

☀️ Open Field Vegetable Production

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	AGRICULTURE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	AGR_902	SEMESTER OF STUDIES	9 ^o
COURSE TITLE	Open Field Vegetable Production		
FACULTY MEMBER			
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		
Lab exercises	2		
Total	5	5	
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Specialized general knowledge		
PREREQUISITE COURSES:	Typically, there are no prerequisite courses		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (English)		
COURSE WEBPAGE (URL)			

2. LEARNING OUTCOMES

Learning outcomes

- 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

The course aims to familiarize students with entrepreneurial cultivation of vegetables in open field. Information provided is focused on physiological mechanisms of growth, development and production of winter and selected summer vegetables. By the end of this course the student will have developed the following skills using frontline know-how on vegetable production in order to achieve high quality and market competitiveness. In addition students will be able to consult farmers and agricultural firms for vegetable propagation techniques and to apply proper agricultural practices which can lead to successful certification, packaging and distribution to the market.

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 Project planning and management
 Respect for difference and multiculturalism

<i>information, with the use of the necessary technology</i>	<i>Respect for the natural environment</i>
<i>Adapting to new situations</i>	<i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i>
<i>Decision-making</i>	<i>Criticism and self-criticism</i>
<i>Working independently</i>	<i>Production of free, creative and inductive thinking</i>
<i>Team work</i>
<i>Working in an international environment</i>	<i>Others...</i>
<i>Working in an interdisciplinary environment</i>
<i>Production of new research ideas</i>	

<ul style="list-style-type: none"> • Information/data search using technology tools • Decision making • Autonomous (Independent) work • Team work • Project planning and management • Respect for the environment • Adaptation to environmental changes under optimum, suboptimum and extreme conditions. • Production of new research ideas • Promotion of free, creative and inductive thinking
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3. SYLLABUS

<p>Lectures</p> <ol style="list-style-type: none"> 1. Tomato crop field cultivation techniques 2. Potato crop cultivation techniques 3. Cucurbitaceae (melon, cucumber) cultivation techniques 4. Cucurbitaceae (watermelon, zucchini) cultivation techniques 5. Leafy green vegetables (lettuce, radish, endive) cultivation techniques 6. Brassicaceae (cabbage, broccoli, cauliflower) cultivation techniques 7. Bulbous vegetables (onion, garlic, leek) cultivation technique 8. Legume vegetables (peas, chickpeas, beans) cultivation technique 9. Asparagus cultivation technique 10. Artichoke cultivation technique 11. Umbelliferae (carrot, celery, dill, parsley) cultivation technique 12. Amaranthaceae (beetroot, white beet, spinach) cultivation technique 13. Okra cultivation technique <p>Laboratory exercises</p> <ol style="list-style-type: none"> 1. Potato propagation 2. Propagation, pruning, tying up and support of tomato plant 3. Propagation, grafting, pruning, tying up and support cucumber and watermelon plants 4. Lettuce propagation 5. Bulbous vegetables propagation 6. Asparagus and artichokes propagation

4. TEACHING AND LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Lectures, self-tests of students and problem-solving seminars., face to face.	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of Information and Communication Technologies (ICTs) in teaching. Scenarios in silico and evaluation of olive culture data will be integrated in the course. Exemplary solutions will be provided.	
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i>	Activity	Semester workload

<p>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.</p> <p>The student's study hours for each learning activity are given as well as the hours of nondirected study according to the principles of the ECTS</p>	Lectures (3 conduct hours per week x 13 weeks)	39
	Lab Practice (2 conduct hour per week x 6 weeks)	12
	Lab reports	6
	Hours for private study of the student, preparation and attendance mid-term or/and final examinations.	68
	Total number of hours for the Course (25 hours of work-load per ECTS credit)	125 hours (total student work-load)
<p>STUDENT PERFORMANCE EVALUATION</p> <p>Description of the evaluation procedure</p> <p>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</p> <p>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</p>	<p>Student performance evaluation will be explained to the students at the beginning of the course/beginning of the semester.</p> <ol style="list-style-type: none"> 1. Mandatory final written examination for lectures / theoretical part of the course, comprises 60% of the final mark of the student. 2. Mandatory final written examination for the transferred laboratory skills of the course, comprises 40% of the final mark of the student. <p>Minimum pass mark: 5 (full scale: 0-10)</p> <ol style="list-style-type: none"> 1. The above mentioned process will be taking place in Greek and for foreign students (eg ERASMUS students) in English. Examination will be based on full length questions and / or multiple choice questions. 2. Oral examination could take place if permitted by the legal/regulatory framework under which the student is affiliated (or enrolled) to the department. If permitted, oral examination will take place simultaneously with written exams. 	

5. ATTACHED BIBLIOGRAPHY

Proposed literature (indicative and not restrictive):

1. Χα, Ι.Α., Πετρόπουλος, Σ., 2014. Γενική Λαχανοκομία και Υπαίθρια Καλλιέργεια Κηπευτικών. Πανεπιστημιακές Εκδόσεις Θεσσαλίας, Βόλος.
2. Ολύμπιος, Χ., 2015. Η Τεχνική της καλλιέργειας των Υπαίθριων Κηπευτικών. Εκδόσεις Σταμούλης, σελ. 888

Proposed research journals for further reading (indicative and not restrictive):

1. HortScience
2. Journal of Horticultural Science and Biotechnology