



2	Tardy: - Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable excursion, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.
3	Exam Attendance/Punctuality: <ul style="list-style-type: none">▪ Exam attendance is obligatory unless being excused by the department and faculty.▪ Absence from assignments or exams will be dealt with according to the general policy of the university.
4	Assignments & Projects: <ul style="list-style-type: none">▪ Assignments: Written and oral; Laboratory logbook signed by the responsible demonstrator. ▪Projects: Not applicable.
5	Cheating: <ul style="list-style-type: none">▪ Punishment of cheating will be according to the general policy of the university in this respect.
6	Plagiarism: <ul style="list-style-type: none">▪ Plagiarism in written essays, reports, etc. is not accepted, and students who plagiarize the works of others will be punished according to the general policy of the university.
7	Other policies: <ul style="list-style-type: none">▪ General policies of the Students' Affairs of the University and the Quality Assurance Unit.



Course Specification of Histology

I. Course Identification and General Information:						
1	Course Title:	Histology				
2	Course Number & Code:	Ph422				
3	Credit hours: 2hrs	C.H				Total
		Theoretical	Practical	Training	Seminar	
		2				
4	Study level/ semester at which this course is offered:	First year/Second semester				
5	Pre –requisite (if any):	Anatomy				
6	Co –requisite (if any):					
7	Program (s) in which the course is offered:	Bachelor of Pharmacy				
8	Language of teaching the course:	English				
9	The department in which the course is offered:	Histology Dep., Faculty of Medicine				
10	Location of teaching the course:	Faculty of Pharmacy-Sana'a University				
11	Prepared by:	Prof Dr/				
12	Date of approval:					

II. Course description:

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عميدة مركز التطوير وضمان الجودة
ا.م.د. هدى العماد

عميد الكلية
د.خالد الشوبية

رئيس القسم

نائب العميد لشؤون الجودة
ا.د. محمود البريهي

الموصف



This course aims to provide the students the basis histological structure and ultra structure of the eukaryotic cell with correlation to biological cellular activities. The normal histological structure of different tissues of human body in addition to some of its systems. Different tissues under the microscope, with functional and clinical correlation whenever possible. The historical structure of various organs and systems of the body and to correlate between the structure and function with relevant clinical notes whenever possible.

III. Intended learning outcomes (ILOs) of the course:

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At the end of this course, the students will be able to:

1. Know the structure and functions of the cytoplasmic components and identify the subunits of each nuclear component and their role in its function
2. Know the structural characteristics of the four basic tissue types and differentiate the functional capabilities of each tissues type and their structure.
3. Identify the different blood elements and Describethe basic histological structure of some systems (vascular & lymphatic).
4. Describe the normal histological structure of various body systems (respiratory, digestive, endocrine, urinary, male & female reproductive, eye, ear, and central nervous system) and distinguish structural features of organs, regions and cell types present in each system and relate the structural variations to differences in organ function.
5. Know ultrastructure and function of different cell types in different organs of the body. Acquire good, scientific knowledge so his counseling abilities to patients improve health
6. Recognize the composition of each tissues type to its specific functions.
7. Select appropriate methods to reveal specific microscopic features of cells and tissues.
8. Utilize information to predict the intracellular or tissue type components likely to be involved in a functional deficit.
9. Use information to correlate between histological structural and function of different organs of all studied systems.
10. Recognize the pathology of cells, tissues and organs in his study during next years, based on enough knowledge of their normal structure.
11. Use the microscope efficiently
12. Use effectively the histological glass slides and examine them using the maximum microscopic facilities.
13. Assess different cellular and intracellular components in electron Photomicrographs
14. Differentiate between types of cells and tissues in histological slides.
15. Analyze drawing and labeling the structures they have seen in electron photomicrographs and under light microscope during practical classes.
16. Communicate actively with his colleagues as well as the employees and staff members.
17. Retrieve the sources of biomedical information available to remain current with advance in knowledge and practice

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

(A) Knowledge and Understanding:

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Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding.			
Program Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding		Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding	
After completing this program, students will be able to:		After completing this course, students will be able to:	
A1-	Recognize the principles of physical, clinical, social, behavioral, health and pharmaceutical sciences.	a1-	Know the structure and functions of the cytoplasmic components and identify the subunits of each nuclear component and their role in its function
A3-	Describe the general cellular, biochemical and physiological aspects of human body and recognize the pharmacokinetics, pharmacodynamics, disease pathophysiology, and pharmacogenetic of therapeutic agents to provide pharmaceutical care and facilitate management of patient's medication, rationalize drug use and overall health needs.	a2-	Know the structural characteristics of the four basic tissue types and differentiate the functional capabilities of each tissues type and their structure.
A5-	Demonstrate the basic knowledge of pharmacoconomics, pharmacovigilance, policy, legislation, marketing, administration and distribution of pharmaceutical and cosmetic products as well as ethics of health care.	a3-	Identify the different blood elements and Describethe basic histological structure of some systems (vascular & lymphatic).
		a4-	Describe the normal histological structure of various body systems (respiratory, digestive, endocrine, urinary, male & female reproductive, eye, ear, and central nervous system) and distinguish structural features of organs, regions and cell types present in each system and relate the structural variations to differences in organ function.

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		a5-	Know ultrastructure and function of different cell types in different organs of the body. Acquire good, scientific knowledge so his counseling abilities to patients improve health
Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding		Teaching strategies/methods to be used	Methods of assessment
completing this course, students will be able to:		Lectures and group discussion	Attendance, Written, oral exams and small projects
a1-	Know the structure and functions of the cytoplasmic components and identify the subunits of each nuclear component and their role in its function		
a2-	Know the structural characteristics of the four basic tissue types and differentiate the functional capabilities of each tissues type and their structure.		
a3-	Identify the different blood and Describethe basic histological structure of some systems (vascular & lymphatic).		
a4-	Describethe normal histological structure of various body systems (respiratory, digestive, endocrine, urinary, male & female reproductive, eye, ear, and central nervous system) and distinguish structural features of organs, regions and cell types present in each system and relate the structural variations to differences in organ function.		

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الموصف



a5-	Know ultrastructure and function of different cell types in different organs of the body. Acquire good, scientific knowledge so his counseling abilities to patients improve health		
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(B) Intellectual Skills:	
Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills	
Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills	Course Intended Learning Outcomes (CILOs) of Intellectual Skills

After completing this program, students will be able to:		After completing this course, students will be able to:	
B1	Consolidate the chemical, biochemical and physiological principles to construct the pharmacophores of the structure and their effect on the stability, pharmacokinetic and pharmacodynamic profiles of the drug.	b1-	Recognize the composition of each tissues type to its specific functions.
		b2-	Select appropriate methods to reveal specific microscopic features of cells and tissues.
B5	Interpret the prescriptions, patient and clinical data, Analysis all the encountered pharmaceutical problems and plan the strategies for their solution, to develop the health care.	b3-	Utilize information to predict the intracellular or tissue type components likely to be involved in a functional deficit.
		b4-	Use information to correlate between histological structural and function of different organs of all studied systems.
		b5-	Recognize the pathology of cells, tissues and organs in his study during next years, based on enough knowledge of their normal structure.

Teaching And Assessment Methods For Achieving Learning Outcomes:	
Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:	

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ا.د. محمود البريهي	ا.د. محمد البريهي	د. خالد الشوبية	ا.م.د. هدى العماد	ا.د. القاسم محمد عباس	ا.د. القاسم محمد عباس



Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Lectures, brainstorming and group discussion	Written, oral exams project, and small projects
b1-	Recognize the composition of each tissues type to its specific functions.		
b2-	Select appropriate methods to reveal specific microscopic features of cells and tissues.		
b3-	Utilize information to predict the intracellular or tissue type components likely to be involved in a functional deficit.		
b4-	Use information to correlate between histological structural and function of different organs of all studied systems.		
b5-	Recognize the pathology of cells, tissues and organs in his study during next years, based on enough knowledge of their normal structure.		

(C) Professional and Practical Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills			
Program Intended Learning Outcomes (Sub- PILOs) in Professional and Practical Skills		Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
C4-	Provide patient-oriented pharmaceutical care by collaboration with other health care professionals to optimize therapeutic outcomes.	c1-	Use the microscope efficiently
		c2-	

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C5-	Conduct research studies and utilize the results in different pharmaceutical fields.	Use effectively the histological glass slides and examine them using the maximum microscopic facilities.
		c3- Assess different cellular and intracellular components in electron Photomicrographs
		c4- Differentiate between types of cells and tissues in histological slides.
		c5- Analyze drawing and labeling the structures they have seen in electron photomicrographs and under light microscope during practical classes.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Lectures, brainstorming and group discussion	Written, oral exams, report, project and observation.
c1-	Use the microscope efficiently		
c2	Use effectively the histological glass slides and examine them using the maximum microscopic facilities.		
c3	Assess different cellular and intracellular		
	components in electron Photomicrographs		
c4-	Differentiate between types of cells and tissues in histological slides.		
c5-	Analyze drawing and labeling the structures they have seen in electron photomicrographs and under light microscope during practical classes.		

(D) General / Transferable Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **General and Transferable skills**

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Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
D2-	Employ proper documentation and filing systems in different pharmaceutical fields	d1-	Communicate actively with his colleagues as well as the employees and staff members.
D4-	Take responsibility for adaptation to change needs in pharmacy practice.	d2	Retrieve the sources of biomedical information available to remain current with advance in knowledge and practice
D5-	Apply information and communication technology and working effectively in a team.		

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Lectures, brainstorming and group discussion	Written, oral exams, report, project and observation.
d1-	Communicate actively with his colleagues as well as the employees and staff members.		
d2-	Retrieve the sources of biomedical information available to remain current with advance in knowledge and practice		

V. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

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Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Cytology	a1, b1, c1, d1		1	2
2	Cytology (cont.)	a1,a2, b2, b3, c2, d2		1	2
3	Epithelium+nucleus	a3,a4, b2, b3, c4, d2		1	2
4	Connective tissue	a4,a5, b2, b5, c5, d1,d2		1	2
5	Cartilage+bone	a5 , b3, c1, c3 , c4, c5		1	2
6	Blood & muscle tissue	a5,b3, c4 , c5 , d1 , d2		1	2
7	Mid-term exam	a1-5, b1-5, c1-5		1	2
8	Nerve tissue & lymphatics	a4, a5 , b5, c2 , c3 , c4 , d1 ,d2		1	2
9	Cardiovascular system	a5 , b4 , c4 , c5 ,d1		1	2
10	Histology of respiratory system	a4 ,a5 , b5 ,c1 , c2 , d1, d2		1	2
11	Histology of digestive glands	a5 , b4 , c2 , c3 , d1 , d2		1	2
12	Urinary system	a3,b4 , c3 , c4 , c5 ,d2		1	2
13	male reproductive system	a3 ,a5 , b4 , c1, c2 , c3 ,c4 , c5 ,d1 , d2		1	2
14	female reproductive system	a3 ,a5 , b4 , c1, c2 , c3 ,c4 , c5 ,d1 , d2		1	2
15	Skin & endocrine	a3 ,a4,a5 , b4 ,b5, c1, c2 , c3 ,c4 , c5 ,d1 , d2		1	2
16	Final-term exam	a1-5, b1-5, c1-5		1	2
Number of Weeks /and Units Per Semester				16	32

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VI. a- Teaching strategies of the course:

Lecture method, Group Discussion, Problem solving sessions, tutorials and brainstorming.

b-Assessment Methods:

Oral Exam, Quizzes, Attendance, Participation, Short answers, reports, project, and Written exam

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Quizzes, Attendance, Participation,	All weeks	10	10%	a1-5, b1-5, c1-5
2	Written Mid exam, Oral exam, reports, projects	2-14	30	30%	a1-5, b1-5, c1-5
3	Written Final exam	16th	60	60%	a1-5, b1-5, c1-5
Total			100	100%	

VIII. Students' Support:

Office Hours/week	Other Procedures (if any)
2hrs/week	

IX. Learning Resource (MLA style or APA style)S:

1- Required Textbook(s) (maximum two)

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عميد الكلية: د. خالد الشوبية
عميدة مركز التطوير وضمان الجودة: ا.م.د. هدى العماد
رئيس الجامعة: ا.د. القاسم محمد عباس



2- Recommended Readings and Reference Materials	
	1. Basic histology Text and Atlas (2010). Junqueira. L. C. 12 th edition. McGraw-Hill Companie Inc.
	2. - Atlas of histology (2004). Di Fiore.10 th edition. Lippincott Williams & Wilkins.
	3. - Functional Histology (2005) .Wheater'sText & Atlas of Histology. 5 th edition. Churchill Livingstone
3- Electronic Materials and Web Sites etc.	
	http://www.histology-world.com/ http://www.bu.edu/histology/m/index.htm
4- Other Learning Material:	
	.
	1. Essentials of Human Histology (Department of Histology faculty of Medicine.
	2. Electron Microscopic Atlas of Mammalian Tissues (2001). H. Jastrow. Work shop Anatomy of the internet.

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I. Facilities Required:

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1 - Accommodation:	<ul style="list-style-type: none"> - Well-equipped lecture halls with data show facilities, whiteboards, net connection, etc. - Well-equipped laboratories with all required equipment and reagents.
2 - Computing resources:	<ul style="list-style-type: none"> - Computer laboratory with internet facilities.
II. Course Improvement Processes:	
1- Strategies for obtaining student feedback on effectiveness of teaching	
	<ul style="list-style-type: none"> ▪ Student-based assessment of the effectiveness of teaching using a questionnaire designed by the Quality Assurance Unit at the end of the semester. ▪ Meeting with students and faculty (once per semester).
2- Other strategies for evaluation of teaching by the instructor or by the department.	
	<ul style="list-style-type: none"> ▪ Assessment of the course syllabus and contents by the teachers using a questionnaire designed by the Quality Assurance Unit of the university at the end of the semester. ▪ Regular meeting and discussion of the course content between the Head of Department and the teaching staff of the course (for theory and practice).
3- Processes for improvement of teaching.	
	<ul style="list-style-type: none"> ▪ Revision of the course specification and its teaching strategies every three academic years after consideration of all issues raised by the teachers and/or students during regular meetings and discussions. ▪ Exploring any possible defects in the course that might be encountered by the teaching staff and their mitigation in subsequent improved versions of course specification.
4- Processes for verifying standards of students' achievement	

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	<ul style="list-style-type: none"> ▪ Checking of a sample of students' work by an independent faculty member. ▪ Periodic exchange and check marking of a sample of students' assignments with a faculty member from another institution. ▪ Adoption of scoring rubrics to assess the students' achievement (both for ongoing or summative assessments). ▪ Regular follow-up of laboratory logbooks to assess the practical achievement of students.
5[~] Procedures for periodically reviewing of course effectiveness and planning for improvement	
	<ul style="list-style-type: none"> ▪ Student rating and feedback ▪ Peer rating and feedback ▪ Regular meeting of the Curriculum Committee of the faculty.
6- Course development plans	
	<ul style="list-style-type: none"> ▪ Conducting regular workshops for the staff for improving their course specification skills. ▪ Regular revision of course specification and syllabus items.

VIII. Course Policies: (including plagiarism, academic honesty, attendance etc)	
The University Regulations on academic misconduct will be strictly enforced. Please refer to -----	
1	Class Attendance:
	<ul style="list-style-type: none"> ▪ Attendance of all lectures and practical sessions is required. Unexcused absence exceeding 25% of the lectures or practical sessions will disqualify the student from entering the final exam.
2	Tardy:
	<p>- Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable excursion, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.</p>

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 ا.د. محمود البريهي ا.د. هدى العماد د. خالد الشوبية ا.د. القاسم محمد عباس



3	Exam Attendance/Punctuality: <ul style="list-style-type: none"> Exam attendance is obligatory unless being excused by the department and faculty. Absence from assignments or exams will be dealt with according to the general policy of the university.
4	Assignments & Projects: <ul style="list-style-type: none"> Assignments: Written and oral; Laboratory logbook signed by the responsible demonstrator. Projects: Not applicable.
5	Cheating: <ul style="list-style-type: none"> Punishment of cheating will be according to the general policy of the university in this respect.
6	Plagiarism: <ul style="list-style-type: none"> Plagiarism in written essays, reports, etc. is not accepted, and students who plagiarize the works of others will be punished according to the general policy of the university.
7	Other policies: <ul style="list-style-type: none"> General policies of the Students' Affairs of the University and the Quality Assurance Unit.

Course Plan of Histology

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

II. Course Identification and General Information:	
1-	Course Title: Histology
2-	Course Number & Code: Ph422

الموصف: ا.د. محمود البريهي
نائب العميد لشؤون الجودة: رئيس القسم
عميد الكلية: د. خالد الشوبية
عميدة مركز التطوير وضمان الجودة: ا.م.د. هدى العماد
رئيس الجامعة: ا.د. القاسم محمد عباس



3-	Credit hours: 2hrs	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		2	-	-		2
4-	Study level/year at which this course is offered:	First year/Second semester				
5-	Pre –requisite (if any):					
6-	Co –requisite (if any):					
7-	Program (s) in which the course is offered	Bachelor of Pharmacy				
8-	Language of teaching the course:	English				
9-	System of Study:	Semesters				
10-	Mode of delivery:	Regular				
11-	Location of teaching the course:	Faculty of Pharmacy-Sana'a University				

III. Course description:

This course aims to provide the students the basis histological structure and ultra structure of the eukaryotic cell with correlation to biological cellular activities. The normal histological structure of different tissues of human body in addition to some of its systems. Different tissues under the microscope, with functional and clinical correlation whenever possible. The historical structure of various organs and systems of the body and to correlate between the structure and function with relevant clinical notes whenever possible.

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

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الموصف



At the end of this course, the students will be able to:

1. Know the structure and functions of the cytoplasmic components and identify the subunits of each nuclear component and their role in its function
2. Know the structural characteristics of the four basic tissue types and differentiate the functional capabilities of each tissues type and their structure.
3. Identify the different blood elements and Describethe basic histological structure of some systems (vascular & lymphatic).
4. Describe the normal histological structure of various body systems (respiratory, digestive, endocrine, urinary, male & female reproductive, eye, ear, and central nervous system) and distinguish structural features of organs, regions and cell types present in each system and relate the structural variations to differences in organ function.
5. Know ultrastructure and function of different cell types in different organs of the body. Acquire good, scientific knowledge so his counseling abilities to patients improve health
6. Recognize the composition of each tissues type to its specific functions.
7. Select appropriate methods to reveal specific microscopic features of cells and tissues.
8. Utilize information to predict the intracellular or tissue type components likely to be involved in a functional deficit.
9. Use information to correlate between histological structural and function of different organs of all studied systems.
10. Recognize the pathology of cells, tissues and organs in his study during next years, based on enough knowledge of their normal structure.
11. Use the microscope efficiently
12. Use effectively the histological glass slides and examine them using the maximum microscopic facilities.
13. Assess different cellular and intracellular components in electron Photomicrographs
14. Differentiate between types of cells and tissues in histological slides.
15. Analyze drawing and labeling the structures they have seen in electron photomicrographs and under light microscope during practical classes.
16. Communicate actively with his colleagues as well as the employees and staff members.
17. Retrieve the sources of biomedical information available to remain current with advance in knowledge and practice

V. Course Content:

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ا.د. القاسم محمد عباس

عميدة مركز التطوير وضمان الجودة
ا.م.د. هدى العماد

عميد الكلية
د.خالد الشوبية

رئيس القسم

نائب العميد لشؤون الجودة
ا.د. محمود البريهي

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1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Cytology	a1, b1, c1, d1		1	2
2	Cytology (cont.)	a1,a2, b2, b3, c2, d2		1	2
3	Epithelium+nucleus	a3,a4, b2, b3, c4, d2		1	2
4	Connective tissue	a4,a5, b2, b5, c5, d1,d2		1	2
5	Cartilage+bone	a5 , b3, c1, c3 , c4, c5		1	2
6	Blood & muscle tissue	a5,b3, c4 , c5 , d1 , d2		1	2
7	Mid-term exam	a1-5, b1-5, c1-5		1	2
8	Nerve tissue & lymphatics	a4, a5 , b5, c2 , c3 , c4 , d1 ,d2		1	2
9	Cardiovascular system	a5 , b4 , c4 , c5 ,d1		1	2
10	Histology of respiratory system	a4 ,a5 , b5 ,c1 , c2 , d1, d2		1	2
11	Histology of digestive glands	a5 , b4 , c2 , c3 , d1 , d2		1	2
12	Urinary system	a3,b4 , c3 , c4 , c5 ,d2		1	2
13	male reproductive system	a3 ,a5 , b4 , c1, c2 , c3 ,c4 , c5 ,d1 , d2		1	2
14	female reproductive system	a3 ,a5 , b4 , c1, c2 , c3 ,c4 , c5 ,d1 , d2		1	2
15	Skin & endocrine	a3 ,a4,a5 , b4 ,b5, c1, c2 , c3 ,c4 , c5 ,d1 , d2		1	2

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16	Final-term exam	a1-5, b1-5, c1-5	1	2
Number of Weeks /and Units Per Semester			16	32

VI. a- Teaching strategies of the course:

Lecture method, Group Discussion, Problem solving sessions, tutorials and brainstorming.

b-Assessment Methods:

Oral Exam, Quizzes, Attendance, Participation, Short answers, reports, project, and Written exam

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Quizzes, Attendance, Participation,	All weeks	10	10%	a1-5, b1-5, c1-5
2	Written Mid exam, Oral exam, reports, projects	2-14	30	30%	a1-5, b1-5, c1-5
3	Written Final exam	16th	60	60%	a1-5, b1-5, c1-5
Total			100	100%	

VIII. Students' Support:

Office Hours/week	Other Procedures (if any)
2hrs/week	

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IX. Learning Resource (MLA style or APA style)S:

5- Required Textbook(s) (maximum two)

3. Essentials of Human Histology (Department of Histology faculty of Medicine.
4. Electron Microscopic Atlas of Mammalian Tissues (2001). H. Jastrow. Work shop Anatomy of the internet.

6- Recommended Readings and Reference Materials

4. Basic histology Text and Atlas (2010). Junqueira. L. C. 12 th edition. McGraw-Hill Companie Inc.
5. - Atlas of histology (2004). Di Fiore.10 th edition. Lippincott Williams & Wilkins.
6. - Functional Histology (2005) .Wheater'sText & Atlas of Histology. 5 th edition. Churchill Livingstone

7- Electronic Materials and Web Sites etc.

<http://www.histology-world.com/> <http://www.bu.edu/histology/m/index.htm>

8- Other Learning Material:

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III. Facilities Required:

1 - Accommodation:	- Well-equipped lecture halls with data show facilities, whiteboards, net connection, etc. - Well-equipped laboratories with all required equipment and reagents.
3 - Computing resources:	- Computer laboratory with internet facilities.

IV. Course Improvement Processes:

6- Strategies for obtaining student feedback on effectiveness of teaching

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	<ul style="list-style-type: none"> Student-based assessment of the effectiveness of teaching using a questionnaire designed by the Quality Assurance Unit at the end of the semester. Meeting with students and faculty (once per semester).
7- Other strategies for evaluation of teaching by the instructor or by the department.	
	<ul style="list-style-type: none"> Assessment of the course syllabus and contents by the teachers using a questionnaire designed by the Quality Assurance Unit of the university at the end of the semester. Regular meeting and discussion of the course content between the Head of Department and the teaching staff of the course (for theory and practice).
8- Processes for improvement of teaching.	
	<ul style="list-style-type: none"> Revision of the course specification and its teaching strategies every three academic years after consideration of all issues raised by the teachers and/or students during regular meetings and discussions. Exploring any possible defects in the course that might be encountered by the teaching staff and their mitigation in subsequent improved versions of course specification.
9- Processes for verifying standards of students' achievement	
	<ul style="list-style-type: none"> Checking of a sample of students' work by an independent faculty member. Periodic exchange and check marking of a sample of students' assignments with a faculty member from another institution. Adoption of scoring rubrics to assess the students' achievement (both for ongoing or summative assessments). Regular follow-up of laboratory logbooks to assess the practical achievement of students.
10- Procedures for periodically reviewing of course effectiveness and planning for improvement	
	<ul style="list-style-type: none"> <input type="checkbox"/> Student rating and feedback <input type="checkbox"/> Peer rating and feedback <input type="checkbox"/> Regular meeting of the Curriculum Committee of the faculty.



6- Course development plans	
	<ul style="list-style-type: none"> Conducting regular workshops for the staff for improving their course specification skills.
	<ul style="list-style-type: none"> Regular revision of course specification and syllabus items.

IX. Course Policies: (including plagiarism, academic honesty, attendance etc)	
The University Regulations on academic misconduct will be strictly enforced. Please refer to -----	
1	Class Attendance: <ul style="list-style-type: none"> Attendance of all lectures and practical sessions is required. Unexcused absence exceeding 25% of the lectures or practical sessions will disqualify the student from entering the final exam.
2	Tardy: - Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable excursion, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.
3	Exam Attendance/Punctuality: <ul style="list-style-type: none"> Exam attendance is obligatory unless being excused by the department and faculty. Absence from assignments or exams will be dealt with according to the general policy of the university.
4	Assignments & Projects: <ul style="list-style-type: none"> Assignments: Written and oral; Laboratory logbook signed by the responsible demonstrator. ■ Projects: Not applicable.
5	Cheating: <ul style="list-style-type: none"> Punishment of cheating will be according to the general policy of the university in this respect.
6	Plagiarism: <ul style="list-style-type: none"> Plagiarism in written essays, reports, etc. is not accepted, and students who plagiarize the works of others will be punished according to the general policy of the university.
7	Other policies: <ul style="list-style-type: none"> General policies of the Students' Affairs of the University and the Quality Assurance Unit.

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