

慈濟大學113學年度四年制資訊科技與管理學系開課科目及學分時數表

Tzu Chi University

Bachelor's Degree Program in the Department of Information Technology and Management (IT&M), 133 credits. Fall 2024

113.06.25 校課程委員會修訂通過

Category 科目類別	Course Title in Chinese 課程中文名稱	Course Title in English 課程英文名稱	Credits 學分	Hours 時數	Year 1		Year 2		Year 3		Year 4		Note
					1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	
Basic General Courses (Required) 共同必修	中文閱讀與書寫	Chinese Reading and Writing	2	2	2								8 credit(s) 8學分
	基礎英文	Fundamental English	2	2	2								
	*程式設計	Programming	2	2	2								
	慈濟人文	Tzu-Chi Philosophy	2	2		2							
	*程式設計：網頁視覺程式設計(2)、APP程式設計入門(2)、邏輯與運算思維(2)。全學年開課，擇一課程修習。 *Programming: Web Visual Programming (2), Introduction to APP Programming (2), Logic and Computational Thinking (2). Classes are open throughout the academic year, and you can choose a course to study.												
	通識選修課程	General Elective Courses	16	16	不限領域自由選修。建議於一、二年級修完。 Elective courses without restrictions in any field. It is recommended to complete them during the first and second years.							16 credit(s) 16學分	
	院通識課程	General Courses of the Colleges	4	4	由各學院規劃。 Planned by each college.							4 credit(s) 4學分	
小計			Total Credits	28	28								
外語課程			Foreign Language Courses	2	2	建議於一、二年級修完。 It is recommended to complete it in the first or second grade.						2 credit(s) 2學分	
Physical Education 體育	運動與健康	Physical Activity & Health	2	2		2							3 credit(s) 3學分
	*活動性體育課程興趣選項	Interest Options for Active Physical Education Courses	1	1	1								
	小計			Total Credits	3	3							
*活動性體育課程興趣選項由體育教學中心所開設選修課程中任選一門。 *The interest option for active physical education courses is to choose any one of the elective courses offered by the Physical Education Center.													
College Courses (Required) 院級課程 (必修)	計算機概論	Introduction to Computer Science	2	2	2								6 credits required
	職場跨領域學習與應用	Interdisciplinary Curriculum Applied in the Occupyp	2	2			2						
	專業英文(一)	Professional English(1)	1	1					1				
	專業英文(二)	Professional English(2)	1	1							1		
	小計			Total Credits	6	6	2	2	1	1			
Professional Basic Courses (Required) 專業基礎 (必修)	微積分	Calculus	2	2	2								27 credits required
	計算機概論實習	Pratice of Introduction to Computer Science	1	2	1								
	程式設計	Programming	2	2	2								
	程式設計實習	Pratice of Programming	1	2	1								
	管理學	Management Fundamentals	3	3	3								
	管理數學	Management of Mathematics	2	2		2							
	物件導向技術	Object-Oriented Technology	2	2		2							
	物件導向技術實習	Object-Oriented Technical Internship	1	2		1							
	資料結構	Data Structure	2	2			2						
	資料結構實習	Data Structures and Lab.	1	2			1						
	機率	Probability	2	2			2						
	統計學	Statistics	2	2				2					
	資料庫管理系統	Database Management System	2	2				2					
	資料庫管理系統實習	Database Management System Internship	1	2				1					
	作業系統	Operating System	3	3					3				
小計			Total Credits	27	32	9	5	5	5	3	1		
Professional Core Courses (Required) 專業核心 (必修)	多媒體設計與製作	Multimedia Production	3	3	3								21 credits required
	管理資訊系統	Management Information System	3	3			3						
	演算法	Algorithms	3	3				3					
	企業資料通訊	Business Data Communications	3	3					3				
	雲端應用	Cloud Application	3	3						3			
	專案企劃	Project planning	1	2					1				
	專題製作(一)	Practical Project 1	1	2						1			
	專題製作(二)	Practical Project 2	1	2							1		
	業界實習	Internship in Professional Practice	3	9								3	
	小計			Total Credits	21	30	3	3	3	4	4	4	
Professional Elective Courses 專業選修	就業課程模組I AI大數據 Employment Course Module I AI Big Data	物聯網	Internet of Things	3	3		3						15 credits required
		資料探勘	Data Mining	3	3			3					
		大數據分析	Big Data Analytics	3	3				3				
		人工智慧	Artificial Intelligence	3	3				3				
		AI深度學習	AI Deep Learning	3	3					3			
		資訊視覺化	Information Visualization	3	3						3		
		AloT實務與應用	AloT Practice and Application	3	3							3	
	就業課程模組II 數位多媒體 Employment Course Module II Digital Multimedia	數位影像處理	Digital Image Processing	3	3		3						15 credits required
		Unity開發實務	Unity Development Practice	3	3			3					
		Unity跨平台應用設計	Unity Multi-Platform Application Development	3	3				3				
		影片剪輯	Video Clips	3	3					3			
		3D電腦動畫	3D Computer Animation	3	3					3			
	一般專選 General Elective Courses	資訊科技與管理概論	An Introduction for Information Technology and Management	2	2		2						16 credits required
		資訊安全管理	Information Security Management	3	3			3					
		資訊服務與學習	E-Service and Learning	2	2				2				
		行動裝置應用程式設計	Mobile Applications Design	3	3						3		
		智慧醫療與照護	Smart Health and Care	3	3							3	
		網頁規劃與設計	Web Planning and Design	3	3							3	
		管理書報討論	Management Seminar	3	3							3	
		醫療資訊管理	Medical Information Management	3	3							3	
	專業選修最低學分數			Minimum Credits	46	46	6	6	6	6	6	10	
Total Credits 學分總計	必修學分數		Total Credits for Required Courses	54	68	14	5	10	8	8	4	5	
	通識課程28學分(必修8+選修16+院通識4)			28	28								
	體育課程3+外語課程2			5	5								
實管專業選修最低學分數			Minimum Total Credits for Elective Courses	46	46		6	6	6	6	6	10	
畢業最低學分數(時數)			Credit Requirements for Graduation	All students are required to complete a minimum of 133 credits									
Remarks: 備註:	<p>1. The graduation threshold for students of this Department is as follows: During the school period, students need to obtain any 2 pieces of domestic second-class skills certificates or international certificates, which are listed in the reward method for this school's students to obtain the department's professional certificates.</p> <p>2. Electives are courses offered in the current semester.</p> <p>一、本系學生畢業門檻如下：學生於在校期間需取得本校學生考取專業證照獎勵辦法中，本系明訂之任何2張國內乙級技能檢定或國際證照。</p> <p>二、專業選修課程依當學期實際開設課程為主。</p>												