COURSE OUTLINE

1. General

School	School of Plant Sciences		
Department	Forestry and Natural Environment Management		
Studies level	Undergraduate		
Course Code	**622**	**Semester**	**6ο**
Course Title	MYCOLOGY - MACROFUNGUS		
INDEPENDENT TEACHING ACTIVITIES		**Teaching hours per week**	**ECTS**
Lectures		2	3
Course total		2	
Course type	Special Background or Core		
Prerequisite courses:	No		
Language Of Teaching & Examination:	Greek		
The Course is Offered to Erasmus Students	Yes		
Course webpage (URL)	https://oeclass.aua.gr/eclass/courses/5289/		

2. LEARNING OUTCOMES

Learning Outcomes

The subject of the course is mycology and the study of macrofungi. Mycology is a branch of Botany. Macrofungi play a very important ecological role either as saprotrophic organisms, parasitic/pathogenic or as symbiotic organisms, participating in shaping the structure and function of ecosystems. Mushrooms, macrofungi, higher fungi are distinguished by their diversity, endless shapes, striking colours and exotic aromas. They are known all over Greece under many names such as manites, marta, gapa, gipa, gipas, owl, owls, pupae, martamanites, papades, etc. In Greece, more than 2,100 species of fungi have been recorded.

The aim of the course is to understand the properties, biology and behaviour of fungi. In the Basic Mycology section, the biology and characteristics of fungi at the cellular and organismal level (reproduction, pathogenicity, adaptability) are taught. The morphology of fungi is also taught, with emphasis on their classification and characteristics.

General skills

- Search, analysis and synthesis of data and information, using the necessary technologies.
- Autonomous work.
- Group work.
- Respect for the natural environment.
- Adaptation to new situations.
- Decision-making.
- Promotion of free, creative and deductive thinking.

3. COURSE CONTENT

Lectures (2 hours per week)

- Fungi in general.
- Basic elements of morphology and anatomy.
- Reproduction - multiplication, fungal physiology, classification.
- Categories of macrofungi.
- Groups of macrofungi in forest and grassland ecosystems.
- Conservation, ecological and economic importance of macrofungi.
- Mushrooms of Greece.

4. TEACHING & LEARNING METHODS - EVALUATION

TEACHING METHODS	In the classroom, in the Laboratory and in wooded areas adjacent to the Department's facilities. A combination of educational methods and techniques are applied, which aim at enhancing the active participation of students and which give the greatest possible effectiveness to face-to-face teaching: Enriched lectures, questions and answers, discussion, exercises, working groups.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Use, flexibly and alternatively, of supervisory media that make use of ICT: multimedia PC, video data projector, internet, asynchronous tele-education platform (e-class). Use of video for a better understanding of the theory. Communication with students via e-mail and one-to-one meetings with students.
ORGANISATION OF TEACHING	
STUDENT EVALUATION	I. Written final examination on the theory of the course with a multiple-choice test, with negative grading for wrong answers (50% of the final grade). The 20% of the grade may come from students' presence and participation during the lecture. Another 30% may come from an individual assignment. Students can also choose to give only final exams for the 100% of the grade on a test with multiple choices, complemented by answers to critical and short answer questions.

Activity	***Semester workload***
Lectures	30
Assignment	15
Educational visits	10
Personal study	20
COURSE TOTAL	***75***

5. RECOMMENDED LITERATURE

1. Diamandis, S. and Perlerou, C., 2001. The mycoflora of the chestnut ecosystems in Greece. *Forest Snow and Landscape Research*, *76*(3), pp.499-504.
2. Ouzouni, P.K., Petridis, D., Koller, W.D. and Riganakos, K.A., 2009. Nutritional value and metal content of wild edible mushrooms collected from West Macedonia and Epirus, Greece. *Food Chemistry*, *115*(4), pp.1575-1580.
3. Αθανασίου Ζ.Θ., 2010. Μανιτάρια Οδηγός αναγνώρισης για 642 Είδη. Εκδόσεις Ψυχογιός
4. Κελτεμίδης, Δ.Θ., 1990. Τα μανιτάρια του βουνού και του κάμπου. Εκδόσεις Ψυχογιός
5. Ντινόπουλος, Θ., 2010. Μανιτάρια, Ο θαυμαστός αυτός κόσμος, ο μικρός ο μέγας. Εκδοτικός οίκος Αδελφών Κυριακίδη.
6. Παντίδου, Μ., 1997. Μανιτάρια από τα Ελληνικά Δάση. Μουσείο Φυσικής Ιστορίας Γουλανδρή.

7. Παπαδημητριου, Α. 2014. Μανιτάρια του Εθνικού Πάρκου Οροσειράς Ροδόπης Άγγελος Παπαδημητρίου
8. Ταβουλτσίδη, Α.Α., 2015. Επεξεργασία εδώδιμων μανιταριών βασιδιομυκήτων και ασκομυκήτων.