

Specification for Animal Histology course

2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Sciences (BVMS)
2.	Department offering the course	Histology

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Animal Histology
2.	Course code	201 (A) III
3.	Level	2 nd year
4.	Semester	First semester
5.	Total hours/week	3
6.	Lecture hours/week	1
7.	Practical hours/week	2

C-Professional Information

1- Course learning objectives

The course is providing the basic histological structure of different tissues and organs structure with Identification and differentiation between the different body organs.

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- a1- Identify the basic knowledge about special histology
- a2- Describe organ morphogenesis
- a3- Identify the basic information about different body organs

b- Intellectual skills

After successful completion of the course the students should be able to:

- b1- Distinguish different type of tissue organs
- b2- Differentiate between types of organs & tissues
- b3- Choose the suitable techniques for identification of different tissue organs
- b4- Judge the tissue organ identifications

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c1- Prepare tissue organs for staining

- c2- Stain tissues organs with different stains
c.3- Examine different tissue types
c.4- Identify different class of tissue

d- General and transferable skills

After successful completion of the course the students should have the following skills

- d1- Team working skill
d2- Research skill
d3- Decision making skill

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ³
B Intellectual skills	b ¹
C Professional and practical skills	c ¹
D General and transferable skills	d ^{1,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Muscular Tissue	1	2
Nervous Tissue	1	4
Lymphatic tissue and system	2	4
Digestive system	2	4
Respiratory System	2	4
Urinary System	1	4
Male and Female Genital	2	4
Endocrine System	2	2
Lymphatic System	1	2
Total	15	30

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Digestive system	a1, a2, a3	b1, b2, b3, b4	c1, c2, c3, c4	d1 to d3
Cardiovascular system	a1, a2, a3	b1, b2, b3, b4	c1, c2, c3, c4	d1 to d3
Respiratory system	a1, a2, a3	b1, b2, b3, b4	c1, c2, c3, c4	d1 to d3

Nervous system	a1, a2, a3	b1, b2, b3, b4	c1, c2, c3, c4	d1 to d4
Skin	a1, a2, a3	b1, b2, b3, b4	c1, c2, c3, c4	d1 to d4

4- Teaching and learning and assessment methods:

ILOs	Teaching and Learning method						assessment method					
	L	P&M	D&S	P	Ps	Bs	semester	midterm	oral	practical	written	
ge and understa	a1	x	x	x	x	0	x	x	x	0	x	
	a2	x	x	x	x	0	x	x	x	0	x	
	a3	x	x	x	x	0	x	x	x	0	x	
Intellectua skills	b1	x	x	x	x	x	x	x	x	0	x	
	b2	x	x	x	x	x	x	x	x	0	x	
	b3	x	x	x	x	x	x	0	x	0	x	
	b4	x	x	x	x	x	x	0	x	0	x	
al and practical	c1	0	x	0	x	x	0	x	0	x	x	0
	c2	0	x	0	x	x	0	x	0	x	x	0
	c3	0	x	0	x	x	0	x	0	x	x	0
	c4	0	x	0	x	x	0	x	0	x	x	0
Genera skills	d1	x	x	0	x	x	0	x	0	x	0	0
	d2	0	x	x	0	0	x	x	0	x	0	x
	d3	x	0	x	x	x	x	x	0	x	x	0

L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars P: Practical Ps: Problem solving, Bs: Brain storming

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes:

Fundamental veterinary histology, Edited by Staff members
Essential Laboratory Histology, Edit by Staff members

6.2- Essential books (text books)

- **Feanck Genten (2009)** Atlas of Fish histology
- **D. A. Samuelson (2007)** Veterinary Histology
- **Eroschenko, V. P. (2005):** difiore's Atlas of histology. 10th Ed. Philadelphia Baltimore New York London Buenos Aires Hong Kong Sydney Tokyo

- **Junqueira, L. C. and Carneiro J. (2003):** Basic histology. Tenth Edition. McGraw-Hill. New York Chicago San Francisco Lisbon London Madrid Mexico city New Delhi San Juan Seoul Singapore Sydney Toronto

6.3- Recommended books

- Course note.
- **Feanck Genten (2009)** Atlas of Fish histology
- **D. A. Samuelson (2007)** Veterinary Histology
- **Drury R. A. B. and Wallington E. A. (1980):-** Carleton's Histological technique. 4th ED., Oxford Unvi., Press. London, New York, Toronto.

6.4- Periodicals, Web sites, . . . etc

- Journal of Anatomy.
- Journal of Cell Ultrastructure
- Cell tissue Research
- Anatomia Histologia Embryologia
- www.ekb.eg
- <http://www.drihab1.com>
- <http://www.vt.com>

7- Facilities required for teaching and learning

- Data show
- White board
- Histology Laboratory.
- Tissue processing & staining
- Central laboratory

Course coordinator: **Prof. Dr. Ihab Mahmoud Abd El-Aal EL-Zoghby**

Head of department **Prof. Dr. Ihab Mahmoud Abd El-Aal EL-Zoghby**

Signature

Date 1/10/2019