

# MODULE DESCRIPTION

## General

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

## Module Information

Title	Rangeland Ecology
Course Code	E.Y.5
Level of Studies	Bachelor's
Teaching Period	Fall
Attendance Type	Compulsory
Prerequisites	None

Orientation	Weekly Hours		Year	Semester	ECTS
	Lectures	Laboratory work			
Management and protection of natural resources and Climate Change			3 <sup>rd</sup>	4 <sup>th</sup>	4

## Faculty Instructor

Theodora Merou

## 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 aim of the course is to present the basic knowledge of the rangeland ecology and their application for their sustainable management, so that

1. to make the student able to understand
  - the structure and function of pasture ecosystems and the concept of biodiversity and how it will be maintained,
  - the risks to these ecosystems of degradation,
  - the concepts of grazing capacity and stocking rate
2. to acquaint the student with the identification of the main herbaceous and leguminous species

## 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)

Scope of rangeland Ecology. Economic importance of rangelands. Biological cycle, physiology, growth and morphogenesis of rangeland plants. Phenology. Structure, function and productivity of rangeland ecosystems. Effects of grazing and the abiotic environment on rangeland ecosystems. Temporal changes of rangeland vegetation and succession. Disturbance and degradation of rangeland ecosystems - desertification. Description and identification of the most important rangeland species. Plant diversity - indicators

## 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	30
Laboratory work	30
Field Trip/Short Individual Assignments	10
Independent Study	30
<b>Total</b>	100

\* 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. Papanastasis, B.P. & Ispikoudis I. 2012. Rangeland Ecology. Giachoudi-Giapouli Publications OE (in Greek)
2. Vrachnakis, M. 2015. Livadoponia. Kallipos Publications (in Greek)
3. Papanastasis, B.P. & B.I. Noitsakis. 1992. Rangeland Ecology. Yahoudi-Giapouli Publications OE(in Greek)