



CURRICULUM PLAN

B.S Medical Radiation Technology Program

Medical Radiation Technologists (MRT) are responsible for performing various radiologic procedures using established radiation standards that assure the safety of both patients and medical personnel. The main objective of the program is to help students acquire the theoretical knowledge and concepts and the clinical and technical skills necessary to safely practice their profession as medical radiation technologists, and to base their practice on accepted professional standards. Innovative types of medical imaging, in which great advances have recently occurred, have been incorporated into the program, thereby providing students with a solid grounding in relevant and up-to-date information and skills. Graduates of the program will have the knowledge and expertise to produce high quality radiographs that will assist in the diagnosis and management of disease and trauma. They will also learn to practice radiation-control procedures to reduce occupational exposure, ensuring the highest level of ethical professional conduct, and thereby committing themselves to the provision of high quality care and service.

At the end of the program, the student will be able to:

1. Identify and admit patients into the care of the radiology department;
2. Prepare the patient for the specific radiologic procedure;
3. Assume responsibility for the safety of the patient and his environment;
4. Perform various types of radiologic procedures according to specified standards that ensure the quality of service;
5. Develop and process radiographic films and check on their quality;
6. Prepare films, radiologic results and data for interpretation by the radiologist;
7. Safely operate the apparatus and equipment used in the radiology department;
8. Apply quality-control protocols specific for the x-ray department;
9. Identify and implement procedural safety precautions for themselves, the patient and other personnel;
10. Maintain ethical conduct and confidentiality in all aspects of their work;
11. Be prepared to practice in a variety of health-care settings with or without supervision.

Commented [NB1]: Is this what it's called? No reference to this term anywhere else.

B.S. I: Medical Radiation Technology

A. First Semester (Fall): Duration = 16 Weeks

Course Title			Credit hrs/ Semester	Lecture hrs/ Week	Lecture hrs/ Semester	Clinical hrs/ Semester
BSCS	160	Anatomy/Physiology I	4	4	64	-
MRTY	180	Int. to MRT	2	2	32	-
BPHS	164	Biophysics	3	3	48	-
HUMS	165	Int. to Psychology	3	3	48	-
HUMS	166	Int. to Sociology	3	3	48	-
ENGL	003	English Language I	3	3	48	-
TOTAL			18	18	288	-

B. Second Semester (Spring): Duration = 16 Weeks

BSCS	161	Anatomy/Physiology II	4	4	64	-
BSCS	181	Cross-sectional Anatomy	3	2	32	32
BPHS	183	Theory of Equipment/MRT	4	4	64	-
ENGL	004	English Language II	3	3	48	-
ELEC	168	Law and Legislation	2	2	32	-
TOTAL			16	15	240	32

C. Summer Session: Duration = 8 Weeks

ENGL	167	Communication Skills	2	4	32	-
MRTY	190	Practicum: MRT	3	-	-	144
TOTAL			5	4	32	144

B.S.II: Medical Radiation Technology

A. First Semester (Fall): Duration = 16 Weeks

	Course Title	Credit hrs/ Semester	Lecture hrs/ Week	Lecture hrs/ Semester	Clinical hrs/ Semester
PATH	220 Pathophysiology I	4	4	64	-
MRTY	223 Tech. of Radio-graphic Imaging I	4	4	64	-
MRTY	225 Princip. of Radio-graphic Procedures I	4	4	64	-
ELEC	210 Cultural Studies	2	2	32	-
MRTY	228 Practicum I: MRT	6	-	-	288
	TOTAL	20	14	224	288

B. Second Semester (Spring): Duration = 16 Weeks

PATH	221 Pathophysiology II	4	4	64	-
MRTY	224 Tech. of Radio-graphic Imaging II	4	4	64	-
MRTY	226 Princip. of Radio-graphic Procedures II	4	4	64	-
BIOS	206 Biostatis/Epidemiology	3	2	32	32
MRTY	229 Practicum II: MRT	6	-	-	288
	TOTAL	21	14	224	320

C. Summer Session: Duration = 8 Weeks

MRTY	227 Radiation Protection and Radiobiology	2	4	32	-
MRTY	230 Practicum III: MRT	3	-	-	144
	TOTAL	5	4	32	144

B.S.III: Medical Radiation Technology

A. First Semester (Fall): Duration = 16 Weeks

Course Title	Credit hrs/ Semester	Lecture hrs/ Week	Lecture hrs/ Semester	Clinical hrs/ Semester
MRTY 301 Special Radiographic Procedures I	3	3	48	-
RESH 310 Research Methodology	2	2	32	-
MRTY 303 Quality Management in Radiology	2	2	32	-
HSA 311 Health Service Administration	2	2	32	-
MRTY 305 Practicum IV: MRT	8	-	-	288
TOTAL	17	9	144	288

B. Second Semester (Spring): Duration = 16 Weeks

MRTY 304 Nuclear Medicine and Radiotherapy	3	3	48	-
MRTY 302 Special Radiographic Procedures II	3	3	48	-
NUTN 207 Nutrition	3	3	48	-
HCE 312 Health Care Economics	2	2	32	-
MRTY 306 Practicum V: MRT	8	-	-	384
TOTAL	19	11	176	384

Total number of credits = 121 credits

Total number of theoretical hours = 1360 hours

Total number of clinical training hours = 1600 hours

Key: 1 credit hour = 1 hour theory
= 2 hours Lab
= 3 hours clinical work.