



Course Syllabus of Pathology

Faculty: Medicine and Health Sciences

Department: Health science

Program: Bachelor in Radiologic Technology & Medical Imaging

I. General information about the course instructor :

Name	Mogahid Yahya Nassar	Office Hours(2 Hours Weekly)					
Location & phone number	771341873	Sat	Sun	Mon	Tue	Wed	Thu
Email	Mogahidnassar@yahoo.com				√		

II. General information about the course:

1. Course Title :	Pathology				
2. Course Code and Number :	BMI212				
3. Credit Hours :	Credit Hours				Total
	Theoretical	Seminar/Tutorial	Practical	Training	
	2	-	1	-	3
4. Study Level and Semester:	2 nd year /1 st semester				
5. Pre-requisites :	None				
6. Co-requisites :	None				
7. Program in which the course is offered:	Bachelor in Radiologic Technology & Medical Imaging				
8. Teaching Language:	English				
9. Instruction location:	University of Science and Technology, Sana'a				

جامعة العلوم والتكنولوجيا
إدارة ضمان الجودة والاعتماد
مُعْتَمَد
APPROVED

عميد الكلية:
د. عبد الله المخلفي

رئيس القسم:
د. عبد الحبيب ريمان

١٥ / ٩

المراجع:
د. ادیب صالح
د. امین الفلاحی

الموصف:
د. مجاهد لطيف

III. Course Description

The course allows students to learn basic concept of the various disease processes in the body as well the basic molecular, cellular and reactions to various injurious agents, including adaptations, necrosis & apoptosis. It discusses the basic pathological principles of inflammation, hemodynamic disturbances and neoplasia Also this course gives an overview on the main pathological diseases of cardiovascular system, respiratory system, gastrointestinal system, musculoskeletal system, genitourinary system and nervous system The teaching strategies will include lectures, practical application, self-learning and assignment. The students will be evaluated through report, written exam and practical exam.

IV. Course Aims: This course is aimed to:

1. Provides the students with the essential basic scientific knowledge required to understand in an integrated manner the structure and functional deviations from the normal in the various body systems and organs.
2. Familiarize students with the basic pathology.
3. Understand the etiology, pathogenesis and pathologic manifestation of disease process.
4. Gain an understanding of the pathology of common pathologic conditions that involve the various body systems that can contribute to the radiographic appearance
5. Provide the students with the skills of differentiation between normal and abnormal tissues

V. Course Intended Learning Outcomes (CILOs) :

at the end of this course the students must be able to:

1. Recognize terms and divisions in general pathology.
2. Explain the etiology and pathogenesis of disease & it's effects on the body.
3. Discuss the principles of inflammation , repair , circulatory dysfunction and neoplasia.
4. Describe the common pathologic conditions that involve the various body systems that can contribute to the radiographic appearance system.
5. Correlate the signs and symptoms of a disease with the underlying gross & microscopic tissue.
6. Categorize the pathologic picture of diseases based on gross and microscopic morphology.
7. Demonstrate proper handling of microscope to view the cells.
8. Demonstrate the ability to identify the macroscopic and microscopic criteria of the pathologic structure .
9. Cooperate with supervisors and colleagues in pathology lab and show the appropriate responsibility, self-confidence and behaviors.



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د. امین الفلاحی

الموافق:
د. مجاهد نصیر

VI. Course Content:				
First: Theoretical Aspects				
No.	Course Topics/Units	Sub-topics	No. of Weeks	Contact Hours
1	Introduction and cell injury	Definition Causes of cell injury Types of cell injury	1 st	2
2	Adaptation	Atrophy Hypertrophy Hyperplasia Metaplasia Dysplasia Carcinoma in-situ	2 nd	2
3	Necrosis	Definition Causes Types apoptosis		
4	Inflammation	Acute inflammation Suppurative inflammation. Chronic inflammation	3 rd ,4 th	4
5	Repair	Types Fibrosis Wound healing		
6	Circulatory disturbance	Thrombosis Clot Embolism Ischaemia Infarction Congestion Oedema Haemorrhage	5 th .6 th	4
7	Mid Exam		7 th	2
8	Neoplasia	Definition Classification Characters Benign Malignant Examples	8 th ,9 th	4
	Pathology of the musculoskeletal system	Kyphosis Exostosis Marble Bone Metastasis Osteosclerotic Bone tumours Paget's Disease Degenerative disease(osteoporosis).	10 th	2
	Pathology of the Gastrointestinal system	Oesophageal Achalasia Esophageal Varices Hernias	11 th	2

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		Diverticula Intussusception Volvulus Ascities Cirrhosis of the liver Cholelithiasis(Gallstones) Cholecystitis Tumours		
	Pathology of the Cardiovascular system	Rheumatic heart fever Myocardial infarction Cardiac hypertrophy Cardiomyopathy Pericardial Effusion Atherosclerosis Aneurysm Tumours	12 th	2
	Pathology of the respiratory system	Atelectasis Bronchiectasis Pleural Effusion Silicosis Pneumonia, lung abscess Tuberculosis COPD emphysema, Tumours	13 th	2
	Pathology of the nervous system	Tumours Hydrocephalus		
	Pathology of the renal system	Cystic Diseases of the Kidney Nephrolithiasis Urolithiasis Congenital disorders of kidney (Ectopic Kidney, Horseshoe kidney) Hydronephrosis, Pyelonephritis, urethral stricture, Renal failure Tumours	14 th	2
	Pathology of the genital system	Ovarian cysts and tumor, ectopic pregnancy Pelvic inflammatory disease BPH Prostatic carcinoma	15 th	2
9	Final exam		16 th	2
Total number of weeks and hours			16	32

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الموصف:
د. مجاهد نصار

Second: Practical/Tutorial/Clinical Aspects			
No.	Practical/Tutorial/Clinical topics	No. of Weeks	Contact Hours
1	Tissue processing and how to use the microscope	2 nd	2
2	Gross & microscopic features of Necrosis	3 rd	2
3	Gross & microscopic features of inflammation	4 th	2
4	Gross & microscopic features of Thrombosis, ischaemia and infarction	5 th	2
5	Gross & microscopic features of Neoplasia	6 th	2
6	Pathological disorders of musculoskeletal system	7 th	2
7	Pathology of the Gastrointestinal system	8 th	2
8	Pathology of the Cardiovascular system	9 th	2
9	Pathology of the respiratory system	10 th	2
10	Pathology of the renal and nervous system	11 th	2
11	Pathology of the genital system	12 th	2
12	Exam	13 th	2
Total number of weeks and hours		12	24

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