



Course specification

1-Basic information

Course Code:	HIS:2115
Course title :	Histology (Special part II)
Academic year:	Second year (1 st semester)
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	Lecture: 1hrs/week Practical: 2hrs/week
Approval Date	

2-Professional information

Overall aims of course:

The main aim of this course is to provide the students with the basic knowledge about the microscopic structure of different organs in lymphatic, respiratory, integumentary and endocrine systems of different animal species, birds and fish with their functional correlates.

- 1- Describe the normal microscopic structure of organs in lymphatic, respiratory, integumentary and endocrine systems of animals ,birds and fish
- 2- Differentiate between the different organs in lymphatic, respiratory, integumentary and endocrine systems of animals and birds.
- 3- Identify special constituents in the avian and animal organs in lymphatic, respiratory, integumentary and endocrine systems according to its staining affinity.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

- a1- List the organs in each system of birds (lymphatic, respiratory, integumentary and endocrine systems) .
- a2- list the microscopic structural features of the different organs in lymphatic, respiratory, integumentary and endocrine systems of birds, fish and mammals.
- a3- Mention the functions of each organ of lymphatic, respiratory, integumentary and endocrine systems in mammals, fish and avian bodies.
- a4- Draw labeled diagrams of microscopic structure of the organs in lymphatic, respiratory, integumentary and endocrine systems in different species.

b-Intellectual skills

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

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

c- Professional and practical skills

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

- c1.Obtain histological specimen from a bird.



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- c2. Use the light microscope to examine stained sections.
- c3. Identify 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:

- d1. Work in groups and manage time
- d2. Communicate with their professors and staff members
- d3. 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
First year-second semester Special histology (Lec. 3 h./week, Pract. 3h./week)	Respiratory System of domestic animals, poultry and fish.	9	3	6
	Lymphatic System and Immunity of domestic animals, poultry and fish.	9	3	6
	Endocrine System of domestic animals, poultry and fish.	12	4	8
	Integumentary system of domestic animals, poultry and fish.	6	2	4
	Sense Organs of domestic animals, poultry and fish.	3	1	2
	Total		39	13

5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows
- 5.2- Self learning by preparing essays, review articles and presentations (computer researches and faculty library)
- 5.3- Practical and small group sessions (microscope, 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



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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-		
Practical Exam		b1- b2	c2- c3-c4	d3
Oral Exam	a1- a2- a3- a4	b1- b2- b3-	c4	d2- d4
Student activities		b1- b2- b3	c4	d1-d2-d3-d4

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14 th week
Written exams	15 th week
Oral Exam	managed by the department
Student activities	All over the semester

7.3. Weight of assessments/semester

Assessment	Weight of assessment
Written exam	50%
Practical exam	20%
Oral Exam	20%
Student activities	10%
total	100%

8- List of references

8.1. Notes and books

Departmental notes on:

-Text book of veterinary histology part III:-Prof.Dr.Khaled Mazher, Dr.Taghreed Nabil,Dr. Usama Kamal and Dr.Abdel-Razek Hashem.

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.



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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](http://WWW.Scholar.google.com) google.com

[WWW.welly](http://WWW.wellyinterscience.com) interscience

Course Coordinators

Dr. Taghreed Mohamed Nabil

Head of Department

Prof.Dr/Khaled M. Mazher



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	Topics	week	Intended learning outcomes of course (ILOs)			
	1 st semester		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	Respiratory System of domestic animals, poultry and fish.	1 st 2 nd 3 rd	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4
2	Lymphatic System and Immunity of domestic animals, poultry and fish.	4 th 5 th 6 th	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4
3	Endocrine System of domestic animals, poultry and fish.	7 th 8 th 9 th 10 th	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4
4	Integumentary system of domestic animals, poultry and fish.	11 th 12 th	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4
5	Sense Organs of domestic animals, poultry and fish.	13 th	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4



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