

Specialization	Radiologic Technology
Course Number	020810231
Course Title	Radiographic Positioning (2)
Credit Hours	(3)
Theoretical Hours	(1)
Practical Hours	(6)

Brief Course Description:

- ❖ This course covers the basic radiographic anatomy of the skull and basic positioning techniques of the skull, paranasal sinuses, mastoids & mandible. It also deals with the radiographic anatomy of the chest and bony thorax in addition to their basic positioning techniques.

Course Objectives:

- ❖ Upon the completion of the course, the student will be able to:
 1. Know the basic radiographic anatomy and positioning of the skull and its structures.
 2. Know the radiographic anatomy of the chest and lungs in addition to the basic positioning techniques.
 3. Know the radiographic anatomy and positioning of the bony thorax (thoracic cage).
 4. Apply practical skills related to theoretical material.

Unit Number	Unit Name	Unit Content	Time Needed
1	SKULL	<ul style="list-style-type: none"> • Pathology and anatomy review of the skull. • Basic radiographic anatomy and positioning of the skull • Calvarium: <ul style="list-style-type: none"> ○ Bones of calvarium. ○ Articulations (sutures). • Base of the skull: <ul style="list-style-type: none"> ○ Anterior cranial fossa. ○ Middle cranial fossa. ○ Posterior cranial fossa. • Orbital cavity: <ul style="list-style-type: none"> ○ Skeletal foundation. ○ Extra ocular muscles. ○ Outer ear. ○ Middle ear. ○ Inner ear • Temporal & infratemporal regions: <ul style="list-style-type: none"> ○ Parotid gland. ○ Mandible and temporomandibular joint. • Oral Cavity <ul style="list-style-type: none"> ○ Palate. ○ Tongue. ○ Submandibular and sublingual salivary glands. ○ Para nasal sinuses and post nasal space and nose. ○ Mastoids. ○ Skull Foramina. ○ Sella Turcica. • Radiographic positioning of the skull. • Radiographic positioning of Sella turcica. • Radiographic positioning of Para nasal sinuses. • Radiographic positioning of nasal bone & facial bones. • Radiographic positioning of post nasal space. • Radiographic positioning of mandible & T.M. joint mastoid air cells. • Radiographic Positioning of mastoid air cells 	

		<ul style="list-style-type: none"> • Radiographic positioning of orbit & optic foramina. • Radiographic positioning of skull base & foramen magnum. • Radiographic Positioning of Internal auditory canals. • Radiographic Positioning of Dental Radiography. 	
2	Chest	<ul style="list-style-type: none"> • Pathology and anatomy review of the chest. • Radiographic anatomy of the respiratory system: <ul style="list-style-type: none"> <input type="checkbox"/> Larynx. <input type="checkbox"/> Trachea. <input type="checkbox"/> Bronchi. <input type="checkbox"/> Lungs and lungssegments. <input type="checkbox"/> Pleura • Divisions of mediastinum and boundaries. <ul style="list-style-type: none"> <input type="checkbox"/> Heart: anatomicalsurfaces. <input type="checkbox"/> Major vessels ofmediastinum: <ul style="list-style-type: none"> · Aorta. · SVC. · IVC • Radiographic position of the chest including lungs, heart andaorta. • Radiographic position of the pharynx, larynx andtrachea. • Radiography of thediaphragm. • Radiography of the thoracinlet. 	
3	Bony Thorax	<ul style="list-style-type: none"> • Pathology and anatomy review of the Thorax. • Radiographic anatomy of the thoracic cage: <ul style="list-style-type: none"> <input type="checkbox"/> Ribs. <input type="checkbox"/> Scapula and dorsalspine. <input type="checkbox"/> Clavicles. <input type="checkbox"/> Sternum. <input type="checkbox"/> Sternoclavicularjoint. • Radiographic positions ofsternum. • Radiographic positions ofscapula. • Radiographic positions of ribs: <ul style="list-style-type: none"> <input type="checkbox"/> Upperribs. <input type="checkbox"/> Lowerribs. • Radiographic position of sterno- 	

		clavicular joint. • Radiographic position of acromio - clavicular joint.	
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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 text book of radiographic positioning and related anatomy, 9th edition 2017
2. Anatomy for Diagnostic Imaging 3rd Edition-2010 by Stephanie Ryan Michelle Mc Nicholas Stephen Eustace

Teaching Methodology:

1. Lectures.
2. Discussion, Seminars & Quizzes.
3. Home works.

4. Demonstration and practical training.
5. Training field competencies assessment.

References:

4. Clark's positioning in Radiography, 11th Edition 2003.
5. Pocket Guide To Radiography, 5th edition, 2003
6. Philip W. Ballinger Eugene D. Frank.
7. Merrill's atlas of radiographic positioning and radiologic process 12th Edition 2016.

Text book:

3. Bontragers text book of radiographic positioning and related anatomy, 9th edition 2017
4. Anatomy for diagnostic imaging , 3e 2010