

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	AGRICULTURAL SCIENCE		
<b>ACADEMIC UNIT</b>	FOOD SCIENCE AND TECNOLOGY		
<b>LEVEL OF STUDIES</b>	UNDERGRADUATE		
<b>COURSE CODE</b>	<b>FST_X05</b>	<b>SEMESTER</b>	7 <sup>o</sup>
<b>COURSE TITLE</b>	Modern trends in Plant Production		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <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>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
Lectures	3		
Seminars	1		
		5	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialised general knowledge, skills development</i>	Specialized general knowledge Field of Science (Modern trends in Plant Production)		
<b>PREREQUISITE COURSES:</b>	There are no prerequisite courses		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	No		
<b>COURSE WEBSITE (URL)</b>			

### 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 syllabus intends to provide new insights regarding the implementation of novel techniques and methodologies in various cultivation processes (nutrients and herbicides as well as irrigation water applications). New tools and techniques concerning all aspects of the agricultural production (including the methodologies for traceability and authenticity in foods) will be included.

#### 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*

*Project planning and management*  
*Respect for difference and multiculturalism*  
*Respect for the natural environment*  
*Showing social, professional and ethical responsibility and*

<i>Working independently</i>	<i>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>

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

- Autonomous work
- Decision making on farm management
- Teamwork
- Respect for the natural environment
- Working in an interdisciplinary environment
- Project design and management
- Producing new research ideas

### 3. SYLLABUS

<ul style="list-style-type: none"> <li>• Definition of modern trends in Plants Production</li> <li>• Novel cultivation methodologies and techniques</li> <li>• New tools for traceability and authenticity of agricultural products</li> <li>• Comparative evaluation of modern methodologies at economical and environmental level</li> </ul>
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### 4. TEACHING and LEARNING METHODS - EVALUATION

<b>DELIVERY</b> <i>Face-to-face, Distance learning, etc.</i>	Face-to-face	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of Information and Communication Technologies (ICTs) (e.g. powerpoint) in teaching. Communication with students: through e-mail, department's website and platform e-class. 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	
<b>TEACHING METHODS</b>  <i>The manner and methods of teaching are described in detail.</i>  <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>  <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>	<b>Activity</b>	<b>Semester workload</b>
	Lectures (3 hours per week x 13 weeks)	39
	Seminars (1 hour per week x13)	13
	Developing a project of modern trends in Plant Production	25
	Final examination (3 hours)	3
	Non-guided study	45
<b>Total number of hours for the Course (25 hours of work-load per ECTS credit)</b>	<b>125</b>	

<p style="text-align: center;"><b>STUDENT PERFORMANCE EVALUATION</b></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"> <li>• Multiple-choice questions</li> <li>• Benchmarking theory elements</li> </ul> <p>I. Written final exam (70%) comprising:</p> <ul style="list-style-type: none"> <li>- Short answer questions or multiple-choice questions</li> <li>- Solving problems related to organic products</li> <li>- Comparative evaluation of the theory</li> </ul> <p>II. Presentation of teamwork (30%)</p> <ul style="list-style-type: none"> <li>- Delivering written works and public presentation by Working Groups</li> </ul> <p>Grading scale: 1 to 10. Minimum passing grade: 5. Examination time: 3 hours.</p>
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## 5. ATTACHED BIBLIOGRAPHY

<ol style="list-style-type: none"> <li>1. Fountas S., Gemtos T., 2015. Precision Agriculture. <a href="http://hdl.handle.net/11419/2670">http://hdl.handle.net/11419/2670</a></li> <li>2. Olympios Ch. (2001). The technique of growing vegetables in greenhouses, Publishing Embryo, ISBN: 9789603513759</li> </ol>
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