Damanhur University
Faculty of Veterinary Medicine

Course Specifications

Faculty: Veterinary Medicine

Department: Physiology

General Considerations

- Program on which the course is given: Bachelor of Veterinary Medicine (BVS).
- Major or minor element of program: Major.
- Department offering the Program: Faculty of Veterinary Medicine.
- Department offering the course: Physiology.
- Date of specification approval:

A. Basic Information

- Title code: 2BPHY
- Lecture Tutorial: 5 hours/week.
- Practical Session: 3 hours/week.
- Total: 120 hours/semester (15 weeks).
- Academic year 2012/2013 second year / Second semester

B. Professional Information

1. Overall Aims of The Course:

To familiarize students with the basic information about the overall body functions and how the different body systems act in harmony with each other to keep the body in homeostasis.

2. Intended Learning Outcomes (ILOs):

By the end of this course, students should be able to recognize:

a. ***Knowledge and Understanding:***

a.1. Understand the principle of animal physiology

a.2. Understand what mean by homeostasis

a.3. understand the basic function of different body organs

b. ***Intellectual Skills:***

b.1. The ability to analyze the diversity of knowledge in the term of function of cells.

b.2. The ability to distinguish with evidence and confidence how different functions of the body act in harmony and homeostasis.

B.3.The ability to analyze and understand the relation between different body organs.

c. ***Professional and Practical Skills:***

c.1. Recognize the different technique suitable for studying the different cases.
c.2. differentiate between different species of animal using different physiological test
c.2. Recognize the normal values of different body parameters and distinguish between the normal an abnormal samples.

d. ***General and Transferable Skills:***

d.1. The ability to use simple word and IT skills (i.e., data processing, software, internet, and multimedia) and the library to find information.
d.2. The ability to be self-motivated learners and responsive to feedback.
d.3. Working in team (i.e., sharing presentations and discussions and solving problem).
d.4. Enhancement of research capability through working in independent projects.

3. Contents:

3.1. Lecture Contents:

Lecture Topics		Hours
1	***Introduction in animal physiology***	5 hrs
2	***Endocrinology***	5 hrs
3	***Endocrinology***	5 hrs
4	***Endocrinology***	5 hrs
5	***Male reproduction***	5 hrs
6	***Female reproduction***	5 hrs
7	***Female reproduction***	5 hrs
8	***Nerve and muscle Physiology***	5 hrs
9	***Nerve and muscle Physiology***	5 hrs
10	***Digestion***	5 hrs
11	***Digestion***	5 hrs
12	***Digestion***	5 hrs
13	***Digestion***	5 hrs
14	***Energy& metabolism***	5 hrs
15	***Energy& metabolism***	5 hrs
Total		**75hrs**

3.2. Laboratory Contents:

Laboratory Topics		Hours
1	***Introduction on laboratory physiology***	3hrs

2	***Handling the equipments in the laboratory***	3hrs
3	***Semen evaluation***	3hrs
4	***Semen evaluation***	3hrs
5	***Pregnancy diagnosis***	3hrs
6	***Pregnancy diagnosis***	3hrs
7	***Detection of estrus phase using vaginal smear***	3hrs
8	***Castration***	3hrs
9	***Overectomy***	3hrs
10	***Nerve and muscle physiology***	3hrs
11	***Nerve and muscle physiology***	3hrs
12	***Nerve and muscle physiology***	3hrs
13	***Nerve and muscle physiology***	3hrs
14	***Nerve and muscle physiology***	3hrs
15	***Nerve and muscle physiology***	3hrs
Total		**45hrs**

4. Teaching and Learning Methods:

4.1.Lectures

4.2.Practical (tutor presentation followed by students' small group sessions).

4.3.Independent (Laboratory and home assignments supervised by tutor):

- **a)** Writing reports/assignments.
- **b)** Preparation of blood films.
- **c)** Preparation of slides.
- **d)** Group discussion.

4.4 Computer Courseware: For independent student can be accessed at the education centre: CLIVE standalone programs and any other recently developed web-based courseware.

Methods for disabled students:
No special arrangements are available now; however those students can consult our staff for help.

5. Students Assignment:

5.1. Assignment Methods:

- **a)** Mid and final term written examinations to assess knowledge and understanding.

b) Periodical semester activities to assess general and transferable skills.
c) Periodical examinations to assess professional and practical skills.
d) Oral examination to assess intellectual skills, understanding of topics and ways of thinking in resolving problems.

5.2.Assessment Schedule:

- Assessment 1: Midterm examination.....6th week.
- Assessment 2: Final examination (practical).....15th week.
- Assessment 3: Final examination (oral).....15th week.
- Assessment 4: Final examination (written).....15th week.

5.3.Writing of Assessments:

a) *Semester formative work:*
   1. Midterm examination.....10%
   2. Home and laboratory periodical assignments.....10%

b) *Final term examinations:*
   1. Written examination.....50%
   2. Oral examination.....15%
   3. Practical examination.....15%

c) *Other types of assessment*.....0%

Total.....100%

6. List of References:

6.1. Course Notes (lecture and practical notes): Basic Veterinary Physiology.
6.2. Essential Text Books: Textbook of hematology(1998).
6.3. Recommended Books: Text book of animal Physiology
6.4. Web site: http://www.Physiology.to/links.html

7. Facilities Required for Teaching and Learning:

7.1. For Lecture: A large hall equipped with white board, data show and computer.
7.2. For Laboratory sessions: Laboratory room with mono and binuclear microscope, centrifuges, distilator,….. .
7.3. For small group discussions (75 students): Convenient hall equipped with white board, computer and video projector.
7.4. Digital library, Internet and networking connections for easy access of online course materials and the recommended websites by our staff.

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Course Coordinator — *Dr/Ismail Abo-Ghanema*

Head of Department — *Dr/ Ismail Abo-Ghanema*