COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Agricultural Sciences		
ACADEMIC UNIT	Biosystems & Agricultural Engineering		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	**BAE_806**	**SEMESTER**	**8th**
COURSE TITLE	**PLANT PATHOLOGY**		

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	3	
Tutorials	0	
Laboratory	0	
TOTAL	**3**	**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*	Background and Scientific Area
PREREQUISITE COURSES:	General Plant pathology_BAE_510
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek. For Erasmus students in English
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes
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*

This course aims to acquire a complete knowledge on topics related to the main fungal, prokaryotic, virological and non-parasitic diseases of the main tree species (apple, pear, cydonia, peach, apricot, cherry, prunus, olea, citrus, pistacia and vine). The description of the symptoms, causes, biology and ecology of the pathogens, as well as the epidemiology of the respective diseases are emphasized in more detail, while at the same time the principles of the integrated treatment of the diseases are analyzed.

At the end of this course student will be able to:
- recognize the most important diseases
- propose an integrated treatment based on the knowledge of the epidemiology of each disease.

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*
	Respect for the natural environment

Decision-making *Working independently* *Team work* *Working in an international environment* *Working in an interdisciplinary environment* *Production of new research ideas*	*Showing social, professional and ethical responsibility and sensitivity to gender issues* *Criticism and self-criticism* *Production of free, creative and inductive thinking* *……* *Others…* *…….*

At the end of this course the student will have further developed the following general skills:
Search for, analysis and synthesis of data and information, with the use of the necessary technology
Adapting to new situations
Decision-making
Working independently
Team work
Production of new research ideas
Respect for the natural environment
Criticism and self-criticism
Production of free, creative and inductive thinking

(3) SYLLABUS

1. Distinguishment between parasitic and non-parasitic diseases of trees and vines.
2. Fungal and prokaryotic diseases in apple trees.
3. Virological diseases in apple trees.
4. Fungal and prokaryotic diseases in peach trees.
5. Virological diseases in peach trees.
6. Fungal and prokaryotic diseases in Citrus.
7. Virological diseases of Citrus.
8. Fungal and prokaryotic diseases in Olive trees.
9. Virological diseases in Olive trees.
10. Fungal and prokaryotic diseases in grapevine.
11. Virological diseases in grapevine.
12. Integrated disease control.
13. Estimation of disease losses.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Lectures in the amphitheatre and in the field.
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	• Use of ICT (power point) in Teaching • Use of ICT in Communication with students (Learning process support through the electronic platform e-class).
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*	

Activity	***Semester workload***
Lectures	30
Writing short reports of laboratory exercises- Exams	40
Study hours and preparation for the laboratory exercises and the final examination	55
Course total	***125***

STUDENT PERFORMANCE EVALUATION *Description of the evaluation procedure*	1. The examination in the theory of the course is done with a comprehensive questioner or a multiple-choice questioner

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.*	that focus on the understanding of the course giving weight to the student's critical ability. 2. Oral exams may take place in cases of students who have been exempted from the writing exams and always the same time and day as the writing exams. 3. The above are done in the Greek language. For foreign language students (eg Erasmus students) conducted in English

(5) ATTACHED BIBLIOGRAPHY (In Greek)

- Suggested bibliography:
  - Παναγόπουλος Χ. 2007. Ασθένειες καρποφόρων δέντρων και αμπέλου. Εκδόσεις Σταμούλη, Αθήνα, σελ. 608

- Additional bibliography:
  - Παναγόπουλος Χ. Ασθένειες Κηπευτικών Καλλιεργειών. Εκδόσεις Σταμούλη, Αθήνα σελ. 480
  - Θανασουλόπουλος Κ. 1995. Μυκητολογικές ασθένειες δέντρων και αμπέλου. Εκδόσεις Ζήτη, Θεσσαλονίκη, σελ. 248
  - Θανασουλόπουλος Κ. 1995. Μυκητολογικές ασθένειες φυτών μεγάλης καλλιέργειας. Εκδόσεις Ζήτη