

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

114學年度入學新生適用
Applicable for Freshmen Admitted in Academic Year 2025

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		二年級 Second Year		三年級 Third Year		四年級 Fourth Year		四年合計 Total								
		上學期 Semester 1	下學期 Semester 2	上學期 Semester 1	下學期 Semester 2	上學期 Semester 1	下學期 Semester 2	上學期 Semester 1	下學期 Semester 2	上學期 Semester 1	下學期 Semester 2							
		學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.	學分/時數 Cr./Hr.							
共同必修 General Required Courses	通識 General Education	依本校「學生修習通識教育課程辦法」規定。Follow the university's "General Education Curriculum Guidelines" – 16 credits										16						
	體育 Physical Education	依本校「體育課程實施辦法」規定。Follow the university's "Physical Education Curriculum Guidelines" – 0 credit										0						
	國文(一)Chinese(I)	2	2															
	英文(一)English(I)	2	2															
	國文(二)Chinese(II)		2	2														
	英文(二)English (II)		2	2														
共同必修總計 Subtotal		4	4	4	4						8							
專業必修 Professional Required Courses	管理學 Principle of Management	2	2															
	院必修 College Required	2	2															
	計算機概論 Introduction to Computer																	
	經濟學 Economics		2	2														
	院必修總計 Subtotal	4	4	2	2	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 Operations Research		3	3	實務專題(一) Special Topics in Industrial Engineering and	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	6	6	9	9	0	3	3	0	0
專業必修總計 Subtotal		13	14	0	12	12	0	6	9	0	3	0	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	作業研究應用 Operations Research Applications	3	3	全面品質管理 Total Quality Management	3	3						
	人工智慧導論 Introduction to Artificial Intelligence	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						
	行銷管理 Marketing Management	2	2	資料結構 Data Structure	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						
	心理學 Psychology		2	2	服務系統設計 Design of Service System		3	3	物料與供應鏈管理 Materials and Supply Chain Management	3	3							
					財務管理 Financial management		2	2	電子商務 Electronic Commerce	3	3							
					工業安全 Industrial Safety		2	2	物聯網實務與應用 Practical Applications of the Internet of Things	3	3							
					資料庫管理系統 Database Management System		3	3	網路程式與應用 Network Programming and Applications	3	3							
									科技管理 Technology Management		3	3						
									田口方法 Taguchi Method		3	3						
									六標準差 Six Sigma		3	3						
									精益生產 Lean Production		3	3						
									決策分析 Decision Analysis		3	3						
									服務創新與管理 Service Innovation and Management		3	3						
									資料探勘 Data Mining		3	3						
									半導體製程概論 Introduction to Semiconductor Manufacturing Processes		3	3						
專業選修總計Subtotal		8		18		42		33		101								
學期總計Subtotal		43		42		57		36		178								

備註：

1. 學生必須修習共同必修課程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)' are conducted under "Open Standards of Professional Internship Relevant Courses for Day Schools" and "Internship Conducting Directions" of IEM.