

Radiation therapy & Radiology technology program (Syrian proposal)

Hours per week	Name of lecture	Semester	Year
-	-	1&2	2021-2022
4	Radiation Protection	3	2022-2023
-	-	4	2022-2023
3	Plain Radiology (X-Ray)	5	2023-2024
4	Radiation therapy planning 1		
2	Radiology techniques in radiation therapy		
4	Radiation devices (linear accelerator)		
2	Simulation & Localization		
2	Recording and Displaying in Radiology	6	
3	Radiation biology		2023-2024
3	Computerize Tomography		
3	Ultrasonography		
4	Radiation therapy Treatment 1		
4	Radiation therapy planning 2		
3	Radiology techniques in Oncology		
2	Molding & Fixators		
3	Techniques and positions in radiology	7	
4	Radiation therapy Treatment 2		2024-2025
3	MRI	8	
4	Imaging with contrast materials		
4	Advance imaging Application		
4	Interventional Radiology		
2	Radioisotopes and ionizing beam dosimetry		
2	Brachytherapy		
4	Gamma Camera		
6	Clinical Practicum in Radiation Therapy		
4	Graduation Project		

1- The B.Sc. in Radiation Therapy semester program (Iran Proposal)

Hours per week	Name of lecture	Semester	Year
-	-	1&2	2021-2022
2	Radiation Protection	3	2022-2023
3	Medical imaging procedures (MRI, CT, Radiology) for radiotherapy application	4	2022-2023
3	Radiation biology (clinical)	5	2023-2024
2	Basics of Oncology		
3	Basic and clinical dosimetry		
3	Radiotherapy equipment (external beam RT (EBRT), brachytherapy (BT), proton therapy (PT))		
3	Principles of calculations and treatment planning in radiation therapy	6	2023-2024
2	Treatment planning of new methods in radiotherapy		
3	Simulation and localization		
2	Quality control and quality assurance in radiation therapy	7	2024-2025
2	Clinical applications of radiation therapy 1		
2	Molding and Fixation		
2	Clinical applications of radiation therapy 2	8	2024-2025
1	Brachytherapy techniques		
2	Special procedures and techniques in radiotherapy		
6	Clinical Practicum in Radiation Therapy		
4	Graduation Project		

Lectures credit: 33

Clinical Practicum credit: 6

2- The B.Sc. in Radiology semester program (Iran Proposal)

Hours per week	Name of lecture	Semester	Year
-	-	1&2	2021-2022
2	Radiation Protection	3	2022-2023
3	Plane radiology (X-Ray)	4	2022-2023
3	Radiation biology	5	2023-2024
3	Radiographic Technique (1)		
2	Record and display images in radiology		
2	Dosimetry of Ionizing Radiation		
2	Structure And Properties Of X-Ray Contrast Media	6	2023-2024
3	Radiographic Technique (2)		
2	Physical Principles of Computed Tomography Systems (CT scan)		
2	Techniques and Clinical Aspects of Computed Tomography Systems (CT scan)	7	2024-2025
2	Physical Principles of Magnetic Resonance Imaging (MRI)		
2	Techniques and Clinical Aspects of Magnetic Resonance Imaging (MRI)		
3	Ultrasound in Medical Imaging Systems	8	2024-2025
2	Preliminary repairs and maintenance of radiology devices		
2	Computer application in medical imaging (Digital Imaging)		
3	Medical images evaluation		
3	Gamma Camera Basics		
6	Clinical Practicum in Radiology		
4	Graduation Project		

Lectures credit: 41

Clinical Practicum credit: 6