

## Specification for Physiology course 2019/2020

### A-Affiliation

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

**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	Physiology
2.	Course code	210 ( B) IV
3.	Level	2 <sup>nd</sup> 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 provides the students with basic information about cell physiology which serves as the basis for body function and mechanisms that regulate the reproduction and lactation, digestive system, avian and fish physiology

#### 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 reproductive patterns and estrous cycle in different animals and hormones controlling reproduction
- a2- Describe the function of digestive system and realize mechanisms control its functions
- a3- Summarize the physiological similarities and differences in mammals, avian and fish

##### b- Intellectual skills

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

- b1- Correlate the hormonal function and reproduction and lactation
- b2- Interpret the physiological effect of digestive system
- b3- Discuss the physiological differences in mammals, avian and fish

##### c- Professional and practical skills

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

- c1- Perform vaginal smear and identify different phases of estrous cycle.

- c2- Apply pregnancy diagnosis
- c3- Examine semen samples
- c4- Examine ruminal juice
- c5- Calculate RBCs and WBCs in avian and fish

#### d- General and transferable skills

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

- d1- Team working skills
- d2- Research skills
- d3- Report writing skills

### 3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A <b>Knowledge and understanding</b>	a <sup>4</sup>
B <b>Intellectual skills</b>	b <sup>1</sup>
C <b>Professional and practical skills</b>	c <sup>4</sup>
D <b>General and transferable skills</b>	d <sup>1,6</sup>

#### 3.1- Course contents:

Topic	Lecture hours	Practical hours
<b>Physiology of Reproduction and lactation</b>	5	9
<b>Physiology of the Digestive System</b>	4	9
<b>Avian Physiology</b>	3	6
<b>Fish Physiology</b>	3	6
<b>Total hours</b>	<b>15</b>	<b>30</b>

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
<b>Physiology of Reproduction and lactation</b>	a1	b1	c1,c2,c3	d1 to d3
<b>Physiology of the Digestive System</b>	,a2	b2	c4	d1 to d3
<b>Avian Physiology</b>	a3	b3	c5	d1 to d3
<b>Fish Physiology</b>	a3	b3	c5	d1 to d3

### 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
Knowledge and understanding	a1	x	x	x	x	x	x	x	x	0	x
	a2	x	x	x	x	x	x	0	x	0	x
	a3	x	x	x	x	x	x	0	x	0	x
Qualification	b1	x	x	x	x	x	x	x	x	0	x
	b2	x	x	x	x	x	x	0	x	0	x
	b3	x	x	x	x	x	x	0	x	0	x
Skill and practical	c1	0	x	x	x	x	x	0	x	x	0
	c2	0	x	x	x	x	x	0	x	x	0
	c3	0	x	x	x	x	x	0	x	x	0
	c4	0	x	x	x	x	x	0	x	x	0
	c5	0	x	x	x	x	x	0	x	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	0	0	0	x	0	0	x	0	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 <sup>th</sup> week	15
Practical exam	14 <sup>th</sup> week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

### 6- List of references

#### 6.1- Course notes:

Veterinary Physiology, Edited by physiology staff members

#### 6.2- Essential books (text books)

- Larry R. Engelking (2015) Textbook of veterinary physiological chemistry
- Gary A. Wesemeyer (1996) Physiology of Fish In Intensive Culture Systems
- R.J. Etches (1996) Reproduction In Poultry
- Guyton, A. (1991) Text book of Medical physiology. 8th, W.B. Saundero Company.

#### 6.3- Recommended books

- Course note..
- Gary A. Wesemeyer (1996) Physiology of Fish In Intensive Culture Systems
- R.J. Etches (1996) Reproduction In Poultry

- Guyton, A. (1991) Text book of Medical physiology. 8th, W.B. Saundero Company.

#### 6.4- Periodicals, Web sites, . . . etc

- Veterinary Journal
- Poultry Science
- Veterinary Record
- [www.ekb.eg](http://www.ekb.eg)

#### 7- Facilities required for teaching and learning

- Data show.
- White board
- Physiology laboratory.
- Haemocytometer

**Course coordinator: Prof. Dr. Randa Ismail.**

**Head of department Prof. Dr. Randa Ismail**

**Signature .....**

**Date 1/10/2019**

