

Course Specification

University: Menoufiya

Faculty: Science

Course Specifications:

Programme (s) on Which the Course is Given: M.Sc. Zoology (protozoa and invertebrates)

Major or Minor Element of Programmes: Minor

Department offering the Program: Zoology

Department offering the Course: Zoology

Academic Year/ Level: postgraduate

Date of Specification Approval: 2012

A- Basic Information

Title: Advanced Ecology of Protozoa

Code: Z632

Credit Hours: 3

Lecture: 2

Tutorial:0

Practical: 2

Total: 3

B- Professional Information

1- Overall Aims of the Course: At the end of this course, the student should be able to

- * Describe the various protozoan habitats.
- * Summarize and understand the basic characteristics of the protozoan ecosystem.
- * Enumerate the effects of various factors influencing distribution and abundance of protozoa.

2- Intended Learning Outcomes of Course (ILOs):

a Knowledge and Understanding:

- a1- Distinguish between different protozoan groups in different habitats.
- a2- Illustrate the ecological mechanisms sustaining the eco-succession.
- a3- Suggest of the importance of protozoa in balancing the ecosystem.

b- Intellectual Skills:

- b1- Evaluate the student capability to identify and detect ecologically the protozoa.
- b2- Measure the student's ability to carry out how to quantify the ecological importance of these organisms..
- b3- Discuss various protozoan interactions with other organisms.

c- Professional and Practical Skills:

- c1- Distinguish the ecological parameters affecting protozoan distribution.
- c2-Diagnose certain protozoan groups and/ or individuals which may be used as bioindicators in field..

d- General and transferable Skills:

- d1- Locate internet programmes and on-line data to show various protozoan aspects.
- d2- Improve writing structural reports or essay and oral communication abilities beside problem solving.
- d3- Present reports in seminars and other group meeting.
- d4- Find effective and realistic solutions for work problems via analysis and good expectations.

3- Contents

Topic	No. of Hours	Lecture	Tutorial / Practical
Plankton	2	1x2	
Protozoa and Ecology	4	2	
Protozoan Habitat	4	2	
Vital Protozoan Groups	4	2	
Protozoan Abundance	2	1	
Protozoan Distribution	2	1	
Applied Protozoology	6	3	

4- Teaching and Learning methods

- 4.1- Lectures
- 4.2-.Research assignment
- 4.3- Oral Presentation.
- 4.4- Lab. Demonstrations.

5- Student assessment methods

- 5.1-Report to collection of course material.
- 5.2- Mid-term to assess mid term performance.
- 5.3-Final exam to assess final performance.

Assessment schedule

- Assessment 1 Report Week every two weeks
- Assessment 3 midterm Week 7th week of the term
- Assessment 4 final exam Week 14th week of the term.

Weighting of assessments

Mid-term examination	20%
Final-term examination	60%
Oral examination	5%
Semester work	10%
Other type of assessment	5%

Total	100%

6- List of references

- 6.1- *Course notes**
* Related websites.

- 6.2- Recommended books**
*Protozoan Ecology.
* Protozoa and other protists.

7- Facilities required for teaching and learning

- * Data show.
- * Slide and over-head projector.
- * Librarian facilities.

Course coordinator: Prof. Dr. Mansour Galal Ibrahim

Head of Department: Prof. Dr. Saber Sakr

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