

Course Syllabus of Clinical Practice 4

Faculty: Medicine and Health Sciences

Department: Health Sciences

Program: Bachelor in Radiologic Technology and Medical Imaging

I. General information about the course instructor :

Name	Dr. Amin Mohsen Amer	Office Hours(3 Hours Weekly)					
Location & phone number	UST- 775948767	Sat	Sun	Mon	Tue	Wed	Thu
Email	aminalflahi@gmail.com	1		1		1	

II. General information about the course:

1. Course Title :	Clinical Practice 4			
2. Course Code and Number :	BMI425			
3. Credit Hours :	Credit Hours			Total
	Theoretical	Seminar/Tutorial/Practical	Training	
	-	-	4	4
4. Study Level and Semester:	4th level / 2nd semester			
5. Pre-requisites :	BMI416			
6. Co-requisites :	BMI421			
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

This course provides the student opportunity to clinically apply concepts and principles of advanced imaging modalities learned in the same semester. The student will be required to prove competency in imaging techniques and protocols of CT, MRI, Ultrasonography. The teaching will include practice sessions with collaborative learning, dialogue and discussion.. The students will be evaluated through report, and practical exam. Clinical practice 3 course is a Pre-requisite for this course.

APPROVED

عميد الكلية:
د. عبدالله المخلافي

رئيس القسم:
د. عبدالحبيب القباطي

١٣ / ٨

المراجع:
د. مجاهد نصار

الموصف:
أمين الفلاحي

IV. Course Aims:

1. Providing student the clinical skills related to imaging techniques and protocols of CT, MRI and ultrasonography
2. Improve the student capabilities in using modern techniques and protocols related to advanced imaging modalities.
3. Learn the student the ability of dealing with medical imaging information records and registrations particularly PACS.
4. Providing student the fundamental skills of Multiplanar reconstruction imaging in advanced modalities.
5. Enhance the abilities of student in commitment of discipline rules as member of medical imaging team.

V. Course Intended Learning Outcomes (CILOs) :

1. Identify the fundamentals of conventional and advance medical imaging procedures after using applied clinical approach.
2. Analyze the imaging protocols and procedures and recognize the errors and limitations if occur during the imaging process
3. Estimate the image quality regarding to the QA issues and standards with determining if the image acceptable (diagnosable) or not.
4. Manipulate the conventional radiographic machines safely according to the manual operation (manufacturer's instructions) .
5. Apply the radiation protection issues and devices to protect the patients, themselves, and others
6. Perform the QA tests and procedures to ensure optimal operation of exposure factors and techniques.
7. Perform the appropriate preparation and positioning of the abdomen, vertebral column, skull, thorax and ribs radiography.
8. Communicate effectively with patients and their relatives during radiographic imaging processes as well as other health team members.
9. Prepare appropriate environment for patients, relatives and staff using the suitable procedures.



VI. Course content			
Clinical Aspects			
No.	Clinical topics	Week due	Contact Hours
1	principles and terminology	1 st	12
2	Scanning skills of basics imaging protocols and techniques related to ultrasonography	2 nd , 3 rd	24
3	Scanning skills of basics imaging protocols and techniques related to computed tomography	4 th , 5 th , 6 th	36
4	Scanning skills of basics imaging protocols and techniques related to magnetic resonance imaging	7 th , 8 th , 9 th	36
5	Scanning skills of basics imaging protocols and techniques related to radionuclide imaging	10 th , 11 th	24
6	Recent and modern techniques and protocols in advanced imaging modalities	12 th , 13 th	24
7	Quality control in advanced modalities and adequate using of PACS	14 th	12
8	Final exam	15 th	12
Total number of weeks and hours		15	180

١٣ / ١٠



المراجع :
د. مجاهد نصار

المؤلف :
أمين الفلاحي