

Specification for General Histology course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Sciences (BVMSC)
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	General Histology
2.	Course code	113(B) II
3.	Level	1 st year
4.	Semester	Second semester
5.	Total hours	3
6.	Lecture hours	1
7.	Practical hours	2

C-Professional Information

1- Course learning objectives

The course is providing the basic knowledge about histological structure of the different body tissue, understanding the fine structure of different body organs and microscopic differentiation between the different 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 poultry histology
- a2- Define the basic knowledge about organ in different birds
- a3- Identify the basic information about different body tissues

b- Intellectual skills

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

- b1- Distinguish different bird organs
- b2- Choose the suitable techniques for identification of bird organs
- b3- Judge the tissue identifications

c- Professional and practical skills

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

- c1- Prepare tissue organ for staining
- c2- Stain tissues with different stains
- c.3- Examine different tissue types of bird organs
- c.4- Identify different class of tissue of bird organs

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
Epithelial tissues	2	4
Connective tissues	2	2
Muscular	1	2
Digestive system	2	8
Cardiovascular system	2	2
Respiratory system	2	4
Nervous system	2	4
Skin	2	4
Total hours	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
Muscular Tissue	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Nervous Tissue	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Lymphatic tissue and system	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Digestive system	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Respiratory System	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Urinary System	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Male and Female Genital	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Endocrine System	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
Lymphatic System	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3

Feather and Skin	a1, a2, a3	b1, b2, b3	c1, c2, c3, c4	d1 to d3
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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
General understanding	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
Practical	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
Practical	c1	0	x	0	x	x	0	x	0	x	0
	c2	0	x	0	x	x	0	x	0	x	0
	c3	0	x	0	x	x	0	x	0	x	0
	c4	0	x	0	x	x	0	x	0	x	0
General skills	d1	x	x	0	x	x	0	x	0	x	0
	d2	0	x	x	0	0	x	0	x	0	x
	d3	x	0	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)

- **D. F. Paulsen (2010)** histology and cell biology
- **D. A. Samuelson (2007)** Veterinary Histology
- **L. p. Gartner (2007)** color text book of 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.

- **L. p. Gartner (2007)** color text book of 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

1. Data show
2. White board
3. Histology Laboratory.
4. Tissue processing & staining
5. 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