

MODULE DESCRIPTION

General

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

Module Information

Title	Systematic Botany
Course Code	C.Y.3
Level of Studies	Undergraduate
Teaching Period	Winter Term
Attendance Type	Compulsory
Prerequisites	Plant Morphology And Physiology

Orientation	Weekly Hours		Year	Semester	ECTS
	Lectures	Laboratory work			
ECOLOGY AND BIODIVERSITY CONSERVATION	2	2	2	3	5

Faculty Instructor

Tsiftsis Spyridon

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

- Evolution of plant organisms since their appearance on earth to the creation of modern phylogenetic groups.
- Features and diversity of all major taxonomic groups.
- Principles and methods of classification of plants.
- Morphological characteristics of the most important plant families of Spermatophyta.
- Most important representatives of the Greek flora
- Collection and processing of plant material
- Identification of plant samples

In the workshop, students will have the opportunity to learn about the following:

- Diversity of plants and especially diversity of flower types, inflorescences, leaves and shoots.
- Terminology of classification of plant organisms.
- Use of keys in plant identification.
- Collection and processing of plant samples.

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)

Systematic Botany in general. Evolution and variation of vascular plants, woody and flowering plants. Morphological features used in the taxonomic identification of plant species. Floral diagrams. Flower types. Inflorescences, fruits, seeds. Pollination and seed dispersal. Chorological and biotic forms. Methods for determining plant species. Plant nomenclature. Differentiation between the main plant groups. Most important plant families from a forest point of view.

Key words

Flora, classification-identification, nomenclature

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	26
Field Trip/Short Individual Assignments	12
Field sampling / plant identification	18
Independent Study	40
Examination	3
Total	125

* 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)

- Simpson, G.S. 2017. Systematic Botany. Utopia Publishing. (In Greek)
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-Scientific papers and books available through the library of the Department