

國立金門大學 電機工程學系碩士班 課程規劃表

National Quemoy University Department of Electrical EngineeringI 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

修訂歷程

專業必修： 6 學分

專業選修： 24 學分

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

		一年級	上學期		下學期		二年級	上學期		下學期		二年合計 Total
		First Year	Semester	Semester	Second Year	Semester	Semester					
			學分 Credit s	時數 Hours	學分 Credit s	時數 Hours		學分 Credit s	時數 Hours	學分 Credit s	時數 Hours	
共同必修 General Required Courses		校園學術倫理數位課程										
		Research Ethics Education Online Program	0	1								
總計			0		0			0		0		0
專業必修 Professional Required Courses		專題討論(一)(二)(三)(四) Seminar I-IV										
							學位論文 Thesis			6		
總計			0		0			0		6		6
專業選修 Professional Electives	研究基礎領域	科學計算	3	3			校外實習(一)	0	1			
		Scientific computing					Campus Internship I					
							校外實習(二)			0	1	
							Campus Internship II					
	通訊與系統應用領域 Communication and System Application	數位影像處理	3	3			展頻通訊	3	3			
		Digital Image Processing					Spread Spectrum Communications					
		鎖相迴路設計與應用	3	3			高等計算機結構	3	3			
		Design and Application for Phase Locked Loop					Advanced Computer Structure					
		高等電力系統	3	3			嵌入式行動機器人	3	3			
		Advanced Power System					Enbedded Mobile Robot					
		深度學習概論	3	3								
		Introduction to Deep Learning										
		數位信號處理			3	3						
		Digital Signal Processing										
		行動通訊系統			3	3						
		Mobile Communication Systems										
		編碼理論			3	3						
		Coding Theorem										
		模糊系統			3	3						
		Fuzzy System										
		智慧型計算			3	3						
		Intelligent Computation										
	電力電子實務			3	3							
	Practice of Power Electronic											
	深度學習			3	3							
	Deep Learning											
	太陽能電力系統			3	3							
	Solar Power System											
	固態與積體電路領域 Solid state and integrated circuit	薄膜工程	3	3			表面分析技術	3	3			
		Thin Film Engineering					Surface Analysis Techniques					
		能量轉換原理	3	3			智慧控制	3	3			
Energy Conversion Principle						Intelligent Control						
射頻積體電路與模擬		3	3			奈米工程			3	3		
Simulation and Design of Radio Frequency Integrated Circuits						Nanotechnology						
模式化通訊IC設計		3	3									
Model-based Communication IC Design												
半導體製程技術		3	3									
Semiconductor Technology												
新能源技術		3	3									
New Energy Technologies												
射頻無線系統與應用		3	3									
Rf Wireless Systems and												
超大型積體電路設計				3	3							
VLSI Design												
表面工程				3	3							
Surface Engineering												
半導體量測技術			3	3								
Semiconductor Measurement Technology												
太陽能技術			3	3								
Technology of solar energy												
通訊網路積體電路設計			3	3								
Communications Network Integrated Circuit Design												
高頻電路佈局與模擬			3	3								
Layout and Simulation of High Frequency Circuits												
類比積體電路設計與模擬			3	3								
Analog Integrated Circuits: Design and Simulation												
半導體元件及物理			3	3								
Semiconductor Components and Physical												
總計			36		48			15		3		102
學期總計			36		48			15		9		

- 備註：
- 一、畢業總學分30學分，學位論文6學分，專業選修24學分(包含6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, and 24 credits for Professional Electives (including up to 6 credits from outside the department), which must meet the requirements of the department.
- 二、「專題討論(一)-(四)」為在學其修業期間每學期必修0學分1小時之課程。  
"Seminar (I) ~ (IV)" is a compulsory course of 0 credits and 1 hour per semester during the study period.
- 三、專業選修課程不分年級。  
Professional Electives are not divided into grades.
- 四、碩班課程皆與學士班四年級合開。  
The Master's courses is co-taught with the fourth year of the Bachelor's courses.
- 五、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.
- 六、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.
- 七、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.