

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	203 (A) III
3.	Level	2 nd 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 basic information about physiology of the Central nervous system, Autonomic nervous system, Endocrine system and cardiovascular 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 different endocrine organs, hormones and their mechanism of action
- a2- Mention the function of cardiovascular system and realize the different properties of cardiac muscle
- a3- Summarize the mechanism by which CNS and ANS work
- a4-Identify reflex arc, reflex action and different type of reflexes

b- Intellectual skills

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

- b1- Correlate the hormonal function and certain types of production
- b2- Imply the mechanism of cardiovascular system parameters
- b3-Discuss the integrated function of the CNS and autonomic nervous systems

c- Professional and practical skills

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

- c1- Perform dissection of the frog's heart to understand and study properties of cardiac muscles.
c2- Measure the blood pressure and pulse rate
c3- investigate endocrine hormonal action
c4- Determine the reflex action of nerves

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 ^{1,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Physiology of the Autonomic Nervous System	6	6
Physiology of the Central Nervous System	8	8
Physiology of the Cardiovascular System	8	8
Physiology of the Endocrine System	8	8
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
Physiology of the Autonomic Nervous System	a3,a4	b3	c4	d1 to d3
Physiology of the Central Nervous System	a3,a4	b3	c4	d1 to d3
Physiology of the Cardiovascular System	a2	b2	c1,c2	d1 to d3

Physiology of the Endocrine System	a1	b1	c3	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	
and understandi ual	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	X
ual	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
al 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	
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	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 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:

Veterinary Physiology, Edited by physiology staff members

6.2- Essential books (text books)

- Larry R. Engelking (2015) Textbook of veterinary physiological chemistry
- J. W. Harvey (2012) Veterinary hematology
- David R. Gross (2009) Animal models in cardiovascular research
- Ruchebusch, Y., Phaneuf, I. and Dunlop, R (1991) Physiology of small and large Animals. B.C. Decker, Inc, Philadelphia, Hamilton
- Guyton, A. (1991) Text book of Medical physiology. 8th, W.B. Saunderson Company.

6.3- Recommended books

- Course note..
- David R. Gross (2009) Animal models in cardiovascular research
- 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
- Physiology laboratory.
- kymograph
- ECG

Course coordinator: Prof. Dr. Randa Ismail.

Head of department Prof. Dr. Randa Ismail

Signature

Date 1/10/2019

