



**Physiology (Special)
Course Specification 2014/2015**

1-Basic information

Course Code:	214 & 222
Course title :	Physiology (Special)
Academic year:	2 nd year (1 st & 2 nd semesters)
Program title:	Bachelor of Veterinary Medical Sciences
Contact hours/week/semester:	Lecture: 2 hours/week/semester Practical: 2 hours/week/semester

2-Professional information

1- Overall aims of course

The course in special Physiology has its overall aim; the establishment of knowledge of normal functions of different animal systems and to introduce students to well-established and current concepts in physiological research. Practical classes are designed to assist students to develop certain manipulative skills, to handle experimental animals, to compare between functions of systems in different animal species, and to analyze these using a variety of physiological techniques, and supplement the lecture course.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

By the end of studying the course, the student should be able to:-

- a1- Define the different body system functions in different animals species.
- a2- Discuss the different physiological expressions and aspects
- a3- Explain the relationship between different system functions

b-Intellectual skills

By the end of studying the course, the student should be able to:-

- b1- Interpret the reference values of each body systems functions, gives the chance to

diagnose the abnormal or diseased animals and increase their productivity and reproductively.

c-Professional and practical skills

By the end of studying the course, the student should be able to:-

- c1- Apply the methods of collection and storage of different body fluid samples.
- c2- Practice the different physiological experiments.
- c3- Discover the different body system functions and secretions.

d-General and transferable skill

By the end of studying the course, the student should be able to:-

- d1- Writing and presenting the essays concerning important applied topics in physiology.
- d2- Improve the team work.

3-Topics and contents

First semester

Topic	No. of hours
	Lectures
Endocrine system	10
Respiratory system	6
Muscle & nerve	6
Cardiovascular system	8
Total	30
Second semester	
Digestive system	10
Urinary system	2
Reproductive system	10
Body temperature & metabolism	4
Comparative physiology	4
Total	30
First semester	
practical	
Endocrine system	10
Respiratory system	4
Muscle & nerve	10
Cardiovascular system	6
Total	30
Second semester	
Digestive system	8
Urinary system	4
Reproductive system	10
Body temperature & metabolism	4

Comparative physiology	4
Total	30

4- Teaching and learning methods

- 4.1- Lectures for gaining knowledge and understanding.
- 4.2- Writing a review paper to gain the skills of self-learning and presentation.
- 4.3- Practical sessions for the students to gain practical skills.
- 4.4- Analyze the results and reach specific conclusion.

5-Student assessment

5.1. Assessments methods

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U (a)	I.S (b)	P&P.S (c)	G.S (d)
Student activities and periodical exam exams	a1, a2, a3	b1	--	d1, d2
	A1, a2, a3	b1		
Practical exam	--	--	c1, c2, c3	--
Written exam	a1, a2, a3	b1	--	--
Oral exam	a2, a3	b1	--	--

2-Assessment schedules/semester

Assessments methods	Time of Assessments
Periodical exams	8 th Week
Practical exam	16 th Week
Written exam	16 th Week
Oral exam	16 th Week

5.3-Weight of assessments

Assessment	Allocated Mark		
	1st term	2nd term	Total
Student activities and periodical exam exams	5	5	10
Practical exam	10	10	20

Written exam	25	25	50
Oral exam	10	10	20
Total	50	50	100

6- List of references

6.1. Departmental Notes

Handbook of Veterinary Physiology. *By* (Department staff)

6.2. Essential books

Textbook of Veterinary Physiology James G. Cunningham, Bradley G. Klein, Elsevier.2007

Textbook of Medical Physiology (Guyton), 12ed, (2010).

Dukes' Physiology of Domestic Animals, 12th Edition, William O. Reece (2010).

6.4. Journals , Websitesetc

Journals

- 1- J. of Applied physiology
- 2-J. of veterinary physiology
- 3-J. of comparative Biochemistry & Physiology

Course coordinator

Head of department

Prof. Dr. / Said Ibrahim Fathalla

Prof. Dr. / Shabaan Gadallah

Matrix alignment of the course topics and ILOs

FIRST SEMESTER														
Topic	No. of hours /week		Total hours / semester	Hours for lect.	Hours for pract.	ILOs				T&L methods				
	Lecture	Practica _1				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	Lecture	Practica _1	Self& active leaning	Audio- visual	Case study
Endocrine system	2	2	18	10	8	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	
Respiratory system			13	6	7	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	
Muscle & nerve			13	6	7	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	
Cardiovascular system			16	8	8	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	

Matrix alignment of the course topics and ILOs

SECOND SEMESTER														
Topic	No. of hours /week		Total hours / semester	Hours for lect.	Hours for pract.	ILOs				T&L methods				
	Lecture	Practica _				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	Lecture	Practica _	Self& active leaning	Audio- visual	Case study
Digestive System	2	2	18	10	8	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	
Urinary System			8	2	6	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	
Reproductive System			18	10	8	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	
Body temperature and metabolism			8	4	4	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	
Comparative physiology			8	4	4	a1,a2, a3	b1	c1,c2, c3	d1,d2	√	√	√	√	