Republic of Yemen

Ministry of Higher Education & Information Technology

Emirates International University



Faculty of Dentistry Department of Basic science

Doctor of Dental Surgery

Course Specification of General Pathology

Course No. (----)

EMIRATES NIESYMPERAN

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Review committee:

Head of the Department

Dean of Faculty





J	. Course Identification and Gene	eral In	formatio	on:	
1	Course Title:	General	Pathology		
2	Course Code & Number:				
		Credi	Theory	Hours	Lab.
3	Credit Hours:3	t Hours	Lecture	Exercise	Hours
		3	2		2
4	Study level/ semester at which this course is offered:	2 nd Level / 2 nd Semester			
5	Pre -requisite (if any):	Anatomy, Physiology, Histology			
6	Co -requisite (if any):	None			
7	Program (s) in which the course is offered:	Doctor of Dental Surgery			
8	Language of teaching the course:	English			
9	Study System	Semester based System			
10	Mode of delivery:	Full Time			
11	Location of teaching the course:	Faculty	of Dentistry		

II. Course Description:

Prepared By:

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Pathology is defined as the study of disease. The aim of the course is to provide the students with a basic education about the general pathology which is concerned about the basic abnormal alterations in the cells and tissues as a result of diseases. To understand the etiology, pathogenesis and structural changes (gross pathology and histopathology) of pathological lesions of different and common diseases. Each lecture lasts 1 hour and is illustrated with macroscopic and microscopic photographs. On the laboratory practical sessions the students can learn the basic macroscopic and microscopic skills and ability to recognize the pathologic lesions describe them. To help the students to find the lesions on their own slides the lecturer will dend the lesions with the data show and power point slides. The students will have an opportunity of drawings and notes of the slides. The topics of the practical study match the lectures

Dr. Amin Okbah

III.	Course Intended Learning	Referenced PILOs
111.	course intended bearining	Referenceupilos





	Outcomes (CILOs): Upon successful completion of the course, students will be able to:	L	earniı	ng out of program
	A. Knowledge and Understanding:	I, A or E		
al	Understand the basic mechanisms of (aetiology and pathogenesis) and body react course and outcomes) to injury		A1	Describe the scientific basis of dentistry and the relevant biomedical and behavioral sciences which form the basis for understanding human growth, development and health.
a2	Understand the normal and altered morphology (gross & microscopy) of different organ systems of the human body		A2	Explain the structure and function of the human body in health and disease related to the practice of dentistry.
	B. Intellectual Skills:		A.	
b1	Recognize the difference between neoplastic and non-neoplastic lesions based on morphological and clinical characteristic features		B1	Incorporate theoretical basic biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.
b2	Able to solve pathological problems		B2	Apply critical thinking and evidence- based problem solving when providing patient's care.
	C. Professional and Practical Skills:			
c1	Diagnose and fully describe the patho picture of a disease based on morpho clinical data and laboratory investigations		C1	Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out different investigations to reach a correct diagnosis and treatment.
c2	Differentiate between benign and malignant tumors by their morphology		C5	Plan when, how and where to refer a patient to a specialist based on clinical assessment.
	D. Transferable Skills:			
d1	Make computer search and use the library to search for information		D1	Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice.
d2	Work effectively as an individual and as a member of a team		000	Demonstrate leadership and camwork skills with colleagues and er oral health team for effective oral health care.





	Course Intended Learning Outc	omes	Teaching Strategies	Assessment Strategies		
a1	Understand the basic mechanisms (aetiology and pathogenesis) and becourse and outcomes) to injury		- Lectures - Seminars	-Quizzes		
a2	Understand the normal and altered morphology (gross & microscopy) different organ systems of the humbody	of	- Discussion - Case Study	-Midterm Exam -Final Exam		
	(B) Alignment of Course Intende Strategies and Assessment Meth		ng Outcomes (Intelle	ectual Skills) to Teaching		
A	Course Intended Learning Outcomes	Tea	ching Strategies	Assessment Strategies		
b1	Recognize the difference between neoplastic and non- neoplastic lesions based on morphological and clinical characteristic features	-Lectures - Seminars - Discussion		-Quizzes -Midterm Exam -Final Exam - Research		
b2	Able to solve pathological problems	- Case Stu - Brain sto	2	- Homework		
	(C) Alignment of Course Intende Skills) to Teaching Strategies an			ssional and Practical		
	Course Intended Learning Outcomes	Tea	ching Strategies	Assessment Strategies		
c1	Diagnose and fully describe the pathologic picture of a disease ba on morphology, clinical data and laboratory investigations		Experiments	- Practical Exam -Direct observation		
	Differentiate between benign and malignant tumors by their morphology					
c2		CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	ng Outcomes (Trans	sferable Skills) to Teachir		
c2	(D) Alignment of Course Intend Strategies and Assessment Meth		ng Outcomes (11ans			
c2	트림의 얼마나 사람들이 하면 내 이렇게 되었다. 생각 그리고 있다면 그 아니다.	ods:	ching Strategies	Assessment Strategies		





d2 Work effectively as an individual and as a member of a team	DiscussionSelf LearningPresentationSeminars	Research Homework Group work	
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IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contac t Hours	Learning Outcomes (CILOs)
1	Introduction Cell injury	Cellular adaptations of growth and differentiation Intracellular accumulations Reversible and irreversible cell Injury Cell Death: Necrosis and apoptosis	3 weeks	6	a1, a2, b1, b2
2	Inflammation	Acute Inflammation Chronic Inflammation	2 weeks	4	a1, a2, b1, b2,
3	Tissue repair	Regeneration and Repair	1 week	2	a1, a2, b1, b2
4	Diseases of the Immune System	Hypersensitivity reactions, Autoimmunity and autoimmune diseases	1 week	2	a1, a2, b1, b2
5	Midterm Exam	All the above	1 week	2	a1, a2, b1, b2
6	Infectious Diseases	Toxaemia, bacteraemia, septicemia, pyaemia Viral Infections Tuberculosis, Schistosomiasis	1 week	2	a1, a2, b1, b2
7	Hemodynamic Disorders	Congestion, edema, hemorrhage thrombosis, embolism, infarct, shock and DIC	3 weeks	6	a1, a2, b1, b2,
8	Neoplasia	Carcinogenesis, Characteristics Neoplasms, Benign tumors Malignant tumors	3 weeks	6	a1, a2, b1, b2





No.	Units/Topics List	Sub Topics List	Number of Weeks	Contac t Hours	Learning Outcomes (CILOs)
		Aetiology of tumor			
9	Final Exam	All the above	1 week	2	a1, a2, b1, b2
	Number of Wee	16	32		

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	Non neoplastic growth (hyperplasia, hypertrophy, metaplasia and dysplasia), cell degeneration, intracellular accumulation and necrosis	1, 2, 3	6	b1, b2, c1 c2
2	Acute and chronic inflammatory cells, and granulomas	4, 5, 6	6	b1, b2, c1 c2
3	granulation tissue, fibrosis	7	2	b1, b2, c1 c2
4	Review all the above	8	2	b1, b2, c1 c2
5	Infectious Diseases	9	2	b1, b2, c1 c2
6	Congestion, thrombus, infarction	10, 11	4	b1, b2, c1 c2
7	Benign and malignant tumor cells in different organs, lymph node and distant sites involvement, tumor emboli	12, 13	4	b1, b2, c1 c2
8	Review	14	4	b1, b2, c1 c2
9	Final exam	15	2	b1, b2, c1 c2
	Number of Weeks /and Units Per Semester	15	30	





V. Teaching Strategies of the Course:

- Lectures
- Discussion
- Seminars
- Presentation
- Lab Experiments
- Self-Learning
- Case Study
- Brain storm

VI. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Research
- Homework
- Group work

V	II. Assignments:			
No.	Assignments	Week Due	Mar k	Aligned CILOs (symbols)
1	Presentation on Research topic based on	7,14	5	b1, b2, d1, d2
	Total		5	







VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mar k	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Participation and attendance	Weekly	5	5%	a1, a2, b1, b2
2	Assignments	7,14	5	5%	b1, b2, d1, d2
3	Quizzes 1 & 2	6,12	10	10%	a1, a2, b1, b2
4	Midterm Exam	8	20	20%	a1, a2, b1, b2
5	Practical Exam	5	20	20%	b1, b2, c1, c2
6	Final Exam	16	40	40%	a1, a2, b1, b2
A Part of	Total		100	100%	

IX. Learning Resources:

1- Required Textbook(s) (maximum two):

- 1- Vinay Kumar, Abul K Abbas, and Jon C Aster, 2013, Robbins Basic Pathology, 9th Edition, Elsevier Saunders, Printed in Canada
- 2- Rubin, Strayer, and Rubin, 2011, Clinicopathologic Foundations of Medicine, 6th edition, Lippincott Williams and Wilkins, USA, Printed in the USA.
- 3- Harsh Mohan, 2010, Textbook of Pathology, 5th Edition, Jaypee Brothers Medical Publishers, Printed in India.

2- Essential References:

- 1- Rubin, Emanuel; Reisner, Howard M, 2009, Essentials of Rubin's Pathology, 5th Edition, Lippincott Williams, Lippincott Williams and Wilkins, USA, Printed in the USA.
- 2- Liang Cheng and David G. Bostwick, 2006, Essentials of anatomic pathology, 2nd Edition, Humana Press, Totowa, NJ, Printed in the USA..

3- Electronic Materials and Web Sites etc.:

- 1- https://webpath.med.utah.edu/
- 2- http://webpathology.com/
- 3- http://www.pathologyoutlines.com/
- 4- https://www.med.illinois.edu/m2/patholog
- 5- https://www.geisingermedicallabs.com/lab/r

6- https://thepathologist.com/subspecialties/histolbaningATE

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extbook





	X. Course Policies: (Based on the Uniform Students' By law (2007)
1	Class Attendance: -Student has an obligation to be present all lectures of the course regularlyIf student is unable to attend classes for at least 75% and fail to bring class excuse due to unavoidable circumstances such as illness, his/her absence can result in course dismissal and expulsion.
2	Tardiness: -Students should arrive to the classroom punctuallyTardy students should not be allowed to enter the classroom after 15 minutes late.
3	Exam Attendance/Punctuality: - Students should arrive to the exam hall punctually. - Late students should not be allowed to enter the exam hall after 15 minutes of the commencement of the examination. - Student is not allowed to leave the exam hall temporarily or otherwise for any reason before 30 minutes of the commencement of the examination. - If the student fails to take the exam and brings sufficient reason for his absence from the exam, he should be given another chance to take the exam of total marks. Student who fails to appear in the day of exam shall be deemed to have failed the course.
4	Assignments & Projects: Students should do the following: - They should be punctual to handover their assignments to their professor as required. - Assignments & projects should have clear outline for their content. If the students fail to handover their assignments on time and fail to bring sufficient reason fo their tardiness, assignments should be declined.
5	Cheating: - Cheating is a bad behavior and the university takes a serious view of it. - If student is suspected of cheating, the university has full right to take any disciplinary action against the student such as suspension or expulsion. - Student who cheats in the exam is liable to be expelled from three courses for cheating. If student cheats more than once, he is liable to be expelled from the university.
6	Forgery and Impersonation: Plagiarism is an unlawful act and the offender should be penalized depending on the situation of plagiarism.
7	Other policies: -Students have to show tolerance of dissent and flexibility during discussions and teamworkThey should be committed to the principles of good argument constructive dialogue with othersUsing mobiles is not permitted in the classroom and example of the concerned authority to take the deserved punishment sainst him.





Faculty of Dentistry

Department of Oral Surgery

Doctor of Dental Surgery

Course Plan (Syllabus) of General Pathology

Course No. (-----)

I. Information about l	Faculty Member Res	spons	ible	for	the	Coui	rse:
Name of Faculty Member: Dr. Amin Okbah Office Hours							
Location& Telephone No.:							
E-mail:		SAT	SUN	MON	TUE	WED	THU







	I. Course Identification and Gen	eral Ir	nformat	ion:	
1	Course Title:	General	Pathology		
2	Course Code & Number:				
	Credit Hours:3	Credit Theory Hours			Lab.
3		Hours	Lecture	Exercise	Hour
		3	2		2
4	Study level/ semester at which this course is offered:	2nd Level / 2nd Semester			
5	Pre –requisite (if any):	Anatomy, Physiology, Histology			
6	Co -requisite (if any):	None			
7	Program (s) in which the course is offered:	Doctor of Dental Surgery			
8	Language of teaching the course:	English			
9	Study System	Semester based System			
10	Mode of delivery:	Full Time			

III. Course Description:

Prepared By:

Location of teaching the course:

Pathology is defined as the study of disease. The aim of the course is to provide the students with a basic education about the general pathology which is concerned about the basic abnormal alterations in the cells and tissues as a result of diseases. To understand the etiology, pathogenesis and structural changes (gross pathology and histopathology) of pathological lesions of different and common diseases. Each lecture lasts 1 hour and is illustrated with macroscopic and microscopic photographs. On the laboratory practical sessions the students can learn the basic macroscopic and microscopic skills and ability to recognize the pathologic lesions and describe them. To help the students to find the lesions on their own slides the learn two demonstrate the slides with the data show and power point slides. The students will have a student of the slides. The topics of the practical study ratch.

Faculty of Dentistry

Dr. Amin Okbah

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	IV. Course Intended Learning Outcomes (CILOs): Upon successful completion of the Course, student will be able to:
	A. Knowledge and Understanding:
a1	Understand the basic mechanisms of tissue (aetiology and pathogenesis) and body react course and outcomes) to injury
a2	Understand the normal and altered morphology (gross & microscopy) of different organ systems of the human body
	B. Intellectual Skills:
b1	Recognize the difference between neoplastic and non-neoplastic lesions based on morphological and clinical characteristic features
b2	Able to solve pathological problems
	C. Professional and Practical Skills:
c1	Diagnose and fully describe the pathologic picture of a disease based on morphology, clinical and laboratory investigations
c2	Differentiate between benign and malignant tumors by their morphology
	D. Transferable Skills:
d1	Make computer search and use the library to search for information
d2	Work effectively as an individual and as a member of a team

A.	A. Theoretical Aspect:						
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours			
1	Cellular adaptations of growth and differentiation Intracellular accumulations Reversible and irreversible cell Injury		3 weeks	6			
		Cell Death: Necrosis and apoptosis Acute Inflammation					
2	Inflammation	Chronic Inflammation	2 weeks	4			
3	Tissue repair	Regeneration and Repair	1 week	2			





V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contac Hours
4	Diseases of the Immune System	Hypersensitivity reactions, Autoimmunity and autoimmune diseases	1 week	2
5	Midterm Exam	All the above	1 week	2
6	Infectious Diseases	Toxaemia, bacteraemia, septicemia, pyaemia Viral Infections Tuberculosis, Schistosomiasis		2
7	Hemodynamic Disorders	Congestion, edema, hemorrhage thrombosis, embolism, infarct, shock and DIC		6
8	Neoplasia	Carcinogenesis, Characteristics of Neoplasms, Benign tumors Malignant tumors Aetiology of tumor	3 weeks	6
9	Final Exam	All the above	1 week	2
	Number of We	eeks /and Units Per Semester	16	32

No.	Tasks/ Experiments	Week Due	Contact Hours
1	Non neoplastic growth (hyperplasia, hypertrophy, metaplasia and dysplasia), cell degeneration, intracellular accumulation and necrosis	1, 2, 3	6
2	Acute and chronic inflammatory cells, and granulomas	4, 5, 6	6
3	granulation tissue, fibrosis	7	2
4	Review all the above	8	2





No.	Tasks/ Experiments	Week Due	Contact Hours
5	Infectious Diseases	9	2
6	Congestion, thrombus, infarction	10, 11	4
7	Benign and malignant tumor cells in different organs, lymph node and distant sites involvement, tumor emboli	12, 13	4
8	Review	14	4
9	Final exam	15	2
	Number of Weeks /and Units Per Semester	15	30

VI. Teaching Strategies of the Course:

- Lectures
- Discussion
- Seminars
- Presentation
- Lab Experiments
- Self-Learning
- Case Study
- Brain storm

VII. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Research
- Homework
- Group work







VIII. Assignments:					
No.	Assignments	Week Due	Mark		
1	Presentation Research topic based	7,14	5		
	Total		5		

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Participation and attendance	Weekly	5	5%
2	Assignments	7,14	5	5%
3	Quizzes 1 & 2	6,12	10	10%
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5	Practical Exam	5	20	20%
6	Final Exam	16	40	40%
	Total		100	100%

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- 4- https://www.med.illinois.edu/m2/pathology/pathatlasf/titlepage.html
- 5- https://www.geisingermedicallabs.com/lab/resources.shtml#textbook
 - 6- https://thepathologist.com/subspecialties/histology

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	exam, he should be given another chance to take the exam of total marks.
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	If student cheats more than once, he is light ed from the university.





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7	Other policies: -Students have to show tolerance of dissent and flexibility during discussions and teamworkThey should be committed to the principles of good argument and constructive dialogue with othersUsing mobiles is not permitted in the classroom and exam hallIf student does acts of academic or non-academic misconduct, he will be referred to the concerned authority to take the deserved punishment against him.



