

COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	AGRICULTURE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	AGR_809	SEMESTER OF STUDIES	8 th
COURSE TITLE	Integrated Management of Agricultural Production		
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		
Seminars	1		
Total	4	5	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (4).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Specialised general knowledge, skills development		
PREREQUISITE COURSES:	Typically, there are no prerequisite courses.		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek. Teaching may be performed in English in case foreign students attend the course.		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)		
COURSE WEBPAGE (URL)			

2. LEARNING OUTCOMES

<p>Learning outcomes <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> <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 aim of the course is to introduce students to key issues of integrated management in agricultural production, as well as respect for and protection of the environment and to highlight the quality of agricultural products as the highest approach. Also, the objective of the course is acquiring knowledge on legal requirements, on the specifications for agricultural products, as well as on the information about significant environmental impacts. Students will be able to understand</p> <ul style="list-style-type: none"> • the requirements of integrated management for crop application (propagating material, care of cultivation, soil management, plant nutrition, irrigation, plant protection, harvesting and post-harvesting, equipment management, pollutants, environment, safety and employee training) • the legal requirements and specifications for agricultural products • the information about important environmental impact
<p>General Competences <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>

<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i> <i>Adapting to new situations</i> <i>Decision-making</i> <i>Working independently</i> <i>Teamwork</i> <i>Working in an international environment</i> <i>Working in an interdisciplinary environment</i> <i>Production of new research ideas</i>	<i>Project planning and management</i> <i>Respect for difference and multiculturalism</i> <i>Respect for the natural environment</i> <i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i> <i>Criticism and self-criticism</i> <i>Production of free, creative and inductive thinking</i> <i>Others...</i>
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Generally, by the end of this course the student will, moreover, have developed the following general abilities (from the list above):

Search for, analysis and synthesis of facts and information, as well as using the necessary technologies

Decision making

Project planning and management

Respect for the natural environment

Working independently

Promotion of free, creative and inductive thinking

3. SYLLABUS

Theory

1. Definitions, standards, requirements and history of Integrated Management in Agricultural Production
2. International, European and national standards for Agricultural Products
3. Integrated Management System Certification
4. Integrated Management System standard requirements (planning, principles of production, traceability of agricultural products)
5. Requirements of Integrated management systems (propagating material, Cultivation, Plant nutrition, water management plan)
6. Management of plant protection
7. Harvesting and post harvesting
8. Equipment and energy management
9. Pollution management, environment, biodiversity
10. Hygiene, safety and employee training
11. Integrated management of horticultural crops
12. Integrated management of tree crops
13. Integrated management of arable crops

4. TEACHING AND LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face to face lectures in the classroom.	
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) (e.g. Microsoft PowerPoint) in teaching. The contents of the course of each chapter are uploaded on the internet, which the students can freely download using a password that is provided to them at the beginning of the course.	
TEACHING METHODS <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</i>	Activity	Semester workload
	Lectures (3 contact hours per week x 13 weeks)	39
	Seminars (1 contact hour per week x 13 weeks)	13
	Hours for private study of the student, preparation and attendance mid-term or/and final examinations.	73
	Total number of hours for the Course (25 hours of workload per ECTS credit)	125 hours (total student workload)

<i>ECTS</i>	
<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>	<ul style="list-style-type: none"> i. Written final examination of the lesson Minimum probable grade: 5. ii. All the above are taking place in the Greek language and for the foreign students (e.g. ERASMUS students) in English. iii. Oral examination can be made to students who have written tests on the same day and time that the progress or written examination of the course will take place. iv. Theory: Final Exam (100%) written of increasing difficulty, which may include multiple choice test, questions of short answers, questions on topic development, open-ended questions, essays and exercise solving based on the theoretical topics presented at the courses.

5. ATTACHED BIBLIOGRAPHY

Suggested bibliography:

- Bohlen PJ and House G, (2009). Sustainable agroecosystem management: integrating ecology, economics, and society. CRC Press.
- Εθνικά Πρότυπα Ολοκληρωμένης Διαχείρισης στην Αγροτική Παραγωγή και κτηνοτροφία (Σειρά AGRO).
- Πολυράκης, Γ. Θ. (2003). Περιβαλλοντική γεωργία. Θεσσαλονίκη, Εκδόσεις Ψύχαλου.