Beni-Suef University
Faculty of Veterinary Medicine

Course specification

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

a5- Classify the animal body systems and organs.
a6- Identify the structure and function of the different organs in different animal species.
a7- Mention the types of specialized tissues in the animals organs
a8- 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

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2nd semester

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b4- Deal with the microscopic structure of all body organs.
b5-Differentiate between the microscopic structure of body organs in different animal species
b6- 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

c5. Practice the organs constituents according to their staining affinity.

d- General and transferable skills

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

1st semester

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 de nition and increase the ability of problem solving

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
First year-first semester General histology (Lec. 3 h./week, Pract.3 h./week)	**Course description** Introduction and histological terminology *	3	3	
	Histological techniques	6		6
	- Cytology	9	6	3
	Epithelial tissue	9	3	6
	- Connective tissue	18	9	9
	- Blood and hematopiotic tissue	6	3	3

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	- Muscular tissue	6	3	3
	- Nervous tissue	6	3	3
	- Nervous system	6	3	3
	Immunity and Lymphatic tissue	9	6	3
	Total		39	39
First year-second semester Special histology (Lec. 3 h./week, Pract. 3h./week)	Cardiovascular system	6	3	3
	- Respiratory system	6	3	3
	- Urinary system	6	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
	- 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:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	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

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7.2. Assessment schedules/semester:

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

7.3. Weight of assessments/semester

Assessment	Weight of assessment
written exam	50%
Practical exam	30%
Oral Exam	20%
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, Websites ……..etc

Journals:

- American Journal of anatomy
-Anatomia Histologia Embryologia
-Anatomical record
-Egyptian journal of Histology

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

Course Coordinators **Head of Department**
Dr. Taghreed Mohamed Nabil

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	Topics	Week	Intended learning outcomes of course (ILOs)			
	1st semester		**K and U (a)**	**I.S (b)**	**P. P.S. (c)**	**G.T.S (d)**
1	Introduction and histological terminology * Histological techniques	1st	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4
2	Cytology	2nd and 3rd	1,2,3,4	1,3	2,3,4	1,2,3,4
3	Epithelial tissue	4th	1,2,4	1,2,3	2,3,4	1,2,3,4
4	Connective tissue	5th and 6th	1,2,4	1,2,3	2,3,4	1,2,3,4
5	Blood	7th	1,2,4	1,2,3	2,3,4	1,2,3,4
6	Muscular tissue	8th	1,2,4	1,2,3	2,3,4	1,2,3,4
7	Nervous tissue	9th	1,2,4	1,2,3	2,3,4	1,2,3,4
8	Nervous system	10th and 11th	1,2,4	1,2,3	2,3,4	1,2,3,4
9	Lymphatic system	12th and 13th	1,2,4	1,2,3	2,3,4	1,2,3,4
	2nd semester					
10	Cardiovascular system	1st	1,2,3,4	1,2,3	2,3,4	1,2,3,4
11	Respiratory system	2nd	1,2,3,4	1,2,3	2,3,4	1,2,3,4
12	Urinary system	3rd	1,2,3,4	1,2,3	2,3,4	1,2,3,4
13	Male genital system	4th and 5th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
14	Female genital system	6th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
15	Digestive system	7th ,8th ,9th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
16	Endocrine system	10th and 11th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
17	Skin and mammary gland	12th	1,2,3,4	1,2,3	2,3,4	1,2,3,4
18	Sense organs	13th	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