

1-Basic information

Course Code:	S1-HIST
Course title:	General and special Histology
Academic year:	First year
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	Lecture: 3hrs/week Practical: 3hrs/week
Approval Date	

2-Professional information

Overall aims of course:

- 1- Describe the normal microscopic structure of all body tissues and organs
- 2- Differentiate between the different body tissues and cells.
- 3- Identify special cellular and tissue constituents according to its staining affinity.
- 4- Specify cellular constituents and mention their role in the cell and the organs

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

By the end of this course the student should be able to:

1st semester

- a1- Classify the animal cells and tissues according to their shapes and functions.
- a2- Identify the structure and function of the different cells in the body as well as the tissues of different animal species.
- a3- Mention the cytoplasmic organelles and types of specialized tissues
- a4- describe the normal microscopic structure of animal cell and tissues.

2nd semester

- a1- Classify the animal body systems and organs.
- a2- Identify the structure and function of the different organs in different animal species.
- a3- Mention the types of specialized tissues in the animals organs
- a4- Illustrate the comparative microscopic structure of organs in different animal species.

b-Intellectual skills

By the end of this course the student should be able to:

1st semester

- b1- interpret the microscopic structure of all body cells and tissues
- b2-differentiate between the microscopic structure of some tissues in different animal species
- b3- correlate the relationship between the basic microscopic structure and functions of all body tissues

2nd semester

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- b1- Deal with the microscopic structure of all body organs.
- b2-Differentiate between the microscopic structure of body organs in different animal species
- b3- Discuss the relationship between the basic microscopic structure and functions of all body organs

C- Professional and practical skills

By the end of this course the student should be able to:

- 1st semester
- c1. Obtain histological specimen.
- c2. Use the light microscope to examine stained sections.
- c3. Practice the cells and tissue constituents according to their staining affinity.
- c4. Employ all the gained knowledge in histological practice in skillful pattern.
- 2nd semester c1. Obtain histological specimen.
- c2. Use the light microscope to examine stained sections.
- c3 Practice the organs constituents according to their staining affinity.
- c4. Employ all the gained knowledge in histological practice in skillful pattern.

d- General and transferable skills

By the end of studying the course, the student should be able to:

1st and 2nd semesters

- d1. Work in groups and manage time
- d2. Communicate with their professors and staff members
- d.3. Utilize computer, microscope and internet for research work
- d4. Demonstrate the ability of problem definition and increase the ability of problem solving

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
ester sy 1./week)	Course description Introduction and histological terminology *	3	3	
irst semes histology Pract.3 h./	Histological techniques	6		6
r-first ral hist eek, Prac	- Cytology	9	6	3
First year-first semester General histology .ec. 3 h/week, Pract.3 h/wee	Epithelial tissue	9	3	6
Fin	- Connective tissue	18	9	9

Blood and hematopiotic tissue				Г	1
- Nervous tissue - Nervous system - Respiratory system - Respiratory system - Nervous syste		- Blood and hematopiotic tissue	6	3	3
Cardiovascular system 6		- Muscular tissue	6	3	3
Immunity and Lymphatic tissue		- Nervous tissue	6	3	3
Total To		- Nervous system	6	3	3
Cardiovascular system 6		Immunity and Lymphatic tissue	9	6	3
- Respiratory system 6 3 3 3 - Urinary system 6 3 3 3 - Male genital system 12 6 6 - Female genital system 6 3 3 - Digestive system 18 9 9 - Endocrine system 12 6 6 - Skin and mammary gland 6 3 3 3 - Sense organs 6 3 3		Total		39	39
- Respiratory system 6 3 3 3 - Urinary system 6 3 3 3 - Male genital system 12 6 6 - Female genital system 6 3 3 - Digestive system 18 9 9 - Endocrine system 12 6 6 - Skin and mammary gland 6 3 3 3 - Sense organs 6 3 3					
- Urinary system 6 3 3 3 - Male genital system 12 6 6 - Female genital system 6 3 3 3 - Digestive system 18 9 9 - Endocrine system 12 6 6 - Skin and mammary gland 6 3 3 3 - Sense organs 6 3 3		Cardiovascular system	6	3	3
- Sense organs 6 3 3	_	- Respiratory system	6	3	3
- Sense organs 6 3 3	ter sek)	- Urinary system	6	3	3
- Sense organs 6 3 3	emes ogy 3h./we	- Male genital system	12	6	6
- Sense organs 6 3 3	ond sond solution	- Female genital system	6	3	3
- Sense organs 6 3 3	ar-sec ecial l	- Digestive system	18	9	9
- Sense organs 6 3 3	Sp. Sp.	- Endocrine system	12	6	6
	(F E	- Skin and mammary gland	6	3	3
Total 39 39		- Sense organs	6	3	3
		Total		39	39

5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows
- 5.2- Self learning by preparing essays and presentations (computer researches and faculty library)
- 5.3- Practical and small group sessions (models, samples of stained tissues and data show).
- 5.4 Audiovisual (videos)

6-Teaching and learning methods for the students with disabilities

Office hours and special meeting

7-Student assessment

7.1. Assessments methods:

M-4lJ	Matrix alignment of	f the measured II	Os/ Assessmer	nts methods
Method	K&U	I.S	P&P.S	G.S
Written Exam	a1- a2- a3- a4	b1- b2- b3-	c1- c2- c3-	
Practical Exam	a4	b1- b2	c1- c2- c3-c4	d3
Oral Exam	a1- a2- a3- a4	b1- b2- b3-	c4	d2- d4

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exam	14 th week
written exam	15 th week
Oral Exam	managed by the department
student activities	along the semester

7.3. Weight of assessments/semester

The state of the second series	•••	
Assessment	Weight of assessment	
written exam	50%	
Practical exam	30%	
Oral Exam	20%	
student activities		
total	100%	

8- List of references

8.1. Notes and books

Departmental notes on:

- -Text book of veterinary histology part I:-Prof.Dr.Khaled Mazher, Dr.Taghreed Nabil,Dr. Usama Kamal and Dr.Abdel-Razek Hashem. 2015/ I.S.B.N. 27221/2015
- -Text book of veterinary histology part II:-Prof.Dr.Khaled Mazher, Dr.Taghreed Nabil,Dr. Usama Kamal and Dr.Abdel-Razek Hashem. 2015/ I.S.B.N. 27219/2015

8.2. Essential books:

- Weather's Functional Histology (main reference book), a text and colour atlas. Fourth edition, by B. Young and J.W. Heath.

Cormack, D. H. (1987): Ham's Histology 9th Ed. J. B. Lippincott Company, Philadelphia, London, Mexico City, New York, St. Louis, Sao Paulo, Sydney

8.3. Recommended texts

- Headlines of Veterinary Histology. Hany E. S. Marei. 5th ed. 2006. V II.

8.4. Journals, Websitesetc

Journals:

- American Journal of anatomy



- -Anatomia Histologia Embryologia
- -Anatomical record
- -Egyptian journal of Histology

Websites:

WWW.Science direct
WWW. Pubmed.com
WWW.Scholar google.com

Course Coordinators

Dr. Taghreed Mohamed Nabil

Head of Department

Prof.Dr/Khaled M. Mazher



	Tonics	Wook	Intended	Intended learning outcomes of course (II Os)	f course (I)	(30)
	1 st semester		K and U (a)	(a) S.I	P. P.S. (c)	G.T.S (d)
1	Introduction and histological terminology * Histological techniques	1^{st}	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4
2	Cytology	2 nd and 3 rd	1,2,3,4	1,3	2,3,4	1,2,3,4
3	Epithelial tissue	4 th	1,2,4	1,2,3	2,3,4	1,2,3,4
4	Connective tissue	5 th and 6 th	1,2,4	1,2,3	2,3,4	1,2,3,4
5	Blood	7 th	1,2,4	1,2,3	2,3,4	1,2,3,4
9	Muscular tissue	8 th	1,2,4	1,2,3	2,3,4	1,2,3,4
7	Nervous tissue	9 th	1,2,4	1,2,3	2,3,4	1,2,3,4
8	Nervous system	$10^{ ext{th}}$ and $11^{ ext{th}}$	1,2,4	1,2,3	2,3,4	1,2,3,4
6	Lymphatic system	12 th and 13 th	1,2,4	1,2,3	2,3,4	1,2,3,4
	2 nd semester					
10	Cardiovascular system	$\mathtt{1}^{\mathrm{st}}$	1,2,3,4	1,2,3	2,3,4	1,2,3,4
11	Respiratory system	2 _{nd}	1,2,3,4	1,2,3	2,3,4	1,2,3,4
12	Urinary system	3 rd	1,2,3,4	1,2,3	2,3,4	1,2,3,4
13	Male genital system	4 th and 5 th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
14	Female genital system	$6^{ m th}$	1,2,3,4	1,2,3	2,3,4	1,2,3,4
15	Digestive system	7 th ,8 th ,9 th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
16	Endocrine system	$10^{ m th}$ and $11^{ m th}$	1,2,3,4	1,2,3	2,3,4	1,2,3,4
17	Skin and mammary gland	12 th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
18	Sense organs	13 th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
	Students activities		1,2,3,4	1,2,3	2,3,4	1,2,3,4

