

COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCE		
ACADEMIC UNIT	FOOD SCIENCE AND TECNOLOGY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	FST_405	SEMESTER	4 ^o
COURSE TITLE	Agricultural Production II		
INDEPENDENT TEACHING ACTIVITIES <i>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</i>	WEEKLY TEACHING HOURS	CREDITS	
Lectures	3		
		5	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Field of Science (Plant Production, cultivation of fruit trees and grapevines)		
PREREQUISITE COURSES:	There are no prerequisite courses		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)			

2. LEARNING OUTCOMES

<p>Learning outcomes</p> <p><i>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.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i> <p>The main objective of the course is to provide basic knowledge about the cultivation of fruit trees and grapevines. Specific attention is given on the assessment of the main and new cultivation techniques as well as to the practices and technologies involved in the development, production and use of horticultural crops. Moreover, the course explores the prospects of horticulture and viticulture in different regions of the country with an emphasis on environmental impact on horticultural production efficiency. In order to achieve these objectives the course includes, principles such as the production capacity of a habitat, the farming systems, the planning of a farm's transition to organic farming, the quality of farming soils and irrigation water, soil fertility, crop rotation, plant protection and the production of quality agricultural products.</p> <p>At the end of this course the student will be able to:</p> <ul style="list-style-type: none"> • Apply theories and principles of growing fruit trees and vines in crop production • Define and describe the significance of horticulture in national economy • Demonstrate a working knowledge of the fundamental principles of plant growth and
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<p>development</p> <ul style="list-style-type: none"> • Apply the fundamentals of plant growth and utilize practical and novel applications in horticulture • Explain, evaluate, and effectively interpret current technologies in horticultural production 																		
<p>General Competences</p> <p><i>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?</i></p> <table border="0"> <tr> <td><i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i></td> <td><i>Project planning and management</i></td> </tr> <tr> <td><i>Adapting to new situations</i></td> <td><i>Respect for difference and multiculturalism</i></td> </tr> <tr> <td><i>Decision-making</i></td> <td><i>Respect for the natural environment</i></td> </tr> <tr> <td><i>Working independently</i></td> <td><i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i></td> </tr> <tr> <td><i>Team work</i></td> <td><i>Criticism and self-criticism</i></td> </tr> <tr> <td><i>Working in an international environment</i></td> <td><i>Production of free, creative and inductive thinking</i></td> </tr> <tr> <td><i>Working in an interdisciplinary environment</i></td> <td><i>.....</i></td> </tr> <tr> <td><i>Production of new research ideas</i></td> <td><i>Others...</i></td> </tr> <tr> <td></td> <td><i>.....</i></td> </tr> </table>	<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>	<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>	<i>Decision-making</i>	<i>Respect for the natural environment</i>	<i>Working independently</i>	<i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i>	<i>Team work</i>	<i>Criticism and self-criticism</i>	<i>Working in an international environment</i>	<i>Production of free, creative and inductive thinking</i>	<i>Working in an interdisciplinary environment</i>	<i>.....</i>	<i>Production of new research ideas</i>	<i>Others...</i>		<i>.....</i>
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<p>By the end of this course the student will, furthermore, have developed the following skills (general abilities):</p> <p>Search, analyze and synthesize data and information, using the necessary technologies</p> <p>Exercise of criticism and self-criticism</p> <p>Autonomous Work</p>																		

3. SYLLABUS

<p>The course consists of the following thematic units:</p> <p>Horticulture in Greece and world-Geographical distribution</p> <p>Propagation</p> <p>Orchard establishment</p> <p>Mineral nutrition</p> <p>Pruning and training</p> <p>Irrigation Management</p> <p>Fruit Harvesting and storage</p> <p>Precision Horticulture</p> <p>Diseases and Pests</p> <p>Varieties</p>
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4. TEACHING and LEARNING METHODS - EVALUATION

<p>DELIVERY</p> <p><i>Face-to-face, Distance learning, etc.</i></p>	<p>Face-to-face</p>
<p>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</p> <p><i>Use of ICT in teaching, laboratory education, communication with students</i></p>	<p>Use of Information and Communication Technologies (ICTs) (e.g. powerpoint) in teaching.</p> <p>Communication with students: through e-mail, department's website and platform e-class.</p> <p>The lectures content of the course for each chapter are uploaded on the internet, in the form of a series of .pdf files, where students can freely download them from the platform e-class.upatras.gr</p>

TEACHING METHODS	Activity	Semester workload
<p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>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.</i></p> <p><i>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</i></p>	Lectures (3 hours per week x 13 weeks)	39
	Final examination (3 hours)	3
	Non-guided study	83
	Total number of hours for the Course (25 hours of work-load per ECTS credit)	125
<p>STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Written examination after the end of the semester (100%) including:</p> <ul style="list-style-type: none"> • Multiple-choice questions • Benchmarking theory elements <p>Grading scale: 1 to 10. Minimum passing grade: 5. Examination time: 3 hours.</p>	

5. ATTACHED BIBLIOGRAPHY

1. M. Vassilakakis (2004). General and Special arboriculture, Garthaganis Publications, ISBN 960-7013-27-1, (in Greek).
2. M. Vlachos (1994). Elements of General Viticulture, Publications of Aristotle University of Thessaloniki, (in Greek).
3. Winkler A.J., Cook J.A., Kliewer M., Lider L.A., (1975). General viticulture, University of California Press, ISBN: 9780520025912.
4. D. Stavrakas (1999). General Viticulture Courses, Publications of Aristotle University of Thessaloniki, (in Greek).