

慈濟科技大學112學年度四年制醫學影像暨放射科學系碩士班開課科目及學分時數表

Tzu Chi University of Science and Technology

Master's Degree Program in Medical Imaging and Radiological Sciences (MIRS), 32 credits, Fall 2023

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		Note
					1st Semester	2nd Semester	1st Semester	2nd Semester	
Required courses 必修科目	書報討論(一)	Seminar I	2	2	2				中文及EMI 課程 Both Chinese and EMI Courses
	碩士論文(一)	Thesis I	1	1	1				
	高等放射物理學	Advanced Radiation Physics	2	2	2				
	書報討論(二)	Seminar II	2	2		2			
	碩士論文(二)	Thesis II	1	1		1			
	高等放射化學與生物學	Advanced Radiation Chemistry and Radiation Biology	2	2		2			
	書報討論(三)	Seminar III	1	1			1		
	碩士論文(三)	Thesis III	2	2			2		
	書報討論(四)	Seminar IV	1	1				1	
	碩士論文(四)	Thesis IV	2	2				2	
	小計	Total Credits	16	16	5	5	3	3	
Elective Courses 選修科目	蒙地卡羅研究法	Monte Carlo Method	2	2	2				中文及EMI 課程 Both Chinese and EMI Courses
	放射治療特論	Topics in Radiation Therapy Physics	2	2	2				
	直線加速器蒙地卡羅模擬與應用	Monte Carlo simulation of LINAC and its application	2	2	2				
	生醫影像原理和應用	The principle and application of biomedical imaging	2	2	2				
	數位影像處理與程式寫作	Digital image processing using MATLAB	3	3	3				
	基礎健康研究和生物統計學	Fundamentals of health research and biostatistics	2	2	2				
	核子工程特論	Special Topics in Nuclear Engineering	2	2	2				
	雷射原理與生物醫學應用	Principle and application of Laser in biomedicine	2	2		2			
	質子與重粒子放射治療之蒙地卡羅模擬	Monte Carlo simulation of proton and heavy particle radiotherapy	1	1		1			
	輻射粒子遷移計算模擬	Radiation particle transport calculation and simulation	1	1		1			
	蒙地卡羅應用專題	Special Topics in Monte Carlo Application	2	2		2			
	研究計畫與論文寫作	Research Method and Academic Writing	2	2		2			
核子醫學與奈米科技特論	Special Topic of Nanotechnology and Nuclear Medicine	2	2		2				
Total Credits 學分總計	必修學分數	Total Credits for Required Courses	16						
	選修最低學分數	Minimum Total Credits for Elective Courses	16						
	畢業最低學分數(時數)	Credit Requirements for Graduation	32	All students are required to complete a minimum of 32 credits					
Remarks : 備註 :	<p>1. Graduation Requirements: Students must complete self-learning on the online teaching platform of the Taiwan Academic Ethics Education Promotion Resource Center, pass the online course test, and obtain a course completion certificate.</p> <p>2. Minimum graduation credits: 32 credits: 16 credits of compulsory courses (including 6 credits of master thesis), 16 credits of elective courses (including) or above.</p> <p>3. In case of any changes or discrepancies with the actual course offering, the actual courses and credit hours offered by the Master's Program in Medical Imaging and Radiological Sciences shall prevail.</p> <p>一、本所畢業門檻：須於臺灣學術倫理教育推廣資源中心之網路教學平台自行學習，通過線上課程測驗合格並取得修課證明。</p> <p>二、最低畢業學分32學分：必修16學分(包含碩士論文6學分)、選修16學分(含)以上。</p> <p>三、本表若有變動或與實際開課狀況不同，一律以本所實際開課科目及學分時數為準。</p>								