

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	AGRICULTURAL AND FORESTRY SCIENCES		
<b>DEPARTMENT</b>	AGRICULTURAL DEVELOPMENT		
<b>LEVEL OF STUDIES</b>			
<b>COURSE CODE</b>	<b>AGRON0010</b>	<b>SEMESTER</b>	8 <sup>th</sup>
<b>COURSE TITLE</b>	Diseases of Vegetable and Ornamental Crops		
<b>TEACHING ACTIVITIES</b> <i>If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.</i>		<b>TEACHING HOURS PER WEEK</b>	<b>ECTS CREDITS</b>
Lectures and Practical courses		5 (3+2)	5
Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.			
<b>COURSE TYPE</b> <i>Background, General Knowledge, Scientific Area, Skill Development</i>	SPECIALIZATION		
<b>PREREQUISITES:</b>	-		
<b>TEACHING &amp; EXAMINATION LANGUAGE:</b>	Greek		
<b>COURSE OFFERED TO ERASMUS STUDENTS:</b>	Yes		
<b>COURSE URL:</b>	<a href="https://eclass.duth.gr/courses/OPE01230/">https://eclass.duth.gr/courses/OPE01230/</a>		

### 2. LEARNING OUTCOMES

<b>Learning Outcomes</b> <i>Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.</i>		
<ul style="list-style-type: none"> <li>• identify the major diseases of vegetable and ornamental plants by examining the specific symptoms and signs of the disease.</li> <li>• understand the cycle of the major vegetable diseases and recommend the appropriate crop protection measures.</li> <li>• collect, prepare and observe specimens from diseased plants (vegetable and ornamental plants) under the microscope.</li> </ul>		
<b>General Skills</b> <i>Name the desirable general skills upon successful completion of the module</i>		
<table border="0"> <tr> <td><i>Search, analysis and synthesis of data and information, ICT Use Adaptation to new situations Decision making Autonomous work Teamwork Working in an international environment Working in an interdisciplinary environment Production of new research ideas</i></td> <td><i>Project design and management Equity and Inclusion Respect for the natural environment Sustainability Demonstration of social, professional and moral responsibility and sensitivity to gender issues Critical thinking Promoting free, creative and inductive reasoning</i></td> </tr> </table>	<i>Search, analysis and synthesis of data and information, ICT Use Adaptation to new situations Decision making Autonomous work Teamwork Working in an international environment Working in an interdisciplinary environment Production of new research ideas</i>	<i>Project design and management Equity and Inclusion Respect for the natural environment Sustainability Demonstration of social, professional and moral responsibility and sensitivity to gender issues Critical thinking Promoting free, creative and inductive reasoning</i>
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<ul style="list-style-type: none"> <li>• Autonomous work</li> <li>• Literature search, data analysis and synthesis</li> </ul>		

- Development of inductive reasoning

### 3. COURSE CONTENT

1. Introduction - Course content - Course structure
2. Damping off Diseases-Root and Collar Rots
3. Root and Collar Rots (continued)
4. Vascular Diseases
5. Downy Mildews
6. Alternaria and Anthracnose Infections
7. Powdery mildews, Botrytis Infections and Rusts
8. Selected Prokaryotic Diseases
9. Selected Viral Diseases (Solanaceae)
10. Selected Viral Diseases (Cucurbitaceae and leafy vegetables)
11. Crop Protection Measures
12. 1st Review Course (emphasis on the most important diseases)
13. 2nd Review Course (work hypotheses and photo-quiz)

### 1. LEARNING & TEACHING METHODS - EVALUATION

<b>TEACHING METHOD</b> <i>Face to face, Distance learning, etc.</i>	In the classroom	
<b>USE OF INFORMATION &amp; COMMUNICATIONS TECHNOLOGY (ICT)</b> <i>Use of ICT in Teaching, in Laboratory Education, in Communication with students</i>	<ul style="list-style-type: none"> <li>• Use of information technologies (power point, video)</li> <li>• Support of the learning process through the e-class online platform</li> </ul>	
<b>TEACHING ORGANIZATION</b> <i>The ways and methods of teaching are described in detail.</i> <i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research &amp; analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.</i>  <i>The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.</i>	<b>Activity</b>	<b>Semester workload</b>
	Lectures	39
	Laboratory courses	26
	Independent study	60
	Course Total	<b>125</b>
<b>STUDENT EVALUATION</b> <i>Description of the evaluation process</i>  <i>Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Presentation in audience, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others</i>  <i>Please indicate all relevant information about the course assessment and how students are informed</i>	Written exams at the end of the semester.	

### 2. SUGGESTED BIBLIOGRAPHY

Selected Textbooks in the Eudoxus system:

Βιβλίο [22647]: Ασθένειες κηπευτικών καλλιεργειών, Παναγόπουλος Χρήστος.

Βιβλίο [22645]: Ασθένειες καλλωπιστικών φυτών, Παναγόπουλος Χρήστος.

*Additional bibliographic resources will be available to students during the course*

## ANNEX OF THE COURSE OUTLINE

### Alternative ways of examining a course in emergency situations

<b>Teacher (full name):</b>	Christos Zamioudis
<b>Contact details:</b>	czamioud@agro.duth.gr
<b>Supervisors: (1)</b>	YES
<b>Evaluation methods: (2)</b>	Remote exams via the "EXERCISES" of the E-class combined with simultaneous mandatory connection to the Skype for Business platform.
<b>Implementation Instructions: (3)</b>	<p>The date and time of the exams will be announced by the Secretariat of the Department. The Skype for Business (SfB) link will be provided by the instructor one to two days before the scheduled exam date. Eligible students should ensure that they are connected to the E-class platform. The examination of the course will be carried out via the EXERCISES of the E-class. Relevant instructions will be given and then the access to the EXERCISES entitled EXAMINATION TOPICS-DATE will be opened. Topics will include MULTIPLE-CHOICE SINGLE ANSWER QUESTIONS and/or MULTIPLE-CHOICE MULTIPLE-ANSWER QUESTIONS and/or MATCHING QUESTIONS (MATCH) and/or CORRECT-FALSE QUESTIONS. The time the students will have at their disposal will be on average 45 seconds for each question. In any case, it is up to the student to distribute the time as he/she wishes. The system will shut down automatically once the examination time is completed; after that, there is no possibility to submit the EXERCISE. Therefore, students are kindly requested to submit the EXERCISE on time. The available time is visible at the top of the EXERCISE page. When the attempt is completed, the EXERCISE is submitted by selecting "submit" at the bottom of the query page. Attention: there is only one attempt and there is no possibility of cancellation and restart. The SKYPE microphone remains muted throughout the exams; if there are questions or problems, the students are suggested to use the SfB chat. In order for the student to participate in the exams, he/she must read and accept the terms of his/her participation in the examination process. This can be done through the page <a href="https://students.duth.gr">https://students.duth.gr</a> and from the menu "Service", by going to the option "Participation in the next exam period". The instructor will then attach before the examination date the list of student AEMs who are eligible to participate in the exams.</p>

- (1) Please write YES or NO
- (2) Note down the evaluation methods used by the teacher, e.g.
  - *written assignment* or/and exercises
  - written or oral examination with distance learning methods, provided that the integrity and reliability of the examination are ensured.
- (3) In the **Implementation Instructions** section, the teacher notes down clear instructions to the students:
  - a) in case of **written assignment and / or exercises**: the deadline (e.g. the last week of the semester), the means of submission, the grading system, the grade percentage of the assignment in the final grade and any other necessary information.

b) in case of **oral examination with distance learning methods**: the instructions for conducting the examination (e.g. in groups of X people), the way of administration of the questions to be answered, the distance learning platforms to be used, the technical means for the implementation of the examination (microphone, camera, word processor, internet connection, communication platform), the hyperlinks for the examination, the duration of the exam, the grading system, the percentage of the oral exam in the final grade, the ways in which the inviolability and reliability of the exam are ensured and any other necessary information.

c) in case of **written examination with distance learning methods**: the way of administration of the questions to be answered, the way of submitting the answers, the duration of the exam, the grading system, the percentage of the written exam of the exam in the final grade, the ways in which the integrity and reliability of the exam are ensured and any other necessary information.

There should be an attached list with the Student Registration Numbers only of students eligible to participate in the examination.