

MODULE DESCRIPTION

General

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

Module Information

Title	Agroforestry
Course Code	OPT. 6
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 rd	5 th	3

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 type="checkbox"/>	<input type="checkbox"/>

Erasmus

- The course is offered to exchange programme students

Learning Outcomes

To provide the student of the Department with the necessary knowledge background on the environmental, cultural, social and economic values of agroforestry (forest, forestry and agroforestry) systems. At the same time to make him capable of installing and managing them in various environments and to compile studies for the installation and management of agroforestry systems.

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)

Definitions, concepts. systems. Productivity of agroforestry systems. Components of Agroforestry systems. Special applications of Agroforestry. Advantages of agroforestry systems (environmental, ecological, economic). Role of trees in agroforestry systems. Ecological interactions in Agroforestry systems. *Impact* on the growth and *productivity* of herbaceous plants grown in tree understory Effect of herbaceous plants on tree growth. Interactions above ground (microclimate and light). Interactions below the soil surface (water and nutrients). Establishment and management of agroforestry systems. Perspectives of agroforestry in the world, Europe and Greece. Structure, classification and interactions of agroforestry systems

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	15
Laboratory work	15
Field Trip/Short Individual Assignments	25
Independent Study	20
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. Papanastasis B.P. 2015. Agroforestry. Ziti Publications (In Greek)
2. Papanastasis B.P. 2009. Pasture Livestock Development. Yahoudi Publications. (In Greek)
3. Vrachnakis M. 2015. Meadow farming. Greek Academic Electronic Textbooks and Aids - Kallipos. (In Greek)
4. Etienne M. 1996. Western European Silvopastoral Systems. INRA Editions. 276 p.
5. Rigueiro-Rodríguez A., J. McAdam and M.R. Mosquera-Losada (eds). 2009. Agroforestry in Europe Current Status and Future Prospects, Springer, Berlin.