

## Course Specification

### A- Basic Information

<b>Programme(s) on which the course is given:</b>	MSc of General Physiology
<b>Department responsible for offering the course:</b>	Zoology
<b>Department responsible for teaching the course:</b>	Zoology
<b>Academic year:</b>	2012-2013
<b>Course title and code:</b>	Adaptation Physiology Z6130
<b>Contact hours (credit hours):</b>	Lecture: 2 hrs      Practical: 2hrs Total: 3 hrs
<b>Course coordinator:</b>	Prof. M. F. F. Bayomy

### B- Professional Information

The course aim and intended learning outcomes are based on that mentioned in the programme specifications, with more course-related specific details.

**1- Overall Aims of Course: By the end of this course, the student should be able to**

- \* Outline the body functions under different conditions.
- \* List the different mechanisms of regulation.
- \* Describe the different mechanisms of adaptation.

**2- Intended Learning Outcomes of Course (ILOs):**

**a- Knowledge and Understanding:**

- a1- List the different mechanisms of osmoregulation.
- a2- Illustrate the different mechanisms of thermoregulation.
- a3- Know adaptation physiology of animals.

**b- Intellectual Skills:**

- b1- Measure the student capability to identify the different mechanisms of thermoregulation.
- b2- Define the different mechanisms of osmoregulation.

**c- Professional and Practical Skills:**

- c1- Demonstrate the different mechanisms of adaptation.
- c2- Determine the ecological adaptation.

**d- General and Transferable Skills:**

- d1- Measure the scientific writing ability.

d2- Utilize the oral communication skills.

d3- Use the appropriate technology such as (Internet) for scientific research.

### 3- Course Contents

Topic	No. of hours	Tutorial/ Practical	Lecture
Scope of adaptation	2	1	1
Osmoregulatory mechanisms	2	2	1
Thermoregulatory mechanisms	4	2	2
Adaptation to Photoperiod	4	2	2
Special effects on systems	4	2	2
Integration mechanisms	4	2	2
Behavior and adaptation	4	2	2

#### 4- Teaching and Learning Methods

- Lectures.
- Practical sessions.
- Writing essays.
- Oral presentation.

### 5- Student Assessment Methods

- Essays
- Oral exams
- Written exams.
- Practical exams.
- Quizzes.

#### Assessment schedule

Assessment 1	Essay	Week 1 essay/term
Assessment 2	Oral exam	Twice/term
Assessment 3	Mid-term exams	Week 7
Assessment 4	Semester Work Exam	Week 10
Assessment 5	Final term exam	Week 14

#### Weighting of assessments

Mid-term examination	20%
Final-term examination	40%
Oral examination	10%
Practical examination	20%
Semester work	10%
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Total	100%

## **6- List of references**

### **6.1- Course Notes:**

- \* Lecture notes.

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

- \* Adaptation Physiology.

### **6.3- Recommended books:**

- \* Acclimation Physiology

### **6.4- Periodicals, Web sites....Etc:**

- \* Journal of Immunology.

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

- \* Dark room equipped with overhead and LCD projector.
- \* Librarian facilities.
- \* Computers with internet Access.

***Course coordinator:*** Prof. M. F. F. Bayomy

***Head of Department:*** Prof. Saber Sakr

***Date:*** January / 2013