

## 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>	FST_304	<b>SEMESTER</b>	3 <sup>o</sup>
<b>COURSE TITLE</b>	Agricultural Production I		
<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		
		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>	Field of Science (Plant Production, field crops)		
<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

<p><b>Learning outcomes</b></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"> <li>• <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i></li> <li>• <i>Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul> <p>The main objective of the course is to provide basic knowledge about the cultivation of field crops. 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 field crops. Moreover, the course explores the prospects of agriculture in different regions of the country with an emphasis on environmental impact on agriculture 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"> <li>• Apply theories and principles of growing in arable crop production</li> <li>• Define and describe the significance of arable crops in national economy</li> <li>• Demonstrate a working knowledge of the fundamental principles of plant growth and</li> </ul>
---

development

- Apply the fundamentals of plant growth and utilize practical and novel applications in agriculture
- Explain, evaluate, and effectively interpret current technologies in arable crop production

### 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*

*Working in an international environment*

*Working in an interdisciplinary environment*

*Production of new research ideas*

*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*

*Production of free, creative and inductive thinking*

*.....*

*Others...*

*.....*

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

Search, analyze and synthesize data and information, using the necessary technologies

Exercise of criticism and self-criticism

Autonomous Work

### 3. SYLLABUS

The course consists of the following thematic units:

Arable crops in Greece and world-Geographical distribution

Propagation

Arable crops establishment

Mineral nutrition

Pruning and training

Irrigation Management

Harvesting and storage

Precision Horticulture

Diseases and Pests

Varieties

### 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>	<b>Activity</b>	<b>Semester workload</b>
<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
	<b>Total number of hours for the Course (25 hours of work-load per ECTS credit)</b>	<b>125</b>
<p><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>Grading scale: 1 to 10. Minimum passing grade: 5. Examination time: 3 hours.</p>	

## 5. ATTACHED BIBLIOGRAPHY

1. Bilalis D., Papastylianou P., Travlos I. S., 2019. Agriculture arable crops, Pedio. ISBN 9789605460396
2. Karamanos A., 2011 General agriculture, Papazisi. ISBN 978-960-02-2623-2