COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	AGRICULTURE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	AGRI EX15	SEMESTER OF STUDIES	7 th or 9 th
COURSE TITLE	ORGANIC AGRICULTURE		
FACULTY MEMBER			
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		WEEKLY TEACHING HOURS	CREDITS
Lectures		2	
Lab exercises		2	
	Total 4 5		
COURSE TYPE	Specialized general knowledge		
general background, special background, specialised general knowledge, skills development PREREQUISITE COURSES:	Typically, there are no prerequisite courses		
LANGUAGE OF INSTRUCTION	Greek. Teaching may be performed in English in case foreign		
and EXAMINATIONS:	students attend the course.		
IS THE COURSE OFFERED TO	Yes (English)		
ERASMUS STUDENTS			
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 introduce students into principles of Organic Agriculture in order to be able to apply alternative methods of cropping. By the end of this course the student will have developed the following skills:

- Be able to understand the principles of organic agriculture.
- Knowing historical elements and future trends in organic agriculture.
- Be informed for the regulatory framework for verification process and labeling of organic products.
- Be able to understand affecting parameters of organic agriculture (soil, propagation material, fertilization, pest and weed control, water management, harvest and postharvest processing).
- Be able to understand organic product certification processes, focusing on critical points of control per certification process and crop.

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 Project planning and management

and Respect for difference and multiculturalism

information, with the use of the necessary Respect for the natural environment

technology Showing social, professional and ethical responsibility

Adapting to new situations and sensitivity to gender issues

Decision-making Criticism and self-criticism

Working independently Production of free, creative and inductive thinking

Team work .

Working in an international environment Others...

Working in an interdisciplinary

environment

Production of new research ideas

 Search, analysis, data synthesis and information management, using necessary technological systems

- Autonomous work
- Group work
- Promotion of free, creative and inductive thinking
- · Respecting natural resources
- Design and project management
- Interactions in global context.
- Decision making

3. SYLLABUS

Lectures

- 1. History of organic agriculture movements globally and in Greece.
- 2. Global and national regulatory framework.
- 3. Operational management and verification of organic products in Greece
- 4. Organic agriculture and environmental parameters.
- 5. Soil fertility and managerial ways of soil fertility to organic agriculture.
- 6. Crop fertilization and nutritive elements management in organic agriculture.
- 7. Fundamental principles in organic production: Soil sustainability and ecosystems.
- 8. Management of plant wastes.
- 9. Co-cropping, intercropping and related actions.
- 10. Crop protection and agrochemicals in organic agriculture.
- 11. Certification Validation process & Checks Transportation of organic products.
- 12. Packaging, ad and promotion of organic products.
- 13. Qualitative elements of organic agriculture products.

4. TEACHING AND LEARNING METHODS - EVALUATION

DELIVERY	Lectures, self-tests of students and problem-solving
Face-to-face, Distance learning,	seminars., face to face.
etc.	
USE OF INFORMATION AND	Use of Information and Communication Technologies (ICTs) in
COMMUNICATION	teaching. Scenarios in silico and evaluation of organic
TECHNOLOGIES	agriculture data will be integrated in the course.

Use of ICT in teaching, labore	atory
education, communication	with
stud	lents

Exemplary solutions will be provided.

TEACHING METHODS

The manner and methods of teaching are described in detail.

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.

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

Activity	Semester workload
Lectures (2 conduct hours per	26
week x 13 weeks)	
Tutorials (2 conduct hour per	26
week x 13 weeks)	
Individual report	10
Hours for private study of the	63
student, preparation and	
attendance mid-term or/and	
final examinations.	
Total number of hours for the	125 hours (total
Course (25 hours of work-load	student
per ECTS credit)	work-load)

STUDENT PERFORMANCE EVALUATION

Description of the evaluation procedure

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

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

Strong participation in the course is required. Projects need deep learning approach and student's critical thought. Final written examination is mandatory. Examination will be based on full length questions and / or multiple-choice questions.

Minimum pass mark: 5 (full scale: 0-10)

The above-mentioned process will be taking place in Greek and for foreign students (eg ERASMUS students) in English.

5. ATTACHED BIBLIOGRAPHY

Proposed literature (indicative and not restrictive):

- 1. Altieri M.A. (2018). Agroecology: the science of sustainable agriculture. CRC Press
- 2. Gliessman S.R., Rosemeyer M. (2009). The conversion to sustainable agriculture: principles, processes, and practices. CRC Press.
- 3. Σιάρδος Γ., Κουτσούρης, Α. (2011), Αειφορική Γεωργία & Ανάπτυξη Θεσσαλονίκη, Ζυγός.

- 4. Σιδηράς, Ν. (2005). Βιολογική Γεωργία και Φυτική Παραγωγή. Αθήνα, ΔΗΩ.
- 5. Φωτόπουλος, Χ. (2000), Βιολογική γεωργία κόστος, αποδοτικότητα, ανάλυση αγοράς & στρατηγικές marketing. Αθήνα, Σταμούλη.

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

- 1. HortScience
- 2. Journal of Horticultural Science and Biotechnology