



Department of Biology

College of Education

University of Salahaddin

Subject: Phycology

Course Book – (Year 3)

Lecturer's name: Khasro A. Ismael

Academic Year: 2023/2024

Course Book

1. Course name	Practical Phycology
2. Lecturer in charge	Khasro A. Ismael
3. Department/ College	Biology Dept./ College of Education
4. Contact	Khasro.ismael@su.edu.krd
5. Time (in hours) per	Practical: 12 hrs
6. Office hours	18 hrs
7. Course code	
8. Teacher's academic profile	<p>I have finished High school in 2001 and attended to College of Education, Biology Department/Salahaddin University /Erbil during 2001-2005, and I was among the top 10 students in Biology class with grade 78.291.</p> <p>In April 2007 started working as an official employee at Salahaddin university – college of Education.</p> <p>I got my master's degree in Ecology in 2015 with grade 81. I'm currently PhD student in the same department, college and university.</p> <p>My academic title is Assistant Lecturer now, and I have taught following courses during my career:</p> <ol style="list-style-type: none"> 1- Mycology (Second course) at department of biology/ college of education/ Salahaddin university 2021-2022 2- Aquatic Invertebrate (Second course) at department of Fish Resources and Aquatic Animals/ college of Agriculture Engineering Sciences/ Salahaddin university 2021-2022
9. Keywords	

10. Course overview:

This course covers aspects of the introduction to the algae, habit and habitat, nutrition, cellular organization, reproduction and life cycles, alternation of generation in algae, economic importance of algae, biochemical features used in an algae classification and cytological features used in algal classification and classification of algae to its groups.

11. Course objectives:

1. To recognize algae among the other microorganism.
2. To underline the role of algae in environmental balance and ecosystem.
3. To describe the relationships between algae and the other Kingdom.
4. To identify and Isolate algae from different sources.

12. Student's obligation

Students should attend all the laboratory lectures. At the beginning of each lecture, there will be a quiz on the last lecture content. At the end of each lecture, the students will be asked for a homework. The students should practice the slide preparation and genus identification individually.

13. Forms of teaching

Different forms of teaching will be used to achieve course objectives. For example, preparing samples and slides, powerpoint presentations for the head titles and definitions and summary of conclusions, classification of plants and any other illustrations, besides worksheet will be designed to let the chance for practicing on several aspects of the course in the classroom. There will be classroom discussions and the lecture will give enough background to translate, solve, analyze, and evaluate problems sets, and different issues discussed throughout the course.

14. Assessment scheme

The students are required to do closed-book exam (mid and final of the semester). An optional requirement will be doing reports on different type of algae and anything that is related with the course.

IN general:

The students are required to do closed-book exams during the academic year besides the laboratory assignment; theoretical exams 30 grade, quizzes: 5 grade

15. Student learning outcome:

A-

Each course consists of almost 11-12 lectures and 2h practical directly related to the lectured material and designed to develop student's practical scientific skills. After completing the course student should be familiar with the algal world. I believe that good lecturing must have some entertainment value to keep students awake and interested. To be sure, organization and clarity of presentation are very important, but the delivery needs to be such that students look forward to learning. I try to accomplish this with frequent changes of pace, anecdotes, direct class participation.

B-the students should be able to:

- 1- Define common terms used in Algae.
- 2- Collection and preservation of algae in different habitat.
- 3- Identification of algae.
- 4- Know all problems that caused by Algae.
- 5- Explanation the mode reproduction in different types of algae.
- 6- Classification of algae.
- 7- Importance of algae (ecologically)
- 8- Demonstrate the life cycle of common algae.

16. Course Reading List and References: