

慈濟大學醫學影像暨放射科學系 四年制 115 學年度課程地圖

Curriculum Map of 2025 Academic Year for Bachelor's Degree, Medical Imaging and Radiological Sciences (MIRS) Department of Tzu Chi University

Curriculum Map for the 113th Academic Year Enrollment										Educational Objectives Core Competencies	Future Development
	Year 1		Year 2		Year 3		Year 4				
	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester			
Basic General Courses(28) (Required)	Chinese Reading and Writing(2)	Tzu-Chi Philosophy(2)							Educational Objectives To cultivate radiology professionals with both technical expertise and humanistic qualities	Further studies After obtaining a bachelor's degree, graduates from four-year technical programs can pursue overseas studies or apply for domestic graduate programs in radiological medical science and related fields.	
	Fundamental English(2) *programming(4)								Core Competencies 1 - Basic Science Skills 2 - Basic Medical Professional Skills 3 - Professional Competence in Medical	Employment Participate in the advanced and general	
	*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								Physics and Radiation Safety 4 - Radiological Equipment Professional Skills 5 - Radiological Diagnostic Principles and Technical Expertise 6 - Radiation Therapy Principles and Technical Expertise 7 - Nuclear Medicine Diagnosis and Treatment Principles and Technical Professional	medical personnel examinations held by the Examination Yuan to obtain the professional license for medical radiological technologists, and work as a medical radiological technologist in public or private medical institutions.	
	General Elective Courses(16) *Elective courses without restrictions in any field. It is recommended to complete these courses during the first and second years.										
	General Courses of the Colleges(4) *Planned by each college.										
Foreign Language Courses(2) *It is recommended to complete it in the first or second grade.											
Physical Education(3)		Physical Activity & Health(2)							8 - Clinical Professional Skills of Medical Radiologists 9 - Independent Thinking, Analytical, Communication, Coordination, and Teamwork Skills 10 - Medical Professional Ethics and Social Responsibility Skills		
	*The interest option for active physical education courses is to choose any one of the elective courses offered by the Physical Education Center.										
Professional Basic Courses (Required) (37)	General Physics(2) General Physics(Laboratory)(1) General Chemistry(2) General Chemistry Laboratory(1) Calculus II(2) General Biology(2) General Biology(Laboratory)(1)	Calculus II(2) Medical Electronics and Circuits(2) Physics of Radiology II(2)	Applied Mathematics(3) Medical Imaging Processing: An Overview(2) Physics of Radiology II(2) Radiobiology(2) Anatomy(4)	Radiochemistry(2) Physiology(3)	Pathology(2)						
Professional Core Courses for MIRS (Required) (54)			Instrumentation for Diagnostic Radiography(3)	Sectional Anatomy(1) Physics of Radiation Therapy(2) Radiological Technology II(2) Radiation Safety(2)	Radiopharmaceuticals(2) Image Evaluation and Quality Management(2) Instrumentation for Nuclear Medicine(2) Medical Ultrasound(2) Magnetic Resonance Imaging(2) Radiological Technology II(2) Computed tomography images(2) Radiation Measurement(1)	Clinical Medical Images(2) Image Evaluation and Quality Management(2) Medical image processing(2) Picture Archiving and Communication System(1) Special Radiographic Technology(2) Radiation Therapy Technology(3) Instrumentation for Radiation Therapy(2) Nuclear Medicine Technology(2)	Clinical Practice in Radiography(6) Clinical Practice in Nuclear Medicine() Clinical Practice in Radiation Therapy()	Seminar(1)			
Professional Elective Courses for MIRS(12)	Introduction to Radiology(2)	English for Radiological Technology(2) Innovative application of anti-radiation vegetable and fruit beauty care(2)	Anatomy Laboratory(1) Learning by serving in radiological departments(2) Understanding the importance of medical ethics(2) Study of Special Topics I(1)	Physiology Experiment(1) Radiological Technology Practice II(2) Radiation Safety Laboratory(1) Computed Tomography and Dental radiography(2) Study of Special Topics III(1)	Advanced MRI : Clinical Application and Research(2) Radiological Technology Practice II(2) Simulation of Treatment Planning System(1) Study of Special Topics III(1)	Ultrasonography Practice(2) Study of Special Topics IV(1)		Advanced physics and instruments for diagnostic radiography(2) Advanced Nuclear Medicine Imaging Physics and Instrumentation(2) Advanced Radiotherapy Physics and Instrumentation(2) Integrative medicine and clinical application(2) Differential Nuclear Medicine(1)			
Basic General Courses 28 Credits + Foreign Language Courses 2 Credits + Physical Education 3 Credits+Professional Basic Courses (Required) (37)+Professional Core Courses for MIRS (Required) (54)+Professional Elective Courses for MIRS(12)=Total 138 Credits											
Remarks :	1.The graduation threshold for students of this Department is as follows:Graduation threshold of professional ability: Obtain a Radiation Safety Certificate or CPR certificate while studying. 2.In case of any changes or discrepancies with the actual course offering, the actual courses and credit hours offered by the Department of Medical Imaging and Radiological Sciences shall prevail.										