

MODULE DESCRIPTION

General

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

Module Information

Title	Meteorology - Climatology - Climate Change
Course Code	OPT. 16
Level of Studies	Bachelors
Teaching Period	7 th 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	4 th	7 th	3

Faculty Instructor

_____ 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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
English	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Erasmus

- The course is offered to exchange programme students

Learning Outcomes

The course teaches the basic on weather phenomena, their main characteristics, the climate of Greece and the characteristics of climate change.

Upon successful completion of the course the student will be able to:

- Understands the basic weather conditions and how they occur
- Identify the different types of climate and what are their main characteristics
- Understand the phenomenon and effects of climate change

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)

Definition of meteorology, concept of weather, main meteorological phenomena, mechanisms of meteorological phenomena, climatology, climate concept and factors affecting it, general climate classification methods and main climate characteristics, description of the main climates of the earth, climate and the categories of climate in Greece, what is climate change, climate change in Greece, the relationship between forest and climate.

Keywords: Meteorology, Meteorological Mechanisms, Climate, Climate Categories, Climate Change

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	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
- 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. Weekly notes are provided
