COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES
ACADEMIC UNIT	AGRICULTURE
LEVEL OF STUDIES	UNDERGRADUATE
COURSE CODE	AGRI 104
COURSE TITLE	SYSTEMATIC BOTANY – WEED SCIENCE

COURSE CODE	AGRI 104	**SEMESTER**	1st

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	**WEEKLY TEACHING HOURS**	**CREDITS**
lectures	2	
laboratory exercises	2	
TOTAL	4	5
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		
COURSE TYPE *general background, special background, specialised general knowledge, skills development*	SPECIALISED GENERAL KNOWLEDGE	
PREREQUISITE COURSES:	Typically, there are not prerequisite course.	
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek	
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No	
COURSE WEBSITE (URL)		

2. LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.
Consult Appendix A
- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

Upon completion of the course the student will be able to:
- Understand the basic principles of systematic botany.
- Know the basic characteristics of the important families of the Greek flora.
- Recognize the common weeds
- Know suitable methods for the weed management.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology	*Project planning and management*
Adapting to new situations	*Respect for difference and multiculturalism*
Decision-making	*Respect for the natural environment*
Working independently	*Showing social, professional and ethical responsibility and sensitivity to gender issues*
Team work	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*
Working in an interdisciplinary environment	*.....*
Production of new research ideas	*Others...*

By the end of this course the student will, moreover, have developed the following skills (general abilities):
- Ability to understand basic aspects of Systematic Botany.
- Ability to recognize the common weeds.
- Ability to use this knowledge to cope with cultivation problems.
- Ability to interact with others over natural or interdisciplinary problems.

Generally, by the end of this course the student will, furthermore, have developed the following general abilities (from the list above):

Search for, analysis and synthesis of data and information, with the use of the necessary technology
Decision-making
Team work
Project planning and management
Promotion of free, creative and inductive thinking

3.   SYLLABUS

Theory
1.   Introduction on Systematic Botany
2.   History of Systematic Botany
3.   Classification, taxonomy and nomenclature.
4.   Diagnostic characteristics of important families of the Greek flora.
5.   Floral diversity of Greece
6.   Weed biology.
7.   Weed - Crop Competition. Allelopathy.
8.   Weed management methods.
9.   Integrated weed management.
10.   Herbicides.
11.   Weed resistance in herbicides.
12.   Herbicides and soil.
13.   Application of herbicides.

Laboratory Exercises
•   Principles of plant samples collection.
•   Plant identification of important families of the Greek flora
•   Preparation of an herbarium.
•   Winter weeds.
•   Spring weeds.
•   Herbicides.

4.   TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face-to-face lectures and laboratory exercises.
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	• Use of Information and Communication Technologies (ICTs) (e.g. powerpoint) in teaching. • Use of ICTs in student communication (learning support through the e-class platform).

TEACHING METHODS *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.* *The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS*		*Semester workload*
	Lectures (2 contact hours per week x 13 weeks)	26
	Laboratory exercises (2 contact hours per week x 6 weeks)	12
	Laboratory reports	6
	Hours for private study of the student and preparation for mid-term or/and final examination – Participation in the examinations	81
	Course total	**125 hours**

STUDENT PERFORMANCE EVALUATION *Description of the evaluation procedure* *Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*	1. Optionally, two mid-term examinations, the first in the middle and the second at the end of the semester. The evaluation procedure is conducted with short answer questions and/or open-ended questions and/or multiple choice questionnaires and/or oral examination, as well as questions based on laboratory exercises. The final examination grade is the mean mark. It is mandatory to obtain pass grade (≥5) in each examination. 2. Written examination after the end of the semester. The evaluation procedure is conducted with short answer questions and/or open-ended questions and/or multiple choice questionnaires and/or oral examination, as well as questions based on laboratory exercises (unless the student has successfully participated the mid-term examinations). Minimum passing grade: 5. All the above are taking place in Greek.

5.   ATTACHED BIBLIOGRAPHY

- Η. Ελευθεροχωρινός. Ζιζανιολογία. ΕΚΔΟΤΙΚΗ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ ΑΓΡΟΤΙΚΟΥ ΤΥΠΟΥ
- Η. Τραυλός, Π. Κανάτας. Ζιζανιολογία και Γεωργία. ΠΕΔΙΟ ΕΚΔΟΤΙΚΗ,ΔΙΑΦΗΜΙΣΤΙΚΗ ΚΑΙ ΡΑΔΙΟΤΗΛΕΟΠΤΙΚΩΝ ΠΑΡΑΓΩΓΩΝ Α.Ε.
- Ι. Βασιλάκογλου. Συστηματική Βοτανική. Εκδόσεις Ριζάκης.
- Γ. Σαρλής. Συστηματική Βοτανική. Εκδόσεις Αθ. Σταμούλη.