A-Basic Information

Programme(s) on which the course is	MSc of Fish Biology and 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:	Environmental Science Z671	
Contact hours (credit hours):	Lecture: 2 hrs Practical: 2hrs	
	Total: 3 hrs	
Course coordinator:	Prof. Mansour Galal	

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

- * Identify the concepts of environmental science.
- * Outline the environmental science's role in scientific issues and relevant applications of environmental science in society.
- * Develop scientific inquiry and investigative skills.
- * Improve scientific analytical thinking skills in an environmental science context.
- * Use technology, equipment and materials safely in practical scientific activities.
- * Develop problem solving and practical fieldwork skills in an environmental science context.

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

- al- Describe of various kinds of ecosystems.
- a2- List different abiotic environmental factors.
- a3- Illustrate various types of diversity of ecosystems.

a4- Outline the meaning of wild life management.

b- Intellectual Skills:

- b1- Build the ability to differentiate between different types of environments and various ecological tools and techniques.
- b2- Evaluate the ability of different organisms to accommodate with different ecological factors.

c- Professional and Practical Skills:

- c1- Perform investigations related to the living environment.
- c2- Explore the environmental issues related to ecosystems and interrelationships.
- c3- Explore the sustainability issues related to ecosystems and biodiversity.

d-General and Transferable Skills:

- d1- Use internet and data show to present different deserts and their inhabitats.
- d2- Improve writinc up and oral communication skills.

3- Course Contents

Торіс	No. of hours	Tutorial/ Practical	Lecture
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Preliminary of Ecology.	4		2
Biotic components of different ecosystems.	3	1	1
Abiotic components of different ecosystems.	2		1
Dynamics of ecosystem.	2		1
Aquatic ecosystem (Freshwater, marine and man-made ecosystems)	5	1	2
Pollution and factors affecting pollution.	4		2
Conservation of natural resources.	3	1	1
Wild life management.	5	1	2

4- Teaching and Learning Methods

- •Lectures.
- •Research assignment.
- •Oral Presentation.

5- Student Assessment Methods

- •Written Exams.
- •Reports
- •Oral exams.
- •Oral Presentations.
- •Practical exams.

Assessment schedule

- Assessment 2 Mid-term exams
- Assessment 3 Final term exam Week 14

Week 7

Weighting of assessments

Mid-term examination	20%
Final-term examination	40%
Oral examination	10%

Practical examination	20%
Reports	10%
Total	100%

6- List of references

1. Course Notes

Related websites using internet facilities in the college.

2. Essential Books (Text books):

- Environmental Biology.
- Environmental Pollution.

3. Periodicals, Web sites,etc.

- Biological abstracts.
- Aqualine.
- Science direct.

7- Facilities required for teaching and learning

- * Data show.
- * Slide and over-head projector.
- * Librarian facilities.
- * Computers with internet Access.

Course coordinator: Prof. Mansour Galal *Head of Department:* Prof. Saber Sakr