

Course Specification

A- Basic Information

Programme(s) on which the course is given:	MSc of General Physiology
Department responsible for offering the course:	Zoology
Department responsible for teaching the course:	Zoology
Academic year:	2012-2013
Course title and code:	Physiology of Respiratory system Z6121
Contact hours (credit hours):	Lecture: 2 hrs Practical: 2hrs Total: 3 hrs
Course coordinator:	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

- * Describe the physiology of respiratory system.
- * List the main factors that affecting the respiratory system.

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

- a1- Define the structure and function of the respiratory system.
- a2- Identify the factors affecting the respiratory system.

b- Intellectual Skills:

- b1- Measure the student capability to identify the mechanisms of respiration in animals.
- b2- List the different mechanisms for gas exchange.

c- Professional and Practical Skills:

- c1- Demonstrate skills in identification the mechanisms of respiration in organism.
- c2- Distinguish the different mechanisms for gas exchange.

d- General and Transferable Skills:

- d1- Measure the scientific writing ability.
- d2- Utilize the oral communication skills.
- d3- Use appropriate lab equipment.
- d4- Use the appropriate technology such as (Internet) for scientific research.

3- Course Contents

Topic	No. of hours	Tutorial/ Practical	Lecture
General introduction about respiration.	3	2	1
Structures and functions of respiratory system.	4	2	2
Ventilation and its mechanisms	4	2	2
Blood gas transport	3	2	1
Central mechanisms in respiratory control	4	2	2
Airway and lung receptors, reflexes and autonomic regulation	3	2	1
Acid-Base regulation	4	2	2
Revision	3	2	1

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)

- * Text book of Physiology.

6.3- Recommended books:

- * Essentials of Physiology.
- * General Physiology

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

- * Comparative Physiology.

7- Facilities required for teaching and learning

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

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

Head of Department: Prof. Saber Sakr

Date: 15/1/ 2013

