MODULE DESCRIPTION

General

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

Module Information

Title	Ecohydrology and its practices
Course Code	OPT.17
Level of Studies	Bachelors
Teaching Period	7th Semester
Attendance Type	Elective (optional)
Prerequisites	-

Orientation	Weekly Hours		Year	Semester	ECTS
	Lectures	Laboratory work			
Management, protection of natural resources and climate change	2	1	4th	7th	3

Faculty Instructor

____ George Zaimes – Assistant Professor / Dimitrios Emmanouloudis – Professor _____

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	☑	☑
English	☑	☑

Erasmus

☑ The course is offered to exchange programme students

Learning Outcomes

The course teaches the basic concepts of ecohydrology, its main features and its main applications
The purpose of the course is to learn what ecohydrology is, it's differences from hydrology and ecology, its practical applications, and its necessity for the sustainable management of aquatic ecosystems.
Upon successful completion of the course the student will be able to:

- Recognize the uniqueness of ecohydrology
- Recognize the pros and cons of ecohydrology for the better understanding of aquatic ecosystems
- Apply the principles of ecohydrology to management plans for aquatic ecosystems
- Apply the principles of ecohydrology for the protection of aquatic ecosystems

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)

Ecohydrology basic concepts and main features, various advantages and disadvantages in comparison to hydrology and ecology, aquatic ecosystems, creation of plans for the proper utilization and protection of aquatic ecosystems based on the principles of ecohydrology

Keywords: ecohydrology, aquatic ecosystems, aquatic ecosystem management, aquatic ecosystem protection

Educational Material Types

☐ Book
☑ Notes
☑ Slide presentations
☐ Video lectures
☑ Multimedia
☑ Interactive exercises
☐ Other:

Use of Information and Communication Technologies

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

Module Organization

Please fill in the workload of each course activity

Course Activity	Workload (hours)
Lectures	25
Laboratory work	25
Field Trip/Short Individual Assignments	25
Independent Study	-
Total	**75**

* 1 ECTS unit corresponds to 25 hours of workload

Student Assessment Methods

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

Suggested Bibliography (Eudoxus and additional bibliography)

1. Weekly notes will be provided