MODULE DESCRIPTION

General

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

Module Information

Title	European & Tropical Woods
Course Code	OPT.15
Level of Studies	Undergraduate Studies
Teaching Period	Spring
Attendance Type	Elective
Prerequisites	Wood Technology & Biocomposites

Orientation	Weekly Hours		Year	Semester	ECTS
	Lectures	Laboratory work			
Landscape Architecture & Restoration	2	1	3	6	3

Faculty Instructor

Dr. Antonios N. Papadopoulos

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 not offered to exchange programme students

Learning Outcomes

Knowledge of the structure, physical, mechanical and chemical properties of tropical wood as well as the uses for each forest species separately, ability to assess the suitability of each wood for each specific use, ability to choose wood for each use based on physical and mechanical strength , its design, hardness and in general, its properties and behavior during its use.

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)

Relations between structure, properties and uses of various timbers. Structure, properties, behaviour and utilization potential of the most important European and tropical woods. Relations between wood special characteristics and suitability for particular uses.

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

Course Activity	Workload (hours)
Lectures	26
Laboratory work	13
Field Trip/Short Individual Assignments	11
Independent Study	25
Total	**75**

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)

- Dinwoodie, J.M. (1981). *Timber: its nature and behaviour*. Van Nostrand Reinhold, New York, *pp: 61-63*.
- Kollman, F. and W. Cote (1968). *Principles of Wood Science and Technology* I. Solid Wood. Springer-Verlag, Berlin/New York.
- Tsoumis, G. (1968). *Wood as Raw Material*. Pergamon Press. New York.
- Tsoumis, G. (1992). *Science and technology of wood: structure, properties, utilization.* New York: Van Nostrand Reinhold.