

<b>Specialization</b>	<b>Radiologic Technology</b>
<b>Course Number</b>	<b>020810232</b>
<b>Course Title</b>	<b>Radiographic Positioning (3)</b>
<b>Credit Hours</b>	<b>(3)</b>
<b>Theoretical Hours</b>	<b>(1)</b>
<b>Practical Hours</b>	<b>(6)</b>

**Brief Course Description:**

- ❖ This course covers the basic positioning techniques of the abdomen and pelvis in addition to their basic radiographic anatomy. It also provides the students with the basic radiographic anatomy and positions of the female breast (Mammography), in addition to dental radiography and new imaging modalities (CT, MRI, etc ....).

**Course Objectives:**

Upon the completion of the course, the student will be able to:

1. Know the basic radiographic anatomy of the Abdomen and basic radiographic positions.
2. Know the basic radiographic anatomy of the pelvis and basic radiographic position.
3. Know the radiographic anatomy of the breast and standard position of mammography in addition to additional views.
4. Know the general principles of positioning in new imaging modalities as well as dental radiography.
5. Apply practical skills related to theoretical material.

Unit Number	Unit Name	Unit Content	Time Needed
	<b>Abdomen</b>	<ul style="list-style-type: none"> <li>• Radiographic anatomy of the abdomen.               <ul style="list-style-type: none"> <li>○ Anterior wall.</li> <li>○ Posterior wall</li> <li>○ Skeletal foundation.</li> <li>○ Divisions of abdominal cavity</li> </ul> </li> <li>• Major organs of the abdomen.</li> <li>• Abdominal radiography:               <ul style="list-style-type: none"> <li>○ KUB.</li> <li>○ Plain Abdomen: erect &amp; supine.</li> <li>○ Decubitus plain abdomen.</li> <li>○ Others</li> </ul> </li> </ul>	
	<b>Pelvis</b>	<ul style="list-style-type: none"> <li>• Radiographic Anatomy of the pelvis               <ul style="list-style-type: none"> <li>○ Skeletal framework (bone pelvis)</li> <li>○ Sacroiliac joint.</li> <li>○ Symphysis pubis.</li> </ul> </li> <li>• Major organs of the pelvis.</li> <li>• Pelvis radiography               <ul style="list-style-type: none"> <li>○ Pelvimetry.</li> <li>○ S.I. joints.</li> <li>○ Symphysis pubis.</li> <li>○ Hips, etc...</li> </ul> </li> </ul>	
	<b>Mammography</b>	<ul style="list-style-type: none"> <li>• Radiographic Anatomy of the pelvis               <ul style="list-style-type: none"> <li>○ Skeletal framework (bone pelvis)</li> <li>○ Sacroiliac joint.</li> <li>○ Symphysis pubis.</li> </ul> </li> <li>• Major organs of the pelvis.</li> <li>• Pelvis radiography               <ul style="list-style-type: none"> <li>○ Pelvimetry.</li> <li>○ S.I. joints.</li> <li>○ Symphysis pubis.</li> <li>○ Hips, etc...</li> </ul> </li> </ul>	
	<b>General Principles and Positioning in new imaging modalities</b>	<ul style="list-style-type: none"> <li>• CT Scan.</li> <li>• MRI</li> <li>• Ultrasound.</li> <li>• PET &amp; SPECT</li> <li>• Gamma imaging (nuclear medicine).</li> </ul>	
	<b>Dental Radiography</b>	<ul style="list-style-type: none"> <li>• Occlusal films.</li> <li>• Panoramic film (OPG).</li> </ul>	

**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, 12<sup>th</sup> Edition 2005.
2. Pocket Guide to Radiography, 5th Edition-2003 by Phillip W. Ballinger , Eugene Frank
3. Merrill's atlas of radiographic positioning and radiologic process 12<sup>th</sup> Edition 2016.

**Text book:**

1. Bontragers text book of radiographic positioning and related anatomy, 9<sup>th</sup> edition 2017
2. Anatomy for Diagnostic Imaging 3rd Edition-2010 by Stephanie Ryan Michelle Mc Nicholas Stephen Eustace

**Teaching Methodology:**

- 1- Lectures.
- 2- Discussion and quizzes.
- 3- Demonstration and practical training

**References:**

1. Clark's positioning in Radiography, 11<sup>th</sup> Edition 2003.
2. Pocket Guide To Radiography, 5<sup>th</sup> edition, 2003
3. Philip W. Ballinger Eugene D. Frank.
4. Merrill's Pocket Guide to Radiography, 13th Edition By Bruce W. Long, MS, RT, Tammy Curtis, and Barbara J. Smith, 2016.

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1. Bontragers text book of radiographic positioning and related anatomy, 9<sup>th</sup> edition 2017
2. Anatomy for diagnostic imaging , 3e 2010