

慈濟科技大學 112 學年度資訊科技與管理系碩士班開課科目及學分時數表

Tzu Chi University of Science and Technology, 112<sup>th</sup> Academic Year  
List of Courses in the Master of Information Technology and Management Program

112.01.12 系課程委員會訂定通過(Approved by the Department of Curriculum Committee)

112.01.13 院課程委員會訂定通過(Approved by the College of Curriculum Committee)

112.02.08 校課程委員會訂定通過(Approved by the University of Curriculum Committee)

科目類別 Subject category	科目名稱 Subject name	學分 Credit	時數 Hours	第一學年 (1 <sup>st</sup> year)		第二學年 (2 <sup>nd</sup> year)		備註 Remark
				上學期 1 <sup>st</sup> semester	下學期 2 <sup>nd</sup> semester	上學期 1 <sup>st</sup> semester	下學期 2 <sup>nd</sup> semester	
必修科目 Required subject	研究方法 Research methodology	2	2	2				
	專題研討(一) Seminar I	1	1	1				
	人工智慧 Artificial intelligence	3	3	3				
	專題研討(二) Seminar II	1	1		1			
	智慧醫療大數據 Big data for intelligence medical	3	3		3			
	碩士論文(一) Thesis I	2	2	2				
	碩士論文(二) Thesis II	2	2		2			
	小計 Subtotal	14	14	8	6			
選修科目 Elective subject	統計 Statistics	3	3	3				
	演算法 Algorithm	3	3	3				
	進階統計分析 Advanced statistical analysis	3	3	3				
	機器學習 Machine learning	3	3		3			

選修科目 Elective subject	智慧醫療與照護 Smart health and care	3	3		3			
	人工智慧物聯網 Artificial Intelligence of Things	3	3		3			
	資料科學 Data science	3	3		3			
	深度學習 Deep learning of artificial intelligence	3	3			3		
	雲端運算與巨量資料處理 Cloud computing and big data processing	3	3			3		
	人工智慧於精準醫療之應用 Application of artificial intelligence in precision medicine	3	3			3		
	智慧穿戴式裝置 Smart wearable devices	3	3			3		
	新一代網路技術 New generation network technology	3	3			3		
	決策分析 Decision analysis	3	3			3		
	碩士論文(三) Thesis III	1	1			1		碩二必選 Second-year students must take this course.
	碩士論文(四) Thesis IV	1	1				1	
	資料探勘與視覺化分析 Data mining and visualization analysis	3	3				3	
	大數據管理策略分析 Big data management for strategic analysis	3	3				3	
	智慧醫療整合管理 Smart health integrated management	3	3				3	
	醫學影像處理 Medical image processing	3	3				3	
	老人福祉科技 Elderly welfare technology	3	3				3	
	智慧長照管理 Intelligence long-term care management	3	3				3	
	論文研究 Thesis Research	3	3					碩三(含)以上必選 Third-year students (included) and above must take this course.

備註(Remark)：

1. 最低畢業學分34學分：必修14學分、選修20學分(含)以上。  
The minimum graduation credits are 34 credits: 14 credits for required credits and at least 20 credits for elective courses.
2. 碩一及碩二學生在學期間每學期需修碩士論文課程；碩三(含)以上學生必選「論文研究」。  
First and second-year master's students are required to take master's thesis courses every semester; third-year students (included) and above must take the Thesis Research course.
3. 第一學期結束前須於臺灣學術倫理教育資源中心之網路教學平台修習學術倫理教育研究生課程或校內外辦理之學術倫理教育課程，並取得修課證明。  
Before the end of the first semester, you must take the Graduate Course in Academic Ethics Education at <https://ethics.moe.edu.tw> Center for Taiwan Academic Research Ethics Education or take other academic ethics education courses from the school or other schools to obtain a certificate of attendance.
4. 畢業前須以第一作者身份完成國內外研討會口頭或海報發表或期刊接受刊登至少一篇。  
Before graduation, make sure you publish at least one article as the first author in an academic conference (oral presentation or poster) in Taiwan or abroad - or via an academic journal acceptance.
5. 專題研討(一)、專題研討(二)為全英語上課。  
Seminar I and II are EMI courses, i.e., language of instruction is English.
6. 選修課程依當學期實際開設課程為主。  
Electives are courses offered in the current semester.