COURSE OUTLINE

1. GENERAL

SCHOOL	School of Technology		
DEPARTMENT	Department of Forestry, Wood Sciences and Design (Karditsa)		
LEVEL	*Undergraduate*		
CODE	ΔΠΥ911	**STUDENT SEMESTER**	9th
COURSE TITLE	Biodiversity of forest ecosystems		

ACTIVITIES	**WEEKLY HRS**	**ECTS**
Lectures	2	6
Exercises	1	
Total	3	6

TYPE OF COURSE	Generic knowledge and Skills Development
PREREQUISITES:	none
LANGUAGE TEACHING AND EXAMINATION:	Greek
THE COURSE OFFERED TO STUDENTS ERASMUS	Yes
WEBPAGES COURSE (URL)	

2. LEARNING OUTCOMES

Learning Outcomes

Knowledge: To provide the graduate of the Department with the necessary knowledge for quantifying and monitoring biological diversity and assessing forest ecosystems, the degree of endemism of Greek plant and animal taxa, the risks of its alteration, the protection regime and knowledge of the ecology and management of invasive taxa

Skills: To give the student the basis for a more complete understanding of the discipline of natural ecosystem management, with an emphasis on biodiversity preservation and protection.

Competencies: Graduates will be able to work on conservation plans and assessment of forest ecosystems.

General Skills

- Work in an interdisciplinary environment
- Adaptation to new situations
- Generation of new research ideas
- Respect for the natural environment
- Autonomous work

3. COURSE CONTENT

Lectures:

Endemism and Greek flora and fauna – Biological invasion and how to deal with it – The importance of Natura 2000 Habitats in Greece – The protection status of Greek taxa – The importance of biological diversity and its components – The importance of biological monitoring – Valuation of forest ecosystems - Principles and conditions for forest products certification.

Exercises:

Greek endemic taxa – Invasive taxa – Natura 2000 habitats – Calculation of plant diversity – Biological monitoring programs (monitoring) – Ways of valuing forest ecosystems – Natura 2000 habitats in Greece – Red Data Books – Forest certification methodology.
The exercises take place one (1) hour per week. Students are required to attend at least 50% of these. Essentially, the exercises of the course are a continuation of the theory, where exercises that have a practical application in the subject are solved. The objective of the exercises is for the student to maximize the knowledge acquired from the theoretical part, with practical examples and the development of constructive dialogue, solving problems, as well as the acquisition of conscious knowledge and the application of the basic principles of the subject of the course in practice.
Relevant instructions, and rich material are posted on e-class.

4. TEACHING AND LEARNING METHODS - EVALUATION

<table>
<tr><td>DELIVERY METHOD</td><td>The course includes two teaching parts: Lectures and Exercises. Lectures involve the active participation of students by using interactive media. Students are encouraged to take part in research activities.
The Exercises includes the compulsory engagement of the students with specific activities that they choose from a list of activities of each teaching unit of the theory book. In addition, the research achievements in specific areas of the science of the course are announced to the students.
Finally, educational excursions are carried out as part of the course every semester. Participation in educational excursions is mandatory.</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</td><td>• Use of a course website on the e-class platform for posting (a) notes, (b) internet links, (c) announcements, search tools and social networks
• Use of microscopes in the laboratory sessions</td></tr>
<tr><td>MANAGEMENT OF TEACHING</td><td><table><tr><th>Activity</th><th>Semester Workload</th></tr><tr><td>Lectures</td><td>45</td></tr><tr><td>Exercises</td><td>25</td></tr><tr><td>Individual study</td><td>80</td></tr><tr><td>Course Total</td><td>150</td></tr></table></td></tr>
<tr><td>STUDENT EVALUATION</td><td>A. The theoretical part of the course is evaluated at the end of the semester with written exams. The final exam procedure is the standard one followed in all the Department's courses.
In agreement with the students who wish to do so, the evaluation of the theoretical course can also be done with progress exams that will be held on an agreed date during the semester, according to the Department's program.
Students who have participated in all educational excursions during the semester have the right to participate in the evaluation exams of the theoretical course.

B. The evaluation of the exercises takes place at the end of the semester with written exams. The final exam procedure is the standard one followed in all the Department's courses.
Students who have (a) attended at least 50% of the taught courses and (b) participated in all educational excursions during the semester have the right to participate in the evaluation exams of the exercises.</td></tr>
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5. RECOMMENDED-BIBLIOGRAPHY

Books offered to students through the Eudoxus platform:

- Καρανδεινός Μ.Γ. 2009. Ποσοτικές Οικολογικές Μέθοδοι: Από τη Θεωρία στην Πράξη. Ίδρυμα Τεχνολογίας και Έρευνας-Πανεπιστημιακές Εκδόσεις Κρήτης, (κωδ. στον Εύδοξο: 343).

Books offered besides the Eudoxus platform:

- Magurran A.E. 2004. Measuring Biological Diversity. Blackwell Publishing, 256 p.
- Gaston K.J. and J.I. Spicer. 2004. Biodiversity – An Introduction. Blackwell Publishing, 191 p.
- Gardner T. 2010. Monitoring Forest Biodiversity: Improving Conservation through Ecologically-Responsible Management. Earthscan Publications, 192 p.
- Smith W. and C. Maser. 2000. Forest Certification in Sustainable Development: Healing the Landscape. CRC Press, 256 p.