

Specialization	Radiologic Technology
Course Number	020810131
Course Title	Radiographic Positioning (1)
Credit Hours	(3)
Theoretical Hours	(1)
Practical Hours	(6)

Brief Course Description:

- ❖ This course provides the students with the basic essential knowledge and information of the positioning techniques in radiography of the upper extremities, lower extremities and vertebral column, as well as their radiographic anatomy.

Course Objectives:

- ❖ Upon the completion of the course, the student will be able to:
 1. Know the basic radiographic anatomy and positioning of the upper extremities.
 2. Know the radiographic anatomy and positioning of the lower extremities.
 3. Know the radiographic anatomy and positioning of the vertebral column.
 4. Apply practical skills related to theoretical material.

Unit Number	Unit Name	Unit Content	Time Needed
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	Introduction	<ul style="list-style-type: none"> • Revision of anatomical and medical terminology. • Positioning principles. • Projection terminology. • Radiographic room preparation and darkroom. • Patient preparation. • Patient monitoring and observation. • Accessory equipments. 	
	Upper Extremities	<ul style="list-style-type: none"> • Pathology and anatomy review of the upper extremities. • Radiographic positioning of the Shoulder & Humerus • Radiographic positioning of the Elbow And Forearm • Radiographic positioning of the Wrist And Hand • Radiographic positioning of the Shoulder • Radiographic positioning of the Humerus • Radiographic positioning of the Elbow • Radiographic positioning of the Forearm • Radiographic positioning of the Wrist 	
	Lower Extremities	<ul style="list-style-type: none"> • Pathology and anatomy review of the Lower extremities. • Radiographic positioning of the hand and digits • Radiographic positioning of the hip and femur. • Radiographic positioning of the knee. • Radiographic positioning of the leg and ankle. • Radiographic positioning of the foot. • Radiographic positioning of the hip joint. • Radiographic positioning of the femur. • Radiographic positioning of the knee. • Radiographic positioning of the leg and ankle. • Radiographic positioning of the foot and digits. 	
	Vertebral column	<ul style="list-style-type: none"> • Pathology and anatomy review of the Vertebral column. 	

		<ul style="list-style-type: none"> • Radiographic positioning of the cervical spine & neck. • Radiographic positioning of the dorsalspine. • Radiographic positioning of the lumbar spine • Radiographic positioning of the sacrum & coccyx. • Radiographic positioning of the cervical spine & neck. • Radiographic positioning of the lumbar spine. • Radiographic positioning of the sacrum & coccyx. 	
	<p>Myelography</p>	<ul style="list-style-type: none"> • Preparation • Definition. • Indications. • Contra – Indications • Cervical Myelography. • Dorsal Myelography. • Lumber Myelography. • Contrast used in Myelography. • Complications. • After care & education 	

Teaching Methodology:

1. Lectures.
2. Discussion, Seminars & Quizzes.
3. Home works.
4. Demonstration and practical training.
5. Training field competencies assessment.

References:

1. Clark's positioning in Radiography, 12th Edition 2005.
2. Pocket Guide to Radiography, 5th Edition-2003 by Phillip W. Ballinger, Eugene Frank
3. Merrill's Pocket Guide to Radiography, 13th Edition By Bruce W. Long, MS, RT(, Tammy Curtis, and Barbara J. Smith, 2016.

Text book:

1. Bontragers textbook of radiographic positioning and related anatomy, 9th edition 2017.
2. Anatomy for Diagnostic Imaging 3rd Edition-2010 by Stephanie Ryan Michelle McNicholas Stephen Eustace.