

COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL AND FORESTRY SCIENCES		
DEPARTMENT	AGRICULTURAL DEVELOPMENT		
LEVEL OF STUDIES	7		
COURSE CODE	PAGR05	SEMESTER	2nd
COURSE TITLE	INSECT-PLANT INTERACTIONS		
TEACHING ACTIVITIES		TEACHING HOURS PER WEEK	ECTS CREDITS
	Lectures	3	7,5
COURSE TYPE	SKILL DEVELOPMENT		
PREREQUISITES:	No		
TEACHING & EXAMINATION LANGUAGE:	Greek English (Erasmus students)		
COURSE OFFERED TO ERASMUS STUDENTS:	Yes		
COURSE URL:	https://eclass.duth.gr/courses/OPE01193/		

2. LEARNING OUTCOMES

Learning Outcomes
Upon successful completion of the course the students will be able to understand: <ul style="list-style-type: none"> (a) the basic principles underlying insect – plant interactions (b) the effects of insect – plant interactions at the organism and population level (c) the practical implications of these effects and their application in plant protection
General Skills
Autonomous work Literature search, data analysis and synthesis Critical thinking

3. COURSE CONTENT

<ol style="list-style-type: none"> 1. Introduction to insect-plant interactions, importance, general definitions. 2. Plant characteristics that shape insect – plant relationships (chemical traits) 3. Plant characteristics that shape insect – plant relationships (morphological traits) 4. Plants as insect food source (nutrients, utilization, symbiotic microorganisms) 5. Host plant selection by herbivores 6. Plant defense against herbivores (I) 7. Plant defense against herbivores (II) 8. Ecology of insect-plant interactions 9. Evolution of insect-plant interactions 10. Beneficial insects (pollinators, natural enemies) in insect-plant interactions 11. Experimental protocols in insect-plant interactions studies (I) 12. Experimental protocols in insect-plant interactions studies (II) 13. Applied aspects of insect-plant interactions studies

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD	Face to face
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT)	Use of ICT in Teaching and in Communication with students

TEACHING ORGANIZATION	<i>Activity</i>	<i>Workload/semester</i>
	Lectures	39
	Literature research & analysis	23.5
	Independent learning	125
		187.5
STUDENT EVALUATION	Concluding Written Assignment (30%) Multiple Choice Test & Short Answer Questions (70%)	

5. SUGGESTED BIBLIOGRAPHY

1. Schoonhoven L.M., van Loon J.J.A. & M. Dicke (2005) Insect-Plant Biology. Oxford University Press. 421 p.
2. Schaller A. (2010) Induced Plant Resistance to Herbivory. Springer. Berlin. 462 p.

ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Maria Pappas
Contact details:	mpappa@agro.duth.gr
Supervisors:	YES
Evaluation methods:	Online exam
Implementation Instructions:	<p>Before the exam, a link to MS Teams which the students should follow on the day and time of the exam will be sent via e-class exclusively to the institutional accounts of the students who have registered for the course and declared to have accepted and understood the terms of distance learning and remote evaluation. MS Teams will be used for identification processes of the students via the demonstration of their academic identity. Students should also log in to the e-class page of the course using their institutional account. The exam will be available only to the registered users of the course who are eligible to participate in the exams. After logging in to e-class, students must select 'Exercises' from the options menu (left) and then the exercise entitled 'Exams'. The exam includes 5 questions and the duration of the exam is 60 minutes. From the beginning of the exam by the students, there will be a time limit of 40 minutes (at the top right of the screen, the students will be able to see the time left to complete the exam) per repetition. There is no limit in the number of repetitions allowed. However, the FIRST submitted exam will be the one to be considered. Participants must remain logged in to MS Teams during the exam. The procedure is governed by the rules described in the Code of Ethics and Good Practice of DUTH as well as the Policy for the Protection of Personal Data when using remote evaluation methods of DUTH.</p>