A-Basic Information

Programme(s) on which the course is	M.Sc. of Fish Biology & Aquatic		
given:	Ecology		
Depaetment responsible for offering	Zoology		
the course:			
Depaetment responsible for teaching	Zoology		
the course:			
Academic year:	2012-2013		
Course title and code:	Fish Physiology Z6114		
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

- * Outline the coordination of the structure and function of this system in the fishes.
- * Identify the different actions of hormonal secretion related to these glands in the fishes.

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

- al- Define the types and classification of glands in the fishes.
- a2- List the types of hormones that secreted from these glands in the fishes.
- a3- Identify the structure and function of the reproductive system in the fishes.

b-Intellectual Skills:

- b1- Measure the student capability to identify the different endocrine glands and its related secretion.
- b2- Define the types of hormones and their mechanisms in the fishes.
- b3- Demonstrate structure and function of the reproductive system in the fishes.

c- Professional and Practical Skills:

c1- Demonstrate skills in identification, characterization of different glands and their situations in the fishes.

c2- Distinguish between different hormones structure and functions in the fishes.

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		Tutorial/ Practical	Lecture
Endocrine System	4	2	2
Types of glands	4	2	2
Types of Actions	6	3	1
Pituitary Gland	2	1	2
Thyroid and Parathyroid	2	1	2
Adrenal Gland	2	1	2
Gonadal hormones and Other Glands	2	1	4

4- Teaching and Learning Methods

- •Lectures.
- Practical sessions.
- Research assignment.
- •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%
Semester work 10%
Total 100%

6- List of references

1. Course Notes

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

2. Essential Books (Text books):

a. Fish endocrinology (A. J. Matty).

3. Periodicals, web sites,...,etc

1. American Journal of Physiology.

7- Facilities required for teaching and learning

- *Lecture room provided with a white board.
- * Dark room equipped with overhead and slide projectors, data show.
- * Lab provided with suitable equipments.

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

Head of Department: Prof. Saber Sakr