

Module title: Phycology Lab

Lecturer: A. Einali (Associate prof.)

Assessments: 40% mid-term exam-1
50% final exam
10% Quiz, laboratory report

References:

1. Algal Culturing Techniques, 2005, Academic Press.
Robert A. Andersen

Module subjects:

1. General overview

1st week: Writing a laboratory report

2nd week: Algal Culturing: Nineteenth Century Algal Culturing

3rd week: Algal Culturing Techniques, Twentieth Century Algal Culturing

2. Preparation of culture media

4th week: Freshwater culture media-Introduction, materials

5th week: Freshwater culture media-Agar, stock solutions. General comments

6th week: Freshwater culture media, Stock solutions

7th week: Freshwater media preparation, Freshwater Synthetic Media-AF-6, BG-11 media

8th week: Algal Culturing Techniques-BBM medium

9th week: Algal Culturing Techniques-DY-V medium, *First mid exam*

10th week: Marine culture media, Introduction, materials

11th week: Marine culture media, Stock solutions

12th week: Marine media preparation, Artificial Seawater Media, Enriched Natural Seawater Media

3. Sterilization and inoculation

13th week: Sterilization and Sterile Technique

14th week: Algal Inoculation, preparation of culture room

15th week: Purification Methods for Microalgae

4. Slide viewing

16th week: View microscopic slides, *Preparation for final exam*