

## MODULE DESCRIPTION

### General

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

### Module Information

Title	Ecology
Course Code	A.Y.2
Level of Studies	Undergraduate
Teaching Period	Autumn Term
Attendance Type	Compulsory
Prerequisites	

Orientation	Weekly Hours		Year	Semester	ECTS
	Lectures	Laboratory work			
ECOLOGY AND BIODIVERSITY CONSERVATION	2	1	1	1	6

### Faculty Instructor

IOANNIS TAKOS

### Type of Module

- General Foundation
- Specific Foundation / Core
- Knowledge Deepening / Consolidation

### Mode of Delivery

- Face to face
- Distance learning

### Digital Module availability

- E-Study Guide
- Departments Website
- E-Learning

### Language

	Teaching	Examination
Greek	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
English	<input type="checkbox"/>	<input type="checkbox"/>

## Erasmus

- The course is offered to exchange programme students

## Learning Outcomes

Upon completion of the course, students will know: the basic concepts of ecology and its historical development. The effect of abiotic factors on organisms. The concept and the dynamics of populations in ecosystems. Interactions, interdependence and competition between organisms. Ecosystems, communities, meta-populations. The concept and levels of biodiversity and ways of direct and indirect assessment.

## List of General Competences

- Apply knowledge in practice
- Work autonomously
- Work in teams
- Work in an international context
- Work in an interdisciplinary team
- Respect natural environment
- Advance free, creative and causative thinking

## Module Content (Syllabus)

- Introduction to ecology and its evolution
- Organisms and abiotic environment
- Individuals and Populations
- Interactions between organisms
- Ecosystems and communities
- Concept, value and assessment of biodiversity
- Special subjects of ecology
- Introduction to conservation biology

## Educational Material Types

- Book
- Notes
- Slide presentations
- Video lectures
- Multimedia
- Interactive exercises
- Other:

## Use of Information and Communication Technologies

- Use of ICT in Course Teaching
- Use of ICT in Laboratory Teaching
- Use of ICT in Communication with Students
- Use of ICT in Student Assessment

## Module Organization

Please fill in the workload of each course activity

Course Activity	Workload (hours)
Lectures	26
Laboratory work	13
Field Trip/Short Individual Assignments	40
Independent Study	71
<b>Total</b>	150

\* 1 ECTS unit corresponds to 25 hours of workload

## Student Assessment Methods

- Written Exam with Multiple Choice Questions
- Written Exam with Short Answer Questions
- Written Exam with Extended Answer Questions
- Written Assignment
- Report
- Oral Exams
- Laboratory Assignment

## Suggested Bibliography (Eudoxus and additional bibliography)

1. Begon, M., Howarth, R. W., Townsend, C. R. (2015). Οικολογία, Πληθυσμοί, Βιοκοινότητες και Εφαρμογές. 4<sup>th</sup> edition. Εκδόσεις ΥΤΟΡΙΑ.
2. Βερεσόγλου, Δ., Σ. (2010) Οικολογία. Εκδόσεις Γαρταγάνη