通訊網路積體電路設計 Communications Network Integrated Circuit Design			3	3						
	高頻電路佈局與模擬 Layout and Simulation of High Frequency Circuits			3	3						
	類比積體電路設計與模擬 Analog Integrated Circuits: Design and Simulation			3	3						
	編碼理論 Coding Theorem			3	3						
	模糊系統 Fuzzy System			3	3						
	智慧型計算 Intelligent Computation			3	3						
	太陽能電力系統 Solar Power System			3	3						
	資訊安全與隱私 Information Security and Privacy			3	3						
總計 Total		36		30			6		9		81
學期總計 Subtotal		38		32			6		15		

備註：

一、畢業總學分30學分，學位論文6學分，專業必修4學分，專業選修20學分(包含12學分可選修非本系所開設之課程)，必須滿足本學系修讀規定。
The total number of credits for graduation is 30 credits, 6 credits for dissertation, Professional Required: 4 credits , and 20 credits for Professional Electives (including up to 12 credits from outside the department), which must meet the requirements of the department.

二、專業選修課程不分年級。
Professional Electives are not divided into grades.

三、表列選修科目為預定科目，將視實際需要而調整。
Elective courses listed are tentative and may be adjusted according to actual circumstances.

四、專題討論(一)及(二)以指導教授參與的專長組別為主。
Seminar I and II focused on the expertise groups in which the supervising professor participated.

五、研究生須於申請學位考試當學期修得學位論文。
Students must complete their Master's Thesis during the semester they apply for the degree examination.