COURSE OUTLINE

1. GENERAL

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SCHOOL	AGRICULTURAL SCIENCE	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	AGRICULTURE			
LEVEL OF STUDIES	UNDERGRADUATE			
COURSE CODE	AGRI_801 SEMESTER OF STUDIES 8 th			
COURSE TITLE	ADVANCED 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		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 (4).				
COURSE TYPE general background, special background, specialised general knowledge, skills development	Specialised general know			
PREREQUISITE COURSES:	Typically, there are no prerequisite courses.			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek.			
IS THE COURSE OFFERED TO	No			
ERASMUS STUDENTS				
COURSE WEBPAGE (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

By the end of this course the student will have developed the following skills (general abilities):

- Understand comprehend the biology and manifestation of diseases (fungal, prokaryotic, viral, non-parasitic) of agriculture.
- Understand comprehend the symptomatology and etiology of their occurrence and dissemination.
- Understand comprehend epidemiology, diagnosis and treatment.
- Know how to be informed on cutting-edge issues about plant diseases.

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

Adapting to new situations
Decision-making

Working independently Team work Project planning and management Respect for difference and multiculturalism Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity

to gender issues

Criticism and self-criticism

Working in an international environment Working in an interdisciplinary environment Production of new research ideas Production of free, creative and inductive thinking

Others...

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

Decision making

Autonomous (Independent) work

Respect for the Environment

Promotion of free, creative and inductive thinking

3. SYLLABUS

- 1 & 2 Fungi of vegetable and ornamental species. Description, Hosts, Geographical Distribution, Disease Cycle, Damage and Treatment.
- 3 & 4 Prokaryotic diseases of vegetable and ornamental species. Description, Hosts, Geographical Distribution, Disease Cycle, Damage and Treatment.
- 5 & 6 Vegetable and ornamental virus induced diseases. Description, Hosts, Geographical Distribution, Disease Cycle, Damage and Treatment.
- 7 Non-parasitic diseases of vegetables and ornamental species. Description, Damage and Confrontation.
- 8 Parasitic plants
- 9 Post harvest diseases
- 10 Principles of fungal disease control
- 11 Principles of procaryotic disease control
- 12 Principles of virus disease control
- 13 Principles of non-parasitic disease control.

Laboratory exercises:

- 1 Preparation of laboratory culture media
- 2 Principles of sampling and sample processing
- 3, 4, 5 Observation, description of symptoms, sample processing for identification of disease agent of tissues infected by plant pathogenic fungi, bacteria and viruses, or post-harvest disease agents.
- Observation, description of symptoms, sample processing for identification of non parasitic disease causes

4. TEACHING AND LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Lectures, self-tests of students and problem-solving seminars.		
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES Use of ICT in teaching, laboratory education, communication with students	Use of Information and Communication Technologies (ICTs) (e.g. powerpoint) in teaching. The contents of the course of each chapter are uploaded on the internet, in the form of a series of pdf files that the students can freely download using a password which is provided to them at the beginning of the course.		
TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching are described in detail.	Lectures (2 contact hours per week x 13 weeks)	26	
Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography,	Laboratory work (2 contact hours per week x 6 weeks)	12	
tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.	Hours for private study of the student, preparation and attendance mid-term or/and final examinations.	87	
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	Total number of hours for the Course (25 hours of work-load per ECTS credit)	125 hours (total student work-load)	

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. Mandatory written examination, with full length questions and / or multiple choice questions, as well as questions based on the laboratory work. Minimum pass grade= 5, scale 0-10.
- 2. Total degree contribution 100%.
- 3. All the above are conducted in Greek.

5. ATTACHED BIBLIOGRAPHY

Suggested bibliography:

1. Greenwood P, Halstead A. 2018. RHS Pest & Diseases. DK Press.

Related academic journals:

- 1. Crop Protection.
- 2. Hellenic Plant Protection Journal. Benaki Phytopathological Institute
- 3. Journal of Applied Horticulture
- 4. Journal of Pest Science
- 5. Plant Disease.