

## Department: Dental basic sciences

Title of the Program: *Bachelor of Dental Surgery BDS*

### Course Specification of General Pathology

I. Course Identification and General Information:					
1	Course Title:	General Pathology			
2	Course Code & Number:	DBGP2101			
3	Credit hours:	C.H			
		Lecture	Seminar/Tutorial	Practical	Training
		2		2	
4	Study level/ semester at which this course is offered:	2 <sup>nd</sup> level – 1 <sup>st</sup> Semester			
5	Pre –requisite (if any):	Biology, Anatomy, Physiology, Histology			
6	Co –requisite (if any):	None			
7	Program (s) in which the course is offered:	Bachelor of Dental Surgery BDS			
8	Teaching Language:	English/Arabic			
9	Study System:	Semester based System			
10	Prepared by:	Dr. Amin Okbah			
11	Approval date:	2023/2024			
12	Approved by:	Prof. Hasan Al-Shamahy & Dr. Muneer Al-azzani			

## II. Course Description:

The aim of the course is to provide the students with abnormalities that occur in normal anatomy, histology and physiology as a reaction to different stimuli, to help the students to be able to:

- Recognize the abnormal change of different cells and tissues of the body and related functional change
- Differentiate between various pathological lesions by their morphology.
- Recognize neoplastic and non-neoplastic lesions based on macroscopic and microscopic features and clinical characteristic features.
- Develop communication skills with patients and their family to exchange information effectively.

The course covers the general pathology of cell injury, inflammation and neoplasms. This course focuses on pathological picture of various pathological lesions and ability of the students to recognized these changes by naked eye (Macroscopic) and histological (Microscopic) study.



### III. Course Intended learning outcomes (CILOs) of the course DBGP2101

### Referenced PILOs

DBGP2101

#### Knowledge and Understanding

By the end of this course, the student will be able to:

a.1	Understand the basic mechanisms of tissue (aetiology and pathogenesis) and body reactions (course and outcomes) to injury	<b>A1</b> Discuss the scientific basis of dentistry and the relevant biomedical and behavioral sciences which form the basis for understanding human growth, development and health.
a.2	Understand the normal and altered morphology (gross & microscopy) of different organ systems of the human body	<b>A2</b> Describe the structure and function of the human body in health and disease related to the practice of dentistry.

#### Intellectual Skills:

By the end of this course, the student will be able to

b.1	Recognize the difference between neoplastic and non-neoplastic lesions based on morphological and clinical characteristic features	<b>B1</b> Incorporate theoretical basic biomedical, behavioural and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.
b.2	Able to solve pathological problems	<b>B2</b> Apply critical thinking and evidence-based problem solving when providing patient's care.

#### Professional and Practical Skills

By the end of this course, the student will be able to

c.1	Diagnose and fully describe the pathologic picture of a disease based on morphology, clinical data and laboratory investigations	<b>C1</b> Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out required investigations required to reach a proper diagnosis and treatment plan

#### Transferable (General) Skills:

By the end of this course, the student will be able to

d.1.	Make computer search and use the library to search for information	<b>D1</b> Efficiently use advanced technologies for self-development to remain updated with advancements in the dental practice.
d.2	Work effectively as an individual and as a member of a team	<b>D2</b> Demonstrate leadership and teamwork skills with colleagues and other oral health care workers for effective delivery of oral health care.

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

Prepared by Prof. Amin Ogbah	Head of Department Prof. Hassan Al- Shamahy	Vice Dean for Quality Assurance Affairs Dr. Muneer Al-Azzani	Dean of the Faculty Dr Ramy A Ishaq	Academic Development Center & Quality Assurance Ass. Prof. Huda Al-Emad	Rector of Sana'a University Dr. Al-Qassim Mohammed Abbas
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### and Assessment Strategies:

Course Intended Learning Outcomes		Teaching strategies	Assessment Strategies
a.1	Understand the basic mechanisms of tissue (aetiology and pathogenesis) and body reactions (course and outcomes) to injury	<ul style="list-style-type: none"> <li>- Active and interactive lectures</li> <li>- Presentation</li> <li>- Seminars</li> <li>- Discussion</li> <li>- Office Hours</li> <li>- Self learning</li> <li>- White board</li> <li>- Markers</li> </ul>	<ul style="list-style-type: none"> <li>- Written and oral Quiz by the end of the lecture</li> <li>- Research</li> <li>- Homework</li> <li>- Mid-term and final written exam including essay and single answer MCQs</li> <li>-Final Oral Exam</li> </ul>
a.2	Understand the normal and altered morphology (gross & microscopy) of different organ systems of the human body		

### (B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes		Teaching strategies	Assessment Strategies
b.1	Recognize the difference between neoplastic and non-neoplastic lesions based on morphological and clinical characteristic features	<ul style="list-style-type: none"> <li>- Active and interactive lectures</li> <li>- Presentation</li> <li>- Case Study</li> <li>- Problem solving</li> <li>- Brain storm</li> <li>- Discussion</li> </ul>	<ul style="list-style-type: none"> <li>- Evaluation of assignment and presentations</li> <li>- Written and oral Quiz by the end of the lecture and practical work</li> <li>- Mid-term and final written exam including essay and single answer MCQs</li> <li>-Final Oral Exam</li> <li>- Mid-term and final practical exam including gross and histological slides</li> </ul>
b.2	Able to solve pathological problems		

### (C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Prepared by Prof. Amin Ogbah	Head of Department Prof. Hassan Al-Shamahy	Vice Dean for Quality Assurance Affairs Dr. Muneer Al-Azzani	Dean of the Faculty Dr Ramy A Ishaq	Academic Development Center & Quality Assurance Ass. Prof. Huda Al-Emad	Rector of Sana'a University Dr. Al-Qassim Mohammed Abbas
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Course Intended Learning Outcomes		Teaching strategies	Assessment Strategies
<b>c.1</b>	Diagnose and fully describe the pathologic picture of a disease based on morphology, clinical data and laboratory investigations	<ul style="list-style-type: none"> <li>- Active and interactive lectures</li> <li>- Presentation</li> <li>- Laboratory sessions</li> <li>- Case Study</li> <li>- Problem solving</li> <li>- Discussion</li> <li>- Brain storm</li> <li>- Training</li> </ul>	<ul style="list-style-type: none"> <li>- Written and oral Quiz</li> <li>- Oral discussion</li> <li>- Mid-term and final practical exam including gross and histological slides</li> </ul>

<b>(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:</b>			
Course Intended Learning Outcomes		Teaching strategies	Assessment Strategies
<b>d.1</b>	Make computer search and use the library to search for information	<ul style="list-style-type: none"> <li>- Case study</li> <li>- Discussion</li> <li>- Simulation</li> </ul>	<ul style="list-style-type: none"> <li>- Quizzes</li> <li>- Self and independent learning</li> <li>- Solve the cases studies</li> <li>- Individual and collective discussion</li> </ul>
<b>d.2</b>	Work effectively as an individual and as a member of a team	<ul style="list-style-type: none"> <li>- Active and interactive lectures</li> <li>- Presentation</li> <li>- Seminars</li> <li>- Research,</li> <li>- Discussion</li> <li>- Case Study</li> <li>- Self Learning</li> <li>- Simulation</li> </ul>	<ul style="list-style-type: none"> <li>- Quizzes</li> <li>- Discussion</li> <li>- Teamwork</li> <li>- Research</li> <li>- Homework</li> <li>- Mid-term and final written exam including essay and single answer MCQs</li> <li>- Final Oral Exam</li> </ul>

<b>I. Course Content:</b>					
<b>A – Theoretical Aspect:</b>					
Order	Units/Topics	Sub Topics List	Number	contact hours	Learning Outcomes
Prepared by Prof. Amin Ogbah	Head of Department Prof. Hassan Al-Shamahy	Vice Dean for Quality Assurance Affairs Dr. Muneer Al-Azzani	Dean of the Faculty Dr Ramy A Ishaq	Academic Development Center & Quality Assurance Ass. Prof. Huda Al-Emad	Rector of Sana'a University Dr. Al-Qassim Mohammed Abbas



	List		of Weeks		
1	<b>Introduction</b> <b>Cell injury</b>	Cellular adaptations of growth and differentiation Intracellular accumulations Reversible and irreversible cell Injury Cell Death: Necrosis and apoptosis	2 weeks	4	a1, a2, b1, b2, c1, d1, d2
2	<b>Inflammation</b>	Acute Inflammation Chronic Inflammation	3 weeks	6	a1, a2, b1, b2, c1, d1, d2
3	<b>Tissue repair</b>	Regeneration and Repair	2 week	4	a1, a2, b1, b2, c1, d1, d2
4	<b>Mid-Term Theoretical Exam</b>	All the above	1 week	2	a1, a2, b1, b2
5	<b>Infectious Diseases</b>	Toxaemia, bacteraemia, septicemia, pyaemia Tuberculosis, Schistosomiasis	2 week	4	a1, a2, b1, b2, c1, d1, d2
6	<b>Hemodynamic Disorders</b>	Congestion, oedema, haemorrhage thrombosis, embolism, infarct, shock and DIC	2 weeks	4	a1, a2, b1, b2, c1, d1, d2
7	<b>Neoplasia</b>	Carcinogenesis, Characteristics of Neoplasms, Benign tumors Malignant tumors Aetiology of tumor	3 weeks	6	a1, a2, b1, b2, c1, d1, d2
8	<b>Final Theoretical Exam</b>	All the above	1 week	2	a1, a2, b1, b2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

## B - Practical Aspect:

Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	<b>Non neoplastic growth ( hyperplasia, hypertrophy, metaplasia and dysplasia), cell degeneration, intracellular accumulation and</b>	2 weeks	4	b1, b2, c1, d1, d2





	<b>necrosis</b>			
<b>2</b>	<b>Acute and chronic inflammatory cells, and granulomas,</b>	<b>3 weeks</b>	<b>6</b>	b1, b2, c1, d1, d2
<b>3</b>	<b>Granulation tissue, fibrosis</b>	<b>1 week</b>	<b>2</b>	b1, b2, c1, d1, d2
<b>5</b>	<b>Mid-Term Exam</b>	<b>1 week</b>	<b>2</b>	b1, b2, c1,
<b>6</b>	<b>Infectious Diseases</b>	<b>2 week</b>	<b>4</b>	b1, b2, c1, d1, d2
<b>7</b>	<b>Congestion, thrombus, infarction</b>	<b>1 week</b>	<b>2</b>	b1, b2, c1, d1, d2
<b>8</b>	<b>Benign and malignant tumor cells in different organs, lymph node and distant sites involvement, tumor emboli</b>	<b>3 weeks</b>	<b>6</b>	b1, b2, c1, d1, d2
<b>9</b>	<b>Final exam</b>	<b>1 week</b>	<b>2</b>	b1, b2, c1,
<b>Number of Weeks /and Units Per Semester</b>		<b>14</b>	<b>28</b>	

## I. Teaching strategies of the course:

- Lectures
- Presentation: Data show, Power point slides, Gross pathology photography, Histopathology images
- Laboratory sessions (Gross specimens and microscopic histological slides, Microscopes, Gross pathology photographs and histological images)
- Case Study
- Brain storm
- Discussion



- Seminars
- Faculty library
- Office Hours
- Self learning
- White board
- Markers

## II. Assignments:

No.	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Participation and attendance Short reports Practical reports	a1, a2, b1, b2, c1, d1, d2	Weekly	5
2	Group Discussion	b1, b2, d1, d2	Weekly	5

## III. Learning Assessment

No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment	Aligned CILOs
1	Assignments	Weekly, week 6,12	15	15%	a1, a2, b1, b2, c1, d1, d2
2	Quizzes	Week 5,10	5	5%	a1, a2, b1, b2, c1
3	Mid-Term Theoretical Exam	Week 7	10	10%	a1, a2, b1, b2
4	Mid-Term Practical Exam	Week 7	10	10%	b1, b2, c1
5	Final Practical Exam	Week 14	20	20%	b1, b2, c1
6	Final Theoretical Exam	Week 16	40	40%	a1, a2, b1, b2
Total			100	100%	
3	Presentation on----- Research topic based on---	d1, d2	Week 6,12	5	
Total					15

## I. Learning Resources:

- Written in the following order: ( Author - Year of publication – Title – Edition – Place of publication – Publisher).

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

- 1- Vinay Kumar, Abul K Abbas, and Jon C Aster, 2020, Robbins and Cotran Pathologic Basis of Disease, 10th Edition, Printed in Canada, Elsevier Saunders.
- 2- Husain A. Sattar, 2018, Fundamentals of Pathology, 8<sup>th</sup> Edition, Printed in USA, Pathoma LLC
- 3- Henry Sanchez, John Barone, 2013, Kaplan USMLE Step 1 Pathology Lecture Notes, Kaplan Edition, Printed in USA, Kaplan Medical.
- 4- Rubin, Strayer, and Rubin, 2011, Clinicopathologic Foundations of Medicine, 6th edition, Printed in the USA, Lippincott Williams and Wilkins.
- 5- Harsh Mohan, 2010, Textbook of Pathology, 5th Edition, Printed in India, Jaypee Brothers Medical Publishers.
- 6- Dr. Amin Okbah, 2021, General Pathology, 3<sup>rd</sup> Edition, Sana'a University.

### 2- Essential References.

- 1- Emanuel Rubin, Howard M. Reisner, 2014, Essentials of Rubin's Pathology, 6th Edition, Printed in the US Lippincott Williams, Lippincott Williams and Wilkins, USA,
- 2- Liang Cheng and David G. Bostwick, 2011, Essentials of anatomic pathology, 3rd Edition, Printed in the USA, Humana Press, Totowa, NJ.
- 3- Rubin, Emanuel; Reisner, Howard M, 2009, Essentials of Rubin's Pathology, 5th Edition, Lippincott Williams, Lippincott Williams and Wilkins, USA, 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/pathology/pathatlasf/titlepage.html>
- 5- <https://www.geisingermedicallabs.com/lab/resources.shtml#textbook>
- 6- <https://thepathologist.com/subspecialties/histology>

## IV. Course Policies:

### (Class Attendance)

1

Attendance of students is taken at beginning of lecture time. - The allowed absence percentage is 20% without excuse and 30% with acceptable excuse, - When student has been absent for more than 30% of course lectures without acceptable excuse, the student will be prohibited from entering subject the final exam.





2	<p><b>(Tardy)</b></p> <p>If the student came late to class for 15 minutes, he/she is registered absent but he/she allowed to enter the hall to listen lecture presentation.</p>
3	<p><b>(Exam Attendance/Punctuality):</b></p> <p>According to examination roles or policies: - If the student is absent in the year works exams, the decision is referred to the teacher whether to allow or to reject according to the offered excuse. - If the student is absent in the final exam with an acceptable excuse, the student would be attended the re-sit exam as 1st trial. - If the student is absent in the final exam without an acceptable excuse, the student would be attended re-sit exam as 2nd trial.</p>
4	<p><b>(Assignments &amp; Projects):</b></p> <p>According to examination roles or policies: - The student should be attended the final exam at certain time and according to the accredited exam table. - If the student came late after 15 minutes from the exam beginning, the student would be to attend the exam with oral monition of never repeat. - In case of the repeat, the student prevented from entrance and considered absent.</p>
5	<p><b>(Cheating):</b></p> <p>According to examination roles or policies: - If the student cheated in the year works exams of the course, the student prohibited from entrance the final exam and given zero degree with prevented him from entrance the re-sit exam of this course. - If the student cheated in the final exam of the course, the student prohibited from the cheated course and the followed course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheated course is the last at the exam table, the student prohibited from the cheated course and the past course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheating is discovered in subsequent time, the cheated student didn't escape from payment and ordinance is referred to precision committee and the final decision is referred to the collage council. - If the cheating is discovered during the correcting the answered books, the corrector has written a report to the chairman of concerned department for taking available procedure. - The faculty council is able to segregate the student for one academic year in 2nd cheating trial and final segregation from the university after accreditation of university council in 3rd cheating trial.</p>
6	<p><b>(Plagiarism):</b></p> <p>According to examination roles or policies: Plagiarism means a student plagiarizes the personality of another student. Plagiarism for exam purpose: 1- Both students are prohibited from the plagiarized academic year and all results of them are rejected with prohibition of them from entrance the re-sit exam. 2- If the plagiarized student is from outside the university, the student is referred to the university police. -Plagiarism for other purposes: 1- Both students are warned as segregation. 2- If the plagiarized student is from outside the university, the student is referred to the university police.</p>
7	<p><b>(Other policies):</b></p> <p>The student should be followed the instructions for the exam entrance. - The student should be followed all systems &amp; laws of the university.</p>

*Republic of Yemen*

Ministry of Higher Education  
and Scientific Research

Sana'a University

Faculty of Dentistry

Quality Assurance Unit



الجمهورية اليمنية

وزارة التعليم العالي والبحث العلمي

جامعة صنعاء

كلية طب الأسنان

وحدة ضمان الجودة

Prepared by  
Prof. Amin  
Ogbah

Head of Department  
Prof. Hassan Al-  
Shamahy

Vice Dean for Quality  
Assurance Affairs  
Dr. Muneer Al-Azzani

Dean of the  
Faculty  
Dr Ramy A Ishaq

Academic Development  
Center & Quality  
Assurance  
Ass. Prof. Huda Al-Emad

Rector of Sana'a University  
Dr. Al-Qassim Mohammed  
Abbas

## Course Plan of

### I. Information of Faculty Members responsible for the course:

Name of Faculty Member	Dr. Amin A Okbah	Office Hours					
Location & Telephone No.	777785324	SAT	SUN	MON	TUE	WED	THU
E-mail	aminokbah@yahoo.com	3					

### II. Course Identification and General Information:

1-	Course Title:	General Pathology				
2-	Course Number & Code:	DBGP2101				
3-	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		2		2		
4-	Study level/year at which this course is offered:	2 <sup>nd</sup> level – 1 <sup>st</sup> Semester				
5-	Pre –requisite (if any):	Biology, Anatomy, Physiology, Histology				
6-	Co –requisite (if any):	None				
7-	Program (s) in which the course is offered	Bachelor of Dental Surgery BDS				
8-	Language of teaching the course:	English/Arabic				
9-	System of Study:	Semester based System				
10-	Location of teaching the course:	Faculty of Dentistry, Sanaa University (Lectures Hall and laboratory class)				

### III. Course Description:

The aim of the course is to provide the students with abnormalities that occur in normal anatomy, histology and physiology as a reaction to different stimuli, to help the students to be able to:

- Recognize the abnormal change of different cells and tissues of the body and related functional change
- Differentiate between various pathological lesions by their morphology.
- Recognize neoplastic and non-neoplastic lesions based on macroscopic and microscopic features and clinical characteristic features.
- Develop communication skills with patients and their family to exchange information effectively.

The course covers the general pathology of cell injury, inflammation and neoplasms. This course focuses on pathological picture of various pathological lesions and ability of the students to recognized these changes by naked eye (Macroscopic) and histological (Microscopic) study.

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## IV. Intended learning outcomes (ILOs) of the course

After completing this course, students will be able to:

a.1	Understand the basic mechanisms of tissue (aetiology and pathogenesis) and body reactions (course and outcomes) to injury
a.2	Understand the normal and altered morphology (gross & microscopy) of different organ systems of the human body
b.1	Recognize the difference between neoplastic and non-neoplastic lesions based on morphological and clinical characteristic features
b.2	Able to solve pathological problems
c.1	Diagnose and fully describe the pathologic picture of a disease based on morphology, clinical data and laboratory investigations
d.1	Make computer search and use the library to search for information
d.2	Work effectively as an individual and as a member of a team



## I. Course Content:

### A – Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	Week order	contact hours
1	<b>Introduction</b> <b>Cell injury</b>	Cellular adaptations of growth and differentiation Intracellular accumulations Reversible and irreversible cell Injury Cell Death: Necrosis and apoptosis	1 <sup>st</sup> and 2 <sup>nd</sup> week	4
2	<b>Inflammation</b>	Acute Inflammation Chronic Inflammation	3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> week	6
3	<b>Tissue repair</b>	Regeneration and Repair	6 <sup>th</sup> and 7 <sup>th</sup> week	4
4	<b>Mid-Term Theoretical Exam</b>	All the above	8 <sup>th</sup> week	2
5	<b>Infectious Diseases</b>	Toxaemia, bacteraemia, septicemia, pyaemia Tuberculosis, Schistosomiasis	9 <sup>th</sup> and 10 <sup>th</sup> week	4
6	<b>Hemodynamic Disorders</b>	Congestion, edema, hemorrhage thrombosis, embolism, infarct, shock and DIC	11 <sup>th</sup> and 12 <sup>th</sup> weeks	4
7	<b>Neoplasia</b>	Carcinogenesis, Characteristics of Neoplasms, Benign tumors Malignant tumors Aetiology of tumor	13 <sup>th</sup> , 14 <sup>th</sup> and 15 <sup>th</sup> weeks	6
8	<b>Final Theoretical Exam</b>	All the above	16 <sup>th</sup> week	2
<b>Number of Weeks /and Units</b>			<b>32</b>	

### B - Practical Aspect:

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Order	Practical topics	Number of Weeks	contact hours
1	Non neoplastic growth (hyperplasia, hypertrophy, metaplasia and dysplasia), cell degeneration, intracellular accumulation and necrosis	1 <sup>st</sup> , 2 <sup>nd</sup> week	4
2	Acute and chronic inflammatory cells, and granulomas,	3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> week	6
3	Granulation tissue, fibrosis	6 <sup>th</sup> week	2
5	Mid-Term Exam	7 <sup>th</sup> week	2
6	Infectious Diseases	8 <sup>th</sup> , 9 <sup>th</sup> week	4
7	Congestion, thrombus, infarction	10 <sup>th</sup> week	2
8	Benign and malignant tumor cells in different organs, lymph node and distant sites involvement, tumor emboli	11 <sup>th</sup> , 12 <sup>th</sup> , 13 <sup>th</sup> week	6
9	Final exam	14 <sup>th</sup> week	2
Number of Weeks /and Units Per Semester		14	28

## II. Teaching strategies of the course:

### -Lectures

- Presentation: Data show, Power point slides, Gross pathology photography, Histopathology images
- Laboratory sessions (Gross specimens and microscopic histological slides, Microscopes, Gross pathology photographs and histological images)
- Case Study
- Brain storm
- Discussion
- Seminars
- Faculty library
- Office Hours
- Self learning
- White board
- Markers

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### III. Assignments:

No	Assignments	Week Due	Mark	Proportion of Final Assessment
1	Participation and attendance Short reports Practical reports	Weekly	5	5%
2	Group Discussion	Weekly	5	5%
3	Presentation on----- Research topic based on---	Week 6,12	5	5%
Total			15	15%

### IV. Learning Assessment

No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment
1	Assignments	Weekly, week 6,12	15	15%
2	Quizzes	Week 5,10	5	5%
3	Mid-Term Theoretical Exam	Week 8	10	10%
4	Mid-Term Practical Exam	Week 7	10	10%
5	Final Practical Exam	Week 14	20	20%
6	Final Theoretical Exam	Week 16	40	40%
Total			100	100%

### I. Learning Resources:

- Written in the following order: ( Author – Year of publication – Title – Edition – Place of publication – Publisher).

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

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- 2- Husain A. Sattar, 2018, Fundamentals of Pathology, 8<sup>th</sup> Edition, Printed in USA, Pathoma LLC
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- 5- Harsh Mohan, 2010, Textbook of Pathology, 5th Edition, Printed in India, Jaypee Brothers Medical Publishers.
- 6- Dr. Amin Okbah, 2023, General Pathology, 3<sup>rd</sup> Edition, Sana'a University.

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## 2- Essential References.

- 1- Emanuel Rubin, Howard M. Reisner, 2014, Essentials of Rubin's Pathology, 6th Edition, Printed in the Lippincott Williams, Lippincott Williams and Wilkins, USA,
- 2- Liang Cheng and David G. Bostwick, 2011, Essentials of anatomic pathology, 3rd Edition, Printed in the USA, Humana Press, Totowa, NJ.
- 3- Rubin, Emanuel; Reisner, Howard M, 2009, Essentials of Rubin's Pathology, 5th Edition, Lippincott Williams, Lippincott Williams and Wilkins, USA, 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/pathology/pathatlasf/titlepage.html>
- 5- <https://www.geisingermedicallabs.com/lab/resources.shtml#textbook>
- 6- <https://thepathologist.com/subspecialties/histology>

## V. Course Policies:

1	<b>Class Attendance:</b> <ul style="list-style-type: none"> <li>- Attendance of students is taken at beginning of lecture time.</li> <li>- After 15 minutes of lecture time the student is considered absent.</li> <li>- When student has been absent for more than 25% of course contents, the student should be prohibited for entrance the final exam.</li> </ul>
2	<b>Tardy:</b> <ul style="list-style-type: none"> <li>- If the student came late to class for 15 minutes, he/she is registered absent but he/she allowed to enter the hall to listen lecture presentation.</li> </ul>
3	<b>Exam Attendance/Punctuality:</b> <ul style="list-style-type: none"> <li>-According to examination roles or policies:</li> <li>- If the student is absent in the year works exams, the decision is referred to the teacher whether to allow or to reject according to the offered excuse.</li> <li>- If the student is absent in the final exam with an acceptable excuse, the student would be attended the re-sit exam as 1<sup>st</sup> trial.</li> <li>- If the student is absent in the final exam without an acceptable excuse, the student would be attended re-sit exam as 2<sup>nd</sup> trial.</li> </ul>
4	<b>Assignments &amp; Projects:</b> <ul style="list-style-type: none"> <li>-- According to examination roles or policies:</li> <li>- The student should be attended the final exam at certain time and according to the accredited exam table.</li> <li>- If the student came late after 15 minutes from the exam beginning, the student would be to</li> </ul>

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	<p>attend the exam with oral monition of never repeat.</p> <p>- In case of the repeat, the student prevented from entrance and considered absent.</p>
5	<p><b>Cheating:</b></p> <p>According to examination roles or policies:</p> <p>- If the student cheated in the year works exams of the course, the student prohibited from entrance the final exam and given zero degree with prevented him from entrance the re-sit exam of this course.</p> <p>- If the student cheated in the final exam of the course, the student prohibited from the cheated course and the followed course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them.</p> <p>- If the cheated course is the last at the exam table, the student prohibited from the cheated course and the past course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them.</p> <p>- If the cheating is discovered in subsequent time, the cheated student didn't escape from payment and ordinance is referred to precision committee and the final decision is referred to the collage council.</p> <p>- If the cheating is discovered during the correcting the answered books, the corrector has written a report to the chairman of concerned department for taking available procedure.</p> <p>- The faculty council is able to segregate the student for one academic year in 2<sup>nd</sup> cheating trial and final segregation from the university after accreditation of university council in 3<sup>rd</sup> cheating trial.</p>
6	<p><b>Plagiarism:</b></p> <p>-According to examination roles or policies:</p> <p>Plagiarism means a student plagiarizes the personality of another student.</p> <p>Plagiarism for exam purpose:</p> <p>1- Both students are prohibited from the plagiarized academic year and all results of them are rejected with prohibition of them from entrance the re-sit exam.</p> <p>2- If the plagiarized student is from outside the university, the student is referred to the university police.</p> <p>-Plagiarism for other purposes:</p> <p>1- Both students are warned as segregation.</p> <p>2- If the plagiarized student is from outside the university, the student is referred to the university police.</p>
7	<p><b>Other policies:</b></p> <p>-The student should be followed the instructions for the exam entrance.</p> <p>- The student should be followed all systems &amp; laws of the university.</p>

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