

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 Nerves System Z6115
Contact hours (credit hours):	Lecture: 2 hrs Practical: 0hrs Total: 2 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

- * List some important definitions in the field of neurology.
- * Outline communication between cells.
- * List different mechanisms of actions of neurotransmitters.

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

- a1- Define the theories explaining communication between cells.
- a2- List the types of neurotransmitters and their mechanisms.
- a3- Identify the definitions in the field of neurology.

b- Intellectual Skills:

- b1- Measure the student capability to identify the definitions in the field of neurology.
- b2- Define the types of neurotransmitters and their mechanisms..

c- Professional and Practical Skills:

- c1- Demonstrate skills in identification of neurotransmission.
- c2- Distinguish between different neurotransmitters functions.

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
the nerves system (introduction)	2	1	1
Brain structure and function	4	2	2
Central nerves system	4	1	1
Peripheral nerves system	2	2	2
Characterization of neural receptors.	4	2	2
Neurotransmitters	4	2	2
Chemical receptors in the brain and receptor criteria.	2	1	1
Neurotransmitters and their relation to synaptic transmission	2	1	1

4- Teaching and Learning Methods

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

5- Student Assessment Methods

- Essays
- Oral exms
- 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%
<u>Semester work</u>	<u>10%</u>
Total	100%

6- List of references

1. Course Notes

- 1- Internet and library material.
- 2- Handouts given separately during the course span.

• Essential Books (Text books):

1. Physiology (Gyton).

• Recommended Books

1. General Physiology.
2. Human Physiology

2. Periodicals, web sites,....,etc

3. American Journal of Physiology.

7- Facilities required for teaching and learning

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

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

Head of Department: Prof. Saber Sakr

Date: 15/1/ 2013