

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	107(A) I
3.	Level	1 st year
4.	Semester	First semester
5.	Total hours	4
6.	Lecture hours	2
7.	Practical hours	2

C-Professional Information

1- Course learning objectives

The course provides the students with the basic physiological and biochemical information about the cell structure and functions, Blood, body fluids and respiratory system

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 cell constituent and their function
- a2-Identify the blood constituent and their function
- a3-Mention the body fluid and their function
- a4-Describe the respiratory system and their function

b- Intellectual skills

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

- b1- Correlate the cellular function and dysfunction
- b2- Imply dysfunction related to blood constituent
- b3-Discuss the role of body fluid in the body ecosystem
- b4-Interpret the problem related to respiratory system

c- Professional and practical skills

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

- c1- Perform collection of blood samples from different species of domestic animals.
- c2- Calculate and count RBCs & WBCs

- c.3 Measure the physiological parameter related to body fluid
c.4- Measure the physiological parameter related to respiratory system

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 Knowledge and understanding	a ⁴
B Intellectual skills	b ¹
C Professional and practical skills	c ⁴
D General and transferable skills	d ¹

3.1- Course contents:

Topic	Lecture hours	Practical hours
Cell physiology	8	-
Physiology of blood and body fluids	12	24
Physiology of respiratory system	10	6
Total hours	30	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
Cell physiology	a1	b1	-	d1 to d3
Physiology of blood and body fluids	a2,a3	b2,b3	c1,c2,c3	d1 to d3
Physiology of respiratory system	a4	b4	c4	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
and understanding	a1	x	x	x	x	x	x	x	x	0	x
	a2	x	x	x	x	x	x	x	x	0	x
	a3	x	x	x	x	x	x	x	x	0	x
	a4	x	x	x	x	x	x	x	0	x	0
lectu	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	x	0	x	0	x
	b4	x	x	x	x	x	x	x	0	x	0	x
al and practical	c1	0	x	x	x	x	x	x	0	x	x	0
	c2	0	x	x	x	x	x	x	0	x	x	0
	c3	0	x	x	x	x	x	x	0	x	x	0
Genera skills	C4	0	x	x	x	x	x	x	0	x	x	0
	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	0	0	0	x	0	0	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	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:

Veterinary Physiology, Edited by physiology staff members

6.2- Essential books (text books)

- J. W. Harvey (2012) Veterinary hematology
- K. S. Nageswari (2007) practical manual of haematology
- Guyton, A. (1991) Text book of Medical physiology. 8th, W.B. Saundero Company.

6.3- Recommended books

- Course note..
- K. S. Nageswari (2007) practical manual of haematology
- Guyton, A. (1991) Text book of Medical physiology. 8th, W.B. Saundero Company.

6.4- Periodicals, Web sites, . . . etc

- www.ekb.eg

7- Facilities required for teaching and learning

- Data show/White board
- haemocytometer.
- Microscopes.
- ECG

Course coordinator: Prof. Dr. Randa Ismail.

Head of department Prof. Dr. Randa Ismail

Signature

Date 1/10/2019