

**國立金門大學日間部學士班工業工程與管理學系課程規劃表**

National Quemov University Bachelor's Program – Department of Industrial Engineering and Management Curriculum Plan

**111學年度入學新生適用**  
Applicable for Freshmen Admitted in Academic Year 2022

本學系學生畢業時至少應修滿129學分，包括 (Graduation Requirement: A minimum of 129 credits, including:													修訂歷程							
共同必修 8 學分 General Core Curriculum: 8 credits				通識課程 16 學分 General Education Courses: 16 credits																
院必修6學分 College Required Courses: 6 credits				系必修63學分 Department Required Courses: 63 credits																
專業選修 36 學分(包括9學分可選修非本學系所開設之課程) (Professional Electives: 36 credits (including up to 9 credits from other departments))																				
		一年級 First Year		上學期 Semester 一上	下學期 Semester 一下	二年級 Second Year		上學期 Semester 二上	下學期 Semester 二下	三年級 Third Year		上學期 Semester 三上	下學期 Semester 三下	四年級 Fourth Year		上學期 Semester 四上	下學期 Semester 四下	四年合 計 Total		
共同 必修 General Required Courses	通識 General Education	依本校「學生修習通識教育課程須知」規定。																	16	
	體育 Physical Education	依本校「體育課程實施辦法」規定。																	0	
	國文(一)Chinese(I)	2	2																	8
	英文(一)English(I)	2	2																	
	服務教育Service Education	0	1																	
	國文(二)Chinese(II)			2	2															
英文(二)English (II)			2	2																
服務教育Service Education			0	1																
共同必修總計 Subtotal			4	5	4	5													8	
專業必修 Professional Required Courses	院必修 College Required	管理學 Principle of Management	2	2																
		經濟學 Economics	2	2																
		計算機概論 Introduction to Computer	2	2																
	院必修總計 Subtotal		6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
	系必修 Department Required Courses	微積分(一) Calculus I	3	3			工程統計(一) Engineering Statistics (I)	3	3		品質管理 Quality Management	3	3		實務專題(二) Special Topics in Industrial Engineering and Management(II)	3	3			
		設計與工程圖學 Design and Engineering Graphics	3	3			工作研究 Motion and Time Study	3	3		設施規劃 Facilities Planning	3	3							
		工業工程概論 Introduction to Industrial Engineering	3	3			專業英文 Professional English	3	3		人因工程 Ergonomics		3	3						
		微積分(二) Calculus II			3	3	線性代數 Linear Algebra	3	3		系統模擬 System Simulation		3	3						
		程式語言 Programming Language			3	3	作業研究(一) Operations Research (I)		3	3	實務專題(一) Special Topics in Industrial Engineering and Management(I)		3	3						
		服務與製造概論 Introduction to Service and Manufacturing			3	3	生產計劃與管理 Production Planning and Management			3	3									
		會計學 Accounting			3	3	工程統計(二) Engineering Statistics (II)			3	3									
							工程經濟 Engineering Economics			3	3									
		系必修總計 Subtotal		9	9	12	12	0	12	12	12	0	6	6	9	9	0	3	3	63
專業必修總計Subtotal			15		12	0	12	12	12	0	6	9	9	0	3			69		
專業選修 Professional Electives	資訊安全與倫理 Information Security and Ethics	2	2			成本會計 Cost Accounting	3	3		作業研究(二) Operations Research (II)	3	3		全面品質管理 Total Quality Management	3	3				
	行銷管理 Marketing Management			2	2	客戶關係管理 Customer Relationship Management	2	2		專案管理 Project Management	3	3		可靠度工程 Reliability Engineering	3	3				
	心理學 Psychology			2	2	網路程式與應用 Network Programming and Applications	3	3		企業資源規劃 Enterprise Resource Planning	3	3		永續工程與管理 Sustainable Engineering and Management	3	3				
	工業安全 Industrial Safety			2	2	服務系統設計 Design of Service System			3	3	物聯網實務與應用 Practical Applications of the Internet of Things	3	3		製造策略規劃 Manufacturing Strategy and Planning	3	3			
						財務管理 Financial management			2	2	物料與供應鏈管理 Materials and Supply Chain Management	3	3		人工智慧與資料探勘 Artificial Intelligence and Data Mining	3	3			
											電子商務 Electronic Commerce	3	3		機器學習 Machine Learning	3	3			
											田口方法 Taguchi Method		3	3	專業實習(一) Professional Practice I		3	3		
											六標準差 Six Sigma		3	3	科技管理 Technology Management			3	3	
											精實生產 Lean Production		3	3	自動化生產系統 Automated Production Systems			3	3	
											決策分析 Decision Analysis		3	3	證照專題 Special Topics on Professional Certifications			3	3	
											服務創新與管理 Service Innovation and Management		3	3	專業實習(二) Professional Practice II		3	3		
											雲端與數位內容管理 Cloud and Digital Content Management		3	3						
											資料庫管理系統 Database Management System		3	3						
											半導體製程概論 Introduction to Semiconductor Processing		3	3						
	專業選修總計Subtotal				8				13				42				33		96	
學期總計Subtotal			43			37				57				36				173		

備註：

1. 學生必須修畢共同必修課程8學分，通識課程16學分，院必修6學分，專業必修63學分，專業選修至少36學分(包括9學分可選修非本系所開設之專業課程)，始得畢業，畢業學分最低為129學分，且須通過「本校學生英文及資訊能力畢業門檻及輔導辦法」及本系學生畢業規定始可畢業。  
1. 8 credits of common required courses,16 credits of general education courses, 6 credits of required courses, 63 credits of major required courses and at least 36 credits of major elective courses (9 credits of exclusive major courses are acceptable) are necessarily gained, totally at least 129 credits for graduation; in addition, "Undergraduate English Language Proficiency Policy and Guidance Rules" and relevant requirements from each department should be fulfilled and be complied with as well.

2. 實務專題（一）、實務專題（二）以分組授課或專業實習之方式進行學術性或實務性的專題研討。

2.' Special Topics in Industrial Engineering and Management(I)'and ' Special Topics in Industrial Engineering and Management(II)' are conducted in dividing students in several groups or by professional internship programs for discussion on academic and practical issues.

3. 專業實習（一）、專業實習（二）依本校「日間部大學部專業實習課程開設準則」及本系「學生實習要點」規定辦理。

3. Professional Practice (I) and Professional Practice (II) shall be conducted according to the "Guidelines for the Establishment of Professional Internship Courses in the Daytime Bachelor's Program" and the "Key Points of Student Internship" of this department.