



Course Syllabus of Cross Sectional Anatomy

Faculty: Faculty of Medicine and Health Sciences

Department: Health science

Program: Bachelor in Radiologic Technology and Medical Imaging

I. General information about the course instructor :							
Name	Dr. Fahd Thawaba	Office Hours(2 Hours Weekly)					
Location & phone number	4116	Sat	Sun	Mon	Tue	Wed	Thu
Email	drthawaba@Yahoo.com				√		

II. General information about the course:						
1.	Course Title :	Cross Sectional Anatomy				
2.	Course Code and Number :	BMI221				
3.	Credit Hours :	Credit Hours				Total
		Theoretical	Seminar/Tutorial	Practical	Training	
		2	-	1	-	3
4.	Study Level and Semester:	2 nd year/ 2 nd Semester				
5.	Pre-requisites :	BHS130				
6.	Co-requisites :	None				
7.	Program in which the course is offered:	Bachelor in Radiologic Technology and Medical Imaging				
8.	Teaching Language:	English				
9.	Instruction location:	University of Science and Technology, Sana'a ,Yemen				

III. Course Description
<p>This course concern in learn student how to identify macroscopic structures of the body regions , head , neck , chest , abdomen , pelvis and extremities on cross sectional images produced either by CT scan or MRI. The images displayed in axial, coronal and sagittal planes, with different formats and windows such as soft tissues , bone, lung, T1,T2....etc. Terms related to directions and relations between structures also will be discussed in this course. Lectures, practical demonstration and other teaching strategies will be used. The students will be evaluated through practical exam, written exam and assignment. Anatomy is prerequisite course.</p>

عميد الكلية:
د. عبدالله المخلافي

رئيس القسم:
د. عبد الخبير رومان

المراجع :
د. صدام الزوفي
د. مجاهد نصار

الموصف :
د. فهد ثوابه

APPROVED

الجودة

IV. Course Aims: This course is aimed to:

1. Enable students to describe sectional images and structures appeared on it by using suitable anatomical terms.
2. Assist student to determine relations between structures on cross sectional images.
3. Learn student the anatomical structures of the Head, Neck, Thorax, Abdomen, Pelvic, Spine, and Extremities on cross-sectional images .
4. Provide the student the skills to differentiate between CT and MRI images based on appurtenance of anatomical structures .
5. Provides students with knowledge about the effects of contrast media on the appearance of body structures.

V. Course Intended Learning Outcomes (CILOs) :

1. Identify anatomical structures on sectional images and its relations using suitable anatomical terms .
2. Describe formats and plans of sectional images.
3. Recognize T1, T2, FLAIR, STIR weighted images.
4. Correlate between gross anatomy and cross sectional anatomy of body structures.
5. Distinguish anatomical variant related to the images format and imaging modalities.
6. Differentiate CT and MRI images with different formats e.g. bone window, soft tissue window, T1 and T2.
7. Use an appropriate radiographic imaging modality in the study of the tissues of various anatomical structures.
8. Practice suitable preparation in case of contrast administration that may alter radiographic appearance of body structures.
9. Transact professionally with other health care provider, patients and their relevant.



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VI. Course content:

Topics/Units of Course Contents

First: Theoretical Aspects

No.	Course Topics/Units	Sub-topics	Week due	Contact Hours
1	Introduction	-Course orientation -Terms related to body plans, directions -Images format	1 st	2
2	Sectional anatomy of the chest	-Thoracic wall (major muscles) and bony thorax - Mediastinum -lungs and air ways - Heart and blood vessels	2 nd ,3 rd	4
3	Sectional anatomy of the abdomen	-Abdominal wall(Major muscles) -Peritoneal sac, intra-peritoneal organs and retro-peritoneal organs -liver lobes and segments - Blood vessels	4 th ,5 th	4
4	Sectional anatomy of the pelvis	-Male pelvis -Female pelvis - Blood vessels -Major muscles	6 th	2
5	Sectional anatomy of the upper limb	-Bones and joints of the upper limb. -Major ligaments and tendons - Blood vessels -Major muscles	7 th	2
	Sectional anatomy of the lower limb	-Bones and joints of the lower limb -Major ligaments and tendons - Blood vessels -Major muscles	8 th	2
6	Mid-term exam		9 th	2
7	Sectional anatomy of the head	-Cerebrum , cerebellum, midbrain and basal ganglia -Cranial and facial bones -CSF and cisterns -PNS -Petrous bone -Blood vessels -Major muscles	10 th .11 th , 12 th	6
9	Sectional anatomy of the spine	-Vertebral column -Spinal cord -Ligaments and muscles -Blood vessels	13 th	2
10	Sectional anatomy of the neck	-Pharynx -Larynx -Blood vessels -Major muscles	14 th	2
11	Final exam		15 th	2
Total number of weeks and hours			15	30



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Second: Practical/Tutorial/Clinical Aspects			
No.	Practical/Tutorial/Clinical topics	Week due	Contact Hours
1	Introduction to demonstration lab	2 nd	2
2	Sectional anatomy of the chest	3 rd ,4 th	4
3	Sectional anatomy of the abdomen	5 th ,6 th	4
4	Sectional anatomy of the pelvis	7 th	2
5	Sectional anatomy of the upper limb	8 th	2
6	Sectional anatomy of the lower limb	9 th	2
7	Sectional anatomy of the head	10 th , 11 th	4
8	Sectional anatomy of the spine and neck	12 th	2
9	Final practical exam	13 th	2
Total number of weeks and hours		12	24



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