慈濟大學114學年度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
Master's Degree Program in Medical Imaging and Radiological Sciences (MIRS), 30 credits, Fall 2025

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				
	高等放射物理學	Advanced Radiation Physics	3	3	3				
	學術研究倫理	Research Ethics Education Online Program	0	0	0				
	書報討論(二)	Seminar II	2	2		2			
	高等放射化學與生物學	Advanced Radiation Chemistry and Radiation Biology	3	3		3			
	書報討論(三)	Seminar III	2	2			2		
	書報討論(四)	Seminar IV	2	2				2	
	小計	**Total Credits**	**14**	**14**	**5**	**5**	**2**	**2**	
Elective Courses 選修科目	蒙地卡羅研究法	Monte Carlo Method	2	2	2				
	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	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 and Programming	3	3	3				
	數位影像與醫療智慧應用	Digital Imaging and Medical Intelligence Applications	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	2	2		2			
	輻射粒子遷移計算模擬	Radiation particle transport calculation and simulation	2	2		2			
	研究計畫與論文寫作	Research Method and Acdemic Writing	2	2		2			
Total Credits 學分總計	**必修學分數**	**Total Credits for Required Courses**	**14**						
	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**	**30**	**All students are required to complete a minimum of 30 credits**					
Remarks： 備註：	1.Graduation Requirements:Before graduation, students must participate in at least one academic conference, either on or off campus, as the first author. 2.The minimum graduation credits are 30 credits (excluding master's thesis):14 credits of compulsory courses and 16 credits of elective courses (including) or above. 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. 一、本系碩士班畢業門檻：需於畢業前以第一作者身份參加校內或校外學術研討會至少一次。 二、最低畢業學分30學分(不含碩士論文)：必修14學分、選修16學分(含)以上。 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。								