

COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	AGRICULTURE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	AGR_805	SEMESTER	8 th
COURSE TITLE	Aromatic and Medicinal Plants		
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		
laboratory exercises	2		
TOTAL	5	5	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</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 WEBSITE (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 basic issues of aromatic and medicinal plants and to teach them the uses and properties of aromatic and medicinal plants. After graduating from the course, students will be able to comprehend:</p> <ul style="list-style-type: none"> • botanical classification and basic characteristics of plants (morphology, development and environmental and soil requirements - crop areas), • specific technical knowledge related to the cultivation and processing of aromatic and medicinal plants, • their uses and products, as well as their economic importance. 																	
<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> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i></td> <td style="width: 50%; border: none;"><i>Project planning and management</i></td> </tr> <tr> <td style="border: none;"><i>Adapting to new situations</i></td> <td style="border: none;"><i>Respect for difference and multiculturalism</i></td> </tr> <tr> <td style="border: none;"><i>Decision-making</i></td> <td style="border: none;"><i>Respect for the natural environment</i></td> </tr> <tr> <td style="border: none;"><i>Working independently</i></td> <td style="border: none;"><i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i></td> </tr> <tr> <td style="border: none;"><i>Team work</i></td> <td style="border: none;"><i>Criticism and self-criticism</i></td> </tr> <tr> <td style="border: none;"><i>Working in an international environment</i></td> <td style="border: none;"><i>Production of free, creative and inductive thinking</i></td> </tr> <tr> <td style="border: none;"><i>Working in an interdisciplinary environment</i></td> <td style="border: none;"><i>.....</i></td> </tr> <tr> <td style="border: none;"><i>Production of new research ideas</i></td> <td style="border: none;"><i>Others...</i></td> </tr> </table>		<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>	<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>	<i>Decision-making</i>	<i>Respect for the natural environment</i>	<i>Working independently</i>	<i>Showing social, professional and ethical responsibility and 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>
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Search for, analysis and synthesis of data and information, with the use of the necessary technologies
 Respect for the natural environment
 Decision-making
 Working independently
 Teamwork
 Production of free, creative and inductive thinking
 Criticism and self-criticism
 Adapting to new situations

3. SYLLABUS

Theory

1. A historical overview and the significance of Aromatic and Medicinal Plants
2. Global, European and Greek reality of Aromatic and Medicinal plants.
3. Botanical classification, description, biology and ecology.
4. Measures for the conservation and exploitation of the wild flora in their natural environment.
5. Main cultivated aromatic and medicinal plants.
6. Technique for the cultivation of plants of great importance for our country (propagating material, criteria for selection of aromatic and medicinal plants).
7. Cultivation, control of weeds, pests and diseases.
8. Application of Integrated Management in aromatic and medicinal plants.
9. Criteria and methods of harvesting-harvesting
10. Maintenance (fresh aromatic and medicinal plants, plant drying)
11. Packaging standardization, dry landing, quality control of rollers.
12. Aromatic and medicinal plants of particular economic interest.
13. Chemical Composition and Biological Activities of Essential Oils

Laboratory Exercises

- Terminology, and presentation of aromatic medicinal plants
- Plants that thrive in the Greek countryside: oregano, mountain tea.
- Plants of particular importance: Chios mastic, Kozani saffron, edible wild greens.
- Cultivation of aromatic and medicinal plants in pots.
- Collection and post-harvest management of aromatic products.
- Observation, collection (sampled) of fragrances in the natural environment
- Educational trip

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face-to-face (Lectures in the class, lab and field exercises)	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Power point presentations, i-books, videos, Educational process is supported by the online platform e-class.	
TEACHING METHODS <i>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 non-directed study according to the principles of the ECTS</i>	Semester workload	
	Lectures (3 contact hours per week x 13 weeks)	39
	Laboratory practice (2 contact hours per week x 7 weeks)	14
	Project, essay writing	15
	Hours for private study of the student and preparation for mid-term or/and final examination – Participation in the	47

	examinations	
	Educational visits	10
	Course total	125 hours
<p align="center">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>	<p>i. Written final examination of the lesson Minimum probable grade: 5.</p> <p>ii. All the above are taking place in the Greek language and for the foreign students (e.g. ERASMUS students) in English.</p> <p>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.</p> <p>iv. Theory: Final Exam (60%) 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.</p> <p>v. Laboratory: Final Exam (40%). The examination in the laboratory part of the course includes Questions from laboratory syllabus and from group and atomic assignments</p> <p>The final Course mark is the average of the marks on Theory and Lab.</p>	

5. ATTACHED BIBLIOGRAPHY

- Bogers RJ, Craker LE, and Lange D, (2006). Medicinal and aromatic plants: agricultural, commercial, ecological, legal, pharmacological and social aspects.
- Δόρδας Χ, (2012), Αρωματικά και Φαρμακευτικά Φυτά. Εκδόσεις Σύγχρονη Παιδεία.
- Κουτσός Θ, (2006). Αρωματικά και φαρμακευτικά φυτά. Εκδόσεις Ζήτη, 185 σελ