

A- Basic Information

Programme(s) on which the course is given:	MSc of Fish Biology and Aquatic Ecology
Department responsible for offering the course:	Zoology
Department responsible for teaching the course:	Zoology
Academic year:	2012-2013
Course title and code:	Fish Taxonomy Z684
Contact hours (credit hours):	Lecture: 2 hrs Practical: 2hrs Total: 3 hrs
Course coordinator:	Prof. Dr. Alaa Alnenaie

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 concepts of fish taxonomy.
- * Identify the principles of fish classification using a systematic key.
- * Demonstrate the distribution, ecology and life history of fishes.
- * Identify the classification of fishes with specific parameters (habitat, feeding, etc).
- * Outline the fishes impact on ecosystems, management of undesirable fishes.
- * Describe the systematic, anatomy, physiology, life history and ecology of freshwater and marine fishes.
- * Enumerate the importance of aquatic living resources, current world fisheries and their future.
- *Underline the biological principles of fisheries conservation and management.

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

- a1- Illustrate the different methods of classification of fishes.
- a2- Summarize the history of successful and unsuccessful fishery management systems.
- a3- Identify a phylogenetic approach used to look at major primitive to advanced fish groups.
- a4- Memorize the general biology background and learn about the diverse groups of fish.
- a5- State the development and implantation of fisheries policy.

b- Intellectual Skills:

- b1- Classify the different types of fish cultures and the importance of fish production.
- b2- Compare different methods used in fish classification.
- b3- Identify local freshwater fishes, as well as representative fish orders from around the world.
- b4- Classify geographical landmarks important to fish.

c- Professional and Practical Skills:

- c1- Classify the different types of fish cultures and the importance of fish production.
- c2- Collect the lab and field data used in fish classification.
- c3- Perform dissection of preserved specimens and study the anatomy of dry skeletons and indentify major fish groups.
- c4- Discriminate local freshwater fishes, as well as representative fish orders from around the world.

d- General and Transferable Skills:

- d1- Apply the computer to identify different fish cultures.
- d2- Diagnose similarities of fish morphology using internet for scientific research.

3- Teaching and Learning Methods

- Lectures.
- Research assignment.
- Lab sessions.

4- Student Assessment Methods

- Written Exams.
- Oral exams
- Reports.

Assessment schedule

Assessment 1	Assignment report	Weekly
Assessment 2	Mid-term exams	Week 7
Assessment 3	Oral exams	Week 10
Assessment 4	Final term exams	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

0. Course Notes

Notes on fish taxonomy.

1. Essential Books (Text books):

General Ichthyology.

Fish taxonomy.

2. Internet web sites.

7- Facilities required for teaching and learning

- * Data show.
- * Slide and over-head projector.
- * Librarian facilities.
- * Computers with internet Access.
- * Student lab provided with preserved samples.

Course coordinator: Prof. Alaa Alnenaai

Head of Department: Prof. Saber Sakr

