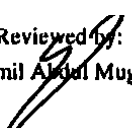
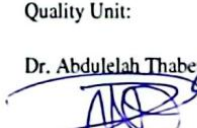
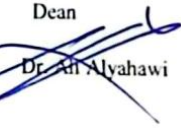
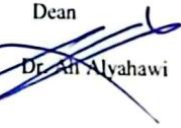


Republic of Yemen
Ministry of Higher Education & Scientific Research
21 SEPTEMBER UNIVERSITY for MEDICALS and APPLIED
SCIENCES



Faculty of Clinical Pharmacy
Course Specification of **General Pathology**
Course No. (01.01. 305)

2022

Prepared by:  Prof. Salim A. Riyashi	Reviewed by:  Dr. Gamil Abdul Mughni	Head of the Department:  Dr. Abdulrahman Thabet	Quality Unit:  Dr. Ali Alyahawi	Dean: 
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I. Course Identification and General Information:				
1	Course Title:	General Pathology		
2	Course Code & Number:	01.01.205		
3	Credit Hours:	Theory Hours		
		Lecture	Exercise	Practical
		2	0	2
4	Study Level/ Semester at which this Course is offered:	3 rd Level / 2 nd Semester		
5	Pre –Requisite (if any):	Histology		
6	Co –Requisite (if any):	None		
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.		
8	Language of Teaching the Course:	English		
9	Study System:	semester		
10	Mode of Delivery:	Regular		
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy		
12	Prepared by:	Dr. Aref Saleh Mohammed Abdulmughni		
13	Date of Approval:	2022		

II. Course Description:

The course covers stud the A etiology , Mechanism of cell injury; Disturbances of circulation, growth and metabolism; Degenerations, necrosis and gangrene; Inflammation, healing and repair; Hypersensitivity reactions; Neoplasia.

Prepared by: Prof. Salim Al-Riyashi	Reviewed by: Dr Gamil Abdul Mughni	Head of the Department: 	Quality Unit: Dr. Abdulalah Thabet	Dean: Dr. Ali Alyahawi
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III. Alignment Course Intended Learning Outcomes with program outcomes

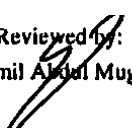
III. Course Intended Learning Outcomes (CILOs)		Reference d PILOs
A. Knowledge and Understanding: <i>Upon successful completion of the course, students will be able to:</i>		
a1	List different disease processes encountered their causes (etiology), and how the disease develops in response to the etiological agents (pathogenesis).	A1
a2	Discuss characteristic gross and microscopic pictures of different pathologic lesions within specific organ system and the associated functional disturbances.	
a3	Describe the morphologic changes of the diseases in the form of gross and microscopic pictures.	A1
B. Intellectual Skills: <i>Upon successful completion of the course, students will be able to:</i>		
b1	Explain inflammatory and neoplastic process in terms of the micro anatomical and cellular changes involved.	B1
b2	Interpret pathological changes of systemic diseases by using appropriate diagnostic methods.	
b3	Analyze various gross and microscopic pathologic data resulting from the disease process.	
C. Professional and Practical Skills: <i>Upon successful completion of the course, students will be able to:</i>		
c1	Complete tasks in due time and communicate effectively with colleagues.	C1
D. Transferable Skills: <i>Upon successful completion of the course, students will be able to:</i>		
d1	Demonstrate skills in documenting and recording relevant information, findings, decisions, recommendations, and other information accurately and concisely.	D1

IV. Alignment Course Intended Learning Outcomes with Teaching Strategies and Assessment methods :

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

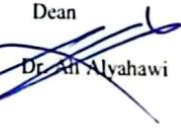
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1	List different disease processes encountered their causes (etiology), and how the disease develops in response to the etiological agents (pathogenesis).	Lecture	Exam
a2	Discuss characteristic gross and microscopic pictures of different pathologic lesions within specific organ system	Lecture	Exam

Prepared by: 
Prof. Salim Al-Riyashi

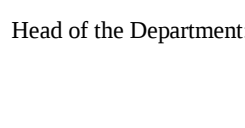
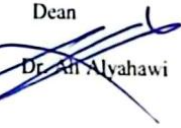
Reviewed by: 
Dr. Gamil Abdul Mughni

Head of the Department: _____

Quality Unit: 
Dr. Abdulalah Thabet

Dean: 
Dr. Ali Alyahawi

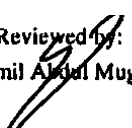
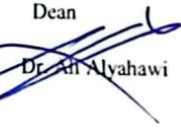
	and the associated functional disturbances.		
a3	Describe the morphologic changes of the diseases in the form of gross and microscopic pictures.	Lecture	Exam
(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1	Explain inflammatory and neoplastic process in terms of the micro anatomical and cellular changes involved.	Lecture	Exam
b2	Interpret pathological changes of systemic diseases by using appropriate diagnostic methods.	Lecture	Exam
b3	Analyze various gross and microscopic pathologic data resulting from the disease process.	Lecture	Exam
C Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1	Complete tasks in due time and communicate effectively with colleagues.	Lecture	Exam
(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1	Demonstrate skills in documenting and recording relevant information, findings, decisions, recommendations, and other information accurately and concisely.	Lecture	seminars

Prepared by:  Prof. Salim Al-Riyashi	Reviewed by:  Dr. Gamil Abdul Mughni	Head of the Department: 	Quality Unit:  Dr. Abdulrahman Thabet	Dean:  Dr. Ali Alyahawi
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III. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Subtopics List	Number of Weeks	contact hours	Learning Outcomes (CILOs)
1	Introduction of General Pathology : -General Pathology -Pathogenesis -Etiology - Clinical significance of diseases: Signs&Symptoms -Morphologic changes - Fate of diseases (Complication &Prognosis)	Definitions Structure	1	2	b1,c1,a1
2	Inflammation: -Acute inflammation -Chronic inflammation (granulomas)	- Definitions - Shape - Arrangements - Diagnosis Differential diagnosis	1	2	a1, b1
3	Healing and Repair: -Types of healing -Mechanism of healing by fibrosis and Granulation tissue -Types of wound Healing -Complication of wound healing	pathogenecity - Diagnosis. Interpretation	2	4	a1, a3, b3
4	Cell injury (reversible and irreversible): -Adaptation -Degeneration - Necrosis and Apoptosis	- Definitions - Shape - Arrangements	1	2	a1, b3, c1
5	- Circulatory Disturbance: -Hyperemia, Congestion and ischemia -Thrombosis & Embolism - Hemorrhage & Edema		1	2	a1, a2, b1, d1
6	Neoplasia (benign and malignant tumors): -Benign tumors - Malignant tumors		1	2	b1,a1,b2
7	Med term exam		1	2	a1, b1
8	Diseases of female reproductive system		2	4	a1, b2, b3

Prepared by:  Prof. Salim Al-Riyashi	Reviewed by:  Dr Gamil Abdul Mughni	Head of the Department:	Quality Unit: Dr. Abdulelah Thabet 	Dean  Dr. Ali Alyahawi
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9	Diseases of the breast		1	2	a1, b2, a2
10	Diseases of urinary tract		2	4	a2, a3, b3
11	Diseases of gastrointestinal tract		1	2	a1, a2, b1
12	Diseases of respiratory tract		1	2	a2, b1, b3, c1
13	Final exam		1	2	a1, a2, a3, b1-3
	Number of Weeks /and Units Per Semester		13	26	

V. Teaching Strategies of the Course:

1-	Lectures
2-	Self leaning

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1		2.5	All CILOs
2	Assignment 2:		2.5	All CILOs
Total				5

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	6th, 12th	5	5%	All CILOs
2	Practical Reports	2 nd -13 th	5	5%	c1, d1
3	Midterm Exam (Theory)	Week 7	15	20%	a1, a2, b1, b2,
	Midterm Exam (Practical)	Week 7	10	10%	c1, d1
4	Final Practical Exam	14 th	15	15%	c1, d1
5	Final Exam (Theory)	Week 16	50	50%	a1, a2, b1, b2,
Total			100	100%	

VII. Learning Resources:

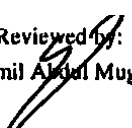
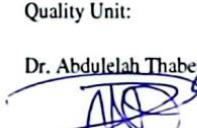
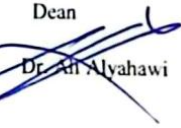
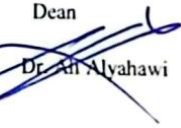
1- Required Textbook(s) (maximum two).

1-	Course notes : Hand outs of lectures (either soft or hard copies)
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Prepared by: Prof. Salim Al-Riyashi	Reviewed by: Dr Gamil Abdul Mughni	Head of the Department:	Quality Unit: Dr. Abdulalah Thabet	Dean: Dr. Ali Alyahawi
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2-	Text book -General Anatomy -Practical General Log Book
2- Essential References.	
1-	Kumar, Cortan and Robbins basic General Pathology (2010).
2-	Roitt's Essential Immunology
3- Electronic Materials and Web Sites etc.	
1-	Websites, Search engines (PubMed, Google Scholar) 1- E-Learning: Video tapes (audio-visual) 2- www.WHO.com
2-	Journals, Scientific Magazines and Articles. § General Pathology Journal – Elsevier § The American Journal of General Pathology § General Pathology Journal Online Journal in General Pathology – MDLinx § Diagnostic General Pathology Journal

X. Course Policies: (Based on the Uniform Students' By law	
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all

Prepared by:  Prof. Salim Al-Riyashi	Reviewed by:  Dr. Gamil Abdul Mughni	Head of the Department:  Dr. Abdulrahman Thabet	Quality Unit:  Dr. Ali Alyahawi	Dean: 
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rules and regulations of the examination set by the Department, Faculty and University Administration.

Prepared by:

Prof. Salim A. Riyashi

Reviewed by:

Dr Gamil Abdul Mughni

Head of the Department:

Quality Unit:

Dr. Abdulalah Thabet

Dean

Dr. Ali Alyahawi

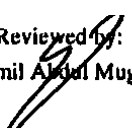
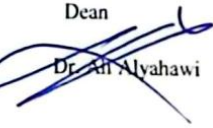
Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Plan (Syllabus) of **General Pathology** Course Code. (01.01.205)

I. Information about Faculty Member Responsible for the Course:									
Name of Faculty Member:	Dr. Aref Saleh Mohammed Abdulmughni			Office Hours					
Location& Telephone No.:									
E-mail:				SAT	SUN	MON	TUE	WED	THU

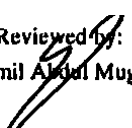
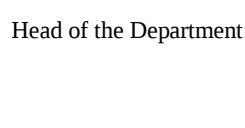
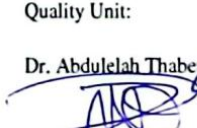
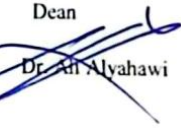
2022- 2023

Prepared by:  Prof. Salim Al-Riyashi	Reviewed by:  Dr. Gamil Abdul Mughni	Head of the Department:	Quality Unit: Dr. Abdulalah Thabet 	Dean:  Dr. Ali Alyahawi
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I. Course Identification and General Information:				
1	Course Title:	General Pathology		
2	Course Code & Number:	01.01.205		
3	Credit Hours:	Theory Hours		
		Lecture	Exercise	Practical
		2	0	2
4	Study Level/ Semester at which this Course is offered:	3 rd Level / 2 nd Semester		
5	Pre –Requisite (if any):	Histology		
6	Co –Requisite (if any):	None		
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.		
8	Language of Teaching the Course:	English		
9	Study System:	semester		
10	Mode of Delivery:	Regular		
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy		
12	Prepared by:	Dr. Aref Saleh Mohammed Abdulmughni		
13	Date of Approval:	2022		

II. Course Description:

The course covers stud the A etiology , Mechanism of cell injury; Disturbances of circulation, growth and metabolism; Degenerations, necrosis and gangrene; Inflammation, healing and repair; Hypersensitivity reactions; Neoplasia.

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III. Alignment Course Intended Learning Outcomes with program outcomes

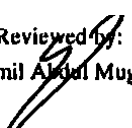
III. Course Intended Learning Outcomes (CILOs)		Reference d PILOs
A. Knowledge and Understanding: <i>Upon successful completion of the course, students will be able to:</i>		
a1	List different disease processes encountered their causes (etiology), and how the disease develops in response to the etiological agents (pathogenesis).	A1
a2	Discuss characteristic gross and microscopic pictures of different pathologic lesions within specific organ system and the associated functional disturbances.	
a3	Describe the morphologic changes of the diseases in the form of gross and microscopic pictures.	A1
B. Intellectual Skills: <i>Upon successful completion of the course, students will be able to:</i>		
b1	Explain inflammatory and neoplastic process in terms of the micro anatomical and cellular changes involved.	B1
b2	Interpret pathological changes of systemic diseases by using appropriate diagnostic methods.	
b3	Analyze various gross and microscopic pathologic data resulting from the disease process.	
C. Professional and Practical Skills: <i>Upon successful completion of the course, students will be able to:</i>		
c1	Complete tasks in due time and communicate effectively with colleagues.	C1
D. Transferable Skills: <i>Upon successful completion of the course, students will be able to:</i>		
d1	Demonstrate skills in documenting and recording relevant information, findings, decisions, recommendations, and other information accurately and concisely.	D1

IV. Alignment Course Intended Learning Outcomes with Teaching Strategies and Assessment methods :

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

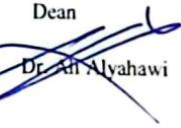
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1	List different disease processes encountered their causes (etiology), and how the disease develops in response to the etiological agents (pathogenesis).	Lecture	Exam
a2	Discuss characteristic gross and microscopic pictures of different pathologic lesions within specific organ system	Lecture	Exam

Prepared by: 
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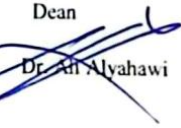
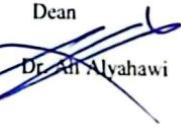
Reviewed by: 
Dr. Gamil Abdul Mughni

Head of the Department: _____

Quality Unit: 
Dr. Abdulrahman Thabet

Dean: 
Dr. Ali Alyahawi

	and the associated functional disturbances.		
a3	Describe the morphologic changes of the diseases in the form of gross and microscopic pictures.	Lecture	Exam
(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1	Explain inflammatory and neoplastic process in terms of the micro anatomical and cellular changes involved.	Lecture	Exam
b2	Interpret pathological changes of systemic diseases by using appropriate diagnostic methods.	Lecture	Exam
b3	Analyze various gross and microscopic pathologic data resulting from the disease process.	Lecture	Exam
C Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1	Complete tasks in due time and communicate effectively with colleagues.	Lecture	Exam
(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1	Demonstrate skills in documenting and recording relevant information, findings, decisions, recommendations, and other information accurately and concisely.	Lecture	seminars

Prepared by:  Prof. Salim Al-Riyashi	Reviewed by:  Dr. Gamil Abdul Mughni	Head of the Department:  Dr. Abdulrahman Thabet	Quality Unit:  Dr. Ali Alyahawi	Dean: 
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III. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Subtopics List	Number of Weeks	contact hours
1	Introduction of General Pathology : -General Pathology -Pathogenesis -Etiology - Clinical significance of diseases: Signs&Symptoms -Morphologic changes - Fate of diseases (Complication &Prognosis)	Definitions Structure	1	2
2	Inflammation: -Acute inflammation -Chronic inflammation (granulomas)	- Definitions - Shape - Arrangements - Diagnosis Differential diagnosis	1	2
3	Healing and Repair: -Types of healing -Mechanism of healing by fibrosis and Granulation tissue -Types of wound Healing -Complication of wound healing	pathogenecity - Diagnosis. Interpretation	2	4
4	Cell injury (reversible and irreversible): -Adaptation -Degeneration - Necrosis and Apoptosis	- Definitions - Shape - Arrangements	1	2
5	- Circulatory Disturbance: -Hyperemia, Congestion and ischemia -Thrombosis & Embolism - Hemorrhage & Edema		1	2
6	Neoplasia (benign and malignant tumors): -Benign tumors - Malignant tumors		1	2
7	Med term exam		1	2
8	Diseases of female reproductive system		2	4
9	Diseases of the breast		1	2
10	Diseases of urinary tract		2	4
11	Diseases of gastrointestinal tract		1	2
12	Diseases of respiratory tract		1	2
13	Final exam		1	2
	Number of Weeks /and Units Per Semester		13	26

Prepared by: Prof. Salim Al-Riyashi	Reviewed by: Dr Gamil Abdul Mughni	Head of the Department: 	Quality Unit: Dr. Abdulrahman Thabet	Dean: Dr. Ali Alyahawi
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V. Teaching Strategies of the Course:

1-	Lectures
2-	Self leaning

No.	Assignments	Week Due	Mark
1	Assignment 1		2.5
2	Assignment 2:		2.5
Total			5

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	6th, 12 th	5	5%
2	Practical Reports	2 nd -13 th	5	5%
3	Midterm Exam (Theory)	Week 7	15	20%
	Midterm Exam (Practical)	Week 7	10	10%
4	Final Practical Exam	14 th	15	15%
5	Final Exam (Theory)	Week 16	50	50%
Total			100	100%

VII. Learning Resources:

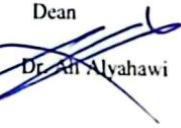
1- Required Textbook(s) (maximum two).

1-	Course notes : Hand outs of lectures (either soft or hard copies)
2-	Text book -General Anatomy -Practical General Log Book

2- Essential References.

1-	Kumar, Cortan and Robbins basic General Pathology (2010).
2-	Roitt's Essential Immunology

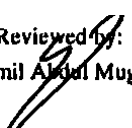
3- Electronic Materials and Web Sites etc.

Prepared by:  Prof. Salim Al-Riyashi	Reviewed by:  Dr Gamil Abdul Mughni	Head of the Department:	Quality Unit:  Dr. Abdulrahman Thabet	Dean:  Dr. Ali Alyahawi
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1-	Websites, Search engines (PubMed, Google Scholar) 1- E-Learning: Video tapes (audio-visual) 2- www.WHO.com
2-	Journals, Scientific Magazines and Articles. § General Pathology Journal – Elsevier § The American Journal of General Pathology § General Pathology Journal Online Journal in General Pathology – MDLinx § Diagnostic General Pathology Journal

X. Course Policies: (Based on the Uniform Students' By law

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

Prepared by:  Prof. Salim Al-Riyashi	Reviewed by:  Dr. Gamil Abdul Mughni	Head of the Department:	Quality Unit: Dr. Abdulrah Thabet	Dean: Dr. Ali Alyahawi
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