Department of <u>Medical Imaging and Radiological Sciences</u> 4-Year Curriculum for Students Admitted in Academic Year <u>2024</u>

* Credits required for graduation from the Department: <u>143</u> , including:
1. GE core courses: required, <u>18</u> credits
2. GE liberal arts education: elective, <u>10</u> credits
3. Service Education: required, <u>0</u> credits
4. Physical Education: required, <u>0</u> credits
5. College-required courses: <u>3</u> credits (including <u>1</u> college-level cornerstone courses)
6. Department-required courses: 98 credits, including academic + practical courses: 0
credits, academic courses:
70 credits, practical courses: 27 credits, and capstone courses: 1 credits
7. Departmental electives: 14 credits
a. Academic courses: 12 credits; taking 32 credits out of 12 credits
b. Practical courses: 2 credits; taking 6 credits out of 2 credits; at least 0
credits from off-campus internship
8. Other electives: 0 credits
Notes:
1. Students are required to meet the requirements set by the Department for "English
Proficiency," "Information Competency," and "Professional Certification," in addition to
earning the required number of credits to be eligible for graduation.
2. Before graduation, students are required to take at least one required cornerstone course
offered by another college. The credits earned from such courses may be recognized as part
of the credits under the category of Liberal Arts Education, but only a maximum of four
credits will be recognized accordingly. (For more details about required cornerstone course
offered by different colleges, please refer to the announcement on the website of the
Curriculum Section.)

Department of <u>Medical Imaging and Radiological Sciences</u> 4-Year Curriculum for Students Admitted in Academic Year <u>2024</u>

Freshman Year (2024)

Category	Course Code	Course Title	1 st Semester	2 nd Semester	Required / Elective	Remark
General Education	A93A17	Service Education (I)	0		Required	
	A93A18	Service Education (II)		0	Required	
	A93A20	Programming	2		Required	Core
	A93A21	Civic Literacy in the Era of Globalization		2	Required	Core
	A93A22	Chinese Literature 1.0- Reading, Narration and communication		2	Required	Core
ener	A93A30	English in Practice I	1		Required	Core
9	A93A31	English in Practice II		1	Required	Core
	A93A28	Codes in Health and Medicine	2		Required	Core
	A93A29	Secret Codes in Intelligent Technologies		2	Required	Core
nir s	A8EE01	Introduction to fundamental medicine		1	Required	Core
-requ	A8E201	General Chemistry	2		Required	Academic
College-requir ed Courses						
ပိ						
	A53123	General Physics(I)	2		Required	Academic
	A53124	General Physics(II)		2	Required	Academic
ses	A53135	Calculus(I)	2		Required	Academic
\ours	A53137	Practice in Calculus (I)	1		Required	Academic
tment- required Courses	A53136	Calculus(II)		2	Required	Academic
equii	A53138	Practice in Calculus (II)		1	Required	Academic
nt- r	A53134	Advanced Chemistry		2	Required	Academic
rtme	A53139	General Biology	2		Required	Academic
Depart	A53133	Medical Image Processing		2	Required	Academic
	A53141	Working Capability and Occupational Ethics	2		Required	Academic
	A53154	Preliminary investigation of Medical Imaging and Radiological Sciences		1	Required	Practical
al	A53435	Introduction to Radiological		2	Elective	Academic
Departmental Electives	A53153	Applied Biostatistics		2	Elective	Academic
	A53132	Medical Electronics		3	Elective	Academic
Del	A53392	Introduction of AI Application on Medical Images		2	Elective	Academic
,	Total Required Credits for this Academic Year				34	

Department of <u>Medical Imaging and Radiological Sciences</u> 4-Year Curriculum for Students Admitted in Academic Year <u>2024</u>

Sophomore Year (2025)

Category	Course Code	Course Title	1 st Semester	2 nd Semester	Required / Elective	Remark
General Education	A93A15	Physical Education (I)	0		Required	
	A93A16	Physical Education (II)		0	Required	
	A93A23	Chinese Literature 2.0- Critical thinking and creativity in writing	2		Required	Core
	A93A32	English in Practice III	2		Required	Core
9	A93A33	English in Practice IV		2	Required	Core
	A53273	Advanced Physiology		2	Required	Academic
	A53205	Applied Mathematics	3		Required	Academic
	A53207	General Anatomy(I)	2		Required	Academic
	A53206	General Anatomy(II)		2	Required	Academic
es	A53231	General Anatomy and Laboratory(I)	1		Required	Practical
Department-required Courses	A53232	General Anatomy and Laboratory(II)		1	Required	Practical
ed C	A53210	Radiation Biology		2	Required	Academic
	A53120	Radiation Physics(I)	3		Required	Academic
nt-re	A53211	Radiation Physics(II)		3	Required	Academic
rtme	A53219	Radiochemistry & Laboratory(I)	2		Required	Practical
Эера	A53220	Radiochemistry & Laboratory(II)		2	Required	Practical
	A53223	Ultra Sound Diagnostic Technology	2		Required	Academic
	A53229	Ultra Sound Diagnostic Technology Laboratory	1		Required	Practical
	A53311	Magnetic Resonance Imaging(I)		3	Required	Academic
	A53236	Basic Physiology	2		Required	Academic
tal	A53291	Electrical Engineering		3	Elective	Academic
Departmental Electives	A53237	Apprentice of Diagnostic Radiology(I)		1	Elective	Practical
	A53235	Terminology of Radiological		2	Elective	Academic
De						
,	Total Required Credits for this Academic Year				37	

Department of <u>Medical Imaging and Radiological Sciences</u> 4-Year Curriculum for Students Admitted in Academic Year <u>2024</u>

Junior Year (2026)

Category	Course Code	Course Title	1 st Semester	2 nd Semester	Required / Elective	Remark
	A53332	Instrumentation for Diagnostic Radiology (I)	2		Required	Academic
	A53333	Instrumentation for Diagnostic Radiology (II)		2	Required	Academic
	A53334	Radiation Diagnostic Technology (I)	2		Required	Academic
	A53340	Radiation Diagnostic Technology and Laboratory(I)	1		Required	Practical
	A53304	Clinical Radiation Therapy Technology(II)		2	Required	Academic
	A53341	Radiation Diagnostic Technology and Laboratory(II)		1	Required	Practical
SS	A53313	Clinical Radiation Therapy Technology(I)	1		Required	Academic
Course	A53347	Clinical Radiation Therapy Technology and Laboratory (I)	1		Required	Practical
red (A53312	Clinical Radiation Therapy Technology(II)		1	Required	Academic
Department- required Courses	A53346	Clinical Radiation Therapy Technology and Laboratory (II)		1	Required	Practical
ent-	A53337	Radio Pharmacology	1		Required	Academic
ırtm	A53309	Instrumentation for Radiation Therapy	2		Required	Academic
Depa	A53307	Instrumentation for Nuclear Medicine	2		Required	Academic
	A53225	Radiation Dosimetry	2		Required	Academic
	A53338	Radioimmunoassay	1		Required	Academic
	A53301	Pathology		2	Required	Academic
	A53306	Clinical Nuclear Medicine Technology		2	Required	Academic
	A53350	Clinical Nuclear Medicine Technology Laboratory		1	Required	Practical
	A53339	Radiation Treatment Planning		2	Required	Academic
	A53226	Radiation Dosimetry and Health Physical Laboratory		1	Required	Practical
	A53342	Apprentice of Radiology Medical Image		2		Practical
70	A53343	Medical Image Processing and Archiving System	2		Elective	Academic
tives	A53310	Radiation Safety and Protection	2		Elective	Academic
Elec	A53387	Seminar(I)		2	Elective	Academic
ntal	A53385	Apprentice of Diagnostic Radiology(II)		1	Elective	Practical
Departmental Electives	A53380	Computed tomography: technology and principle		2	Elective	Practical
Del	A53384	Magnetic Resonance Imaging(II)		3	Elective	Academic
	A53393	Dental Radiology		1	Elective	Academic
	A53230	Special Photographic		1	Elective	Academic
Total Required Credits for this Academic Year					30	

Department of <u>Medical Imaging and Radiological Sciences</u> 4-Year Curriculum for Students Admitted in Academic Year <u>2024</u>

Senior Year (2027)

Category	Course Code	Course Title	1 st Semester	2 nd Semester	Required / Elective	Remark
	A53424	A Summary in Nuclear Medicine Diagnosis Principle and Technology		1	Required	Summative
	A53401	Ultrasonography Practice	1		Required	off-campus
	A53402	Clinical Radiation Therapy Technology Practice	1		Required	off-campus
	A53403	Computed Tomography Practice	1		Required	off-campus
	A53404	Radiation Dosimetry Practice	1		Required	off-campus
	A53405	Magnetic Resonance Practice	1		Required	off-campus
ırses	A53406	Radiation therapy Planning Practice	1		Required	off-campus
Cor	A53407	General X-Ray Diagnostic Practice	1		Required	off-campus
Department- required Courses	A53408	Mold Room Technique and Simulation Practice	1		Required	off-campus
nt- r	A53409	Special X-Ray Diagnostic Practice	1		Required	off-campus
partme	A53411	Nuclear Medicine Imaging Technology Practice	1		Required	off-campus
Del	A53413	Radioimmunoassay and Nuclear Medicine in-vitro Analysis Practice	1		Required	off-campus
	A53414	Radioisotope Therapy Practice	1		Required	off-campus
	A53415	Cardiac Catheterization Practice	1		Required	off-campus
	A53419	Radiodiagnosis Principle and Technology		1	Required	Academic
	A53420	Radiotherapy Principle and Technology		1	Required	Academic
	A53426	A Summary in Medicine Physics and Radiation Safety		1	Required	Academic
	A53427	A Summary in Radioactive Rays Equipment		1	Required	Academic
	A53445	A Summary in Foundation Medicine		1	Elective	Academic
Departmental Electives	A53360	Medical Image Analysis		2	Elective	Academic
	A53361	Cell Biology		2	Elective	Academic
epar Elec	A53388	Seminar(II)		2	Elective	Academic
O [A53446	Quality Assurance for Radiotherapy Technology		1	Elective	Academic
ŗ	Fotal Requir	ed Credits for this Academic Year			18	