COURSE OUTLINE

1. GENERAL					
SCHOOL	APPLIED ECONOMIC AND SOCIAL SCIENCES				
ACADEMIC UNIT	AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT				
LEVEL OF STUDIES	Undergraduate				
COURSE CODE	5707		SEMESTER	7tł	ı
COURSE TITLE	AROMATIC - MEDICINAL PLANTS				
INDEPENDENT TEACHI	NG ACTIVITIES		WEEKLY TEACHING HOURS	ì	CREDITS
	Lectures		3		5
Laboratory Exercises		2		5	
COURSE TYPE	In-Depth Ana	lysis			
PREREQUISITE COURSES	NO				
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek				
IS THE COURSE OFFERED for ERASMUS STUDENTS?	YES (in English)				
COURSE WEBSITE (URL)	https://oeclass.aua.gr/eclass/				

2. LEARNING OUTCOMES

Learning Outcomes

The aim of the course is:

The course aims to acquaint students with special knowledge related to the technique of cultivation of aromatic and medicinal plants, the active substances of essential oils, market requirements, botanical description, soil-climatic requirements and their adaptability to varieties, in the methods of receipt and industrial uses of essential oils and aromatic substances, as well as in the technological processing and marketing of aromatic and medicinal plants.

Upon successful completion of the course the student will be able to:

- recognize the most important aromatic and medicinal plants of Greece, as well as their properties and uses
- understands how they work and the techniques available for their use
- applie techniques, during cultivation and after harvest, aimed at obtaining high yields of essential oil with chemotypes

distinguish characteristics that meet the requirements of industry and markets

General Competences

Adapting to new situations

Decision-making

Working independently

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas Teamwork

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

3. SYLLABUS

For the main aromatic and medicinal plants are examined: General elements - origin and distribution, economic importance and uses, development, adaptability (climatic and soil requirements), cultivation technique (crop rotation, soil treatment, inorganic nutrition and fertilization, sowing, water requirements and irrigation, maturation and harvest, main enemies and diseases), products and quality characteristics. Methods of receipt of essential oils and determination of the active ingredients of the essential oils. The effects of the active substances and the poisonous substances they contain on humans are also examined. At the same time, detailed data on the various extraction methods and types of aromatic extracts are provided, as well as additional data on prices and trends in international markets. Finally, the possibility of organizing agricultural units for cultivation and processing of aromatic and medicinal plants is studied. The aromatic and medicinal plants that are studied are the following:

- 1. Oregano Thyme Marjoram
- 2. Mountain tea
- 3. Honeysuckle Mint
- 4. Basil
- 5. Lavender
- 6. Sage
- 7. Sea fennel
- 8. Hypericum Calendula
- 9. Chamomile
- 10. Anise-Rosemary-Fennel
- 11. Artemisia-Achilles-Valerian
- 12. Crocus
- 13. Coriander-Cumin

A combination of teaching and learning methods will be used, aiming at the active participation of the students and the practical application of the thematic units under examination; there will also be lectures using audiovisual media, discussions, and analyses of case studies on real business issues, experiential (group) activities, as well as projections of relevant videos. The students will also undertake an individual or group project. Furthermore, articles, audiovisual lecture materials, web links/addresses, useful information, case studies and exercises for further practice are posted in digital form on the AUA Open e-Class platform.

4. TEACHING and LEARNING METH			
DELIVERY	Face -to-face, Distance learning		
USE OF INFORMATION and COMMUNICATIONS TECHNOLOGY TEACHING METHODS	 Support of the learning process through the University's AUA Open eClass platform (integrated e- Course Management System) Support of lectures using presentation software Use of audiovisual material Use of web applications Communication with students: face-to-face at office hours, email, eclass platform Activity Workload Lectures (direct) 39 Laboratory Practice 26		
	Essay Writing Autonomous study Advisory Support Examination Laboratory Examination Total (About 25 hours of study per ECTS)	20 36 0,5 2 2 125,5	
STUDENT PERFORMANCE EVALUATION	 The evaluation process is in the language that the course is taught (Greek or English) and consists of: Compulsory written final examination at the end of the semester (weighting factor 70% at least) which may includes: Multiple choice questionnaires Open-ended questions Problem solving Oral examination Evaluation criteria: correctness, completeness, clarity 		

4. TEACHING and LEARNING METHODS - EVALUATION

 ii. Optional written exam or essay during the semester (weighting factor 30%) which may includes: Multiple choice questionnaires Open-ended questions Problem solving Essay/report Oral examination Evaluation criteria: correctness, completeness, clarity 	
Special learning difficulties:	
Students with special learning difficulties in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department.	
Specifically-Defined Criteria:	
The evaluation criteria are made known during the	
first lesson and are clearly stated on the course website and the AUA Open e-class platform. The	
answers to the exam questions are posted on the AUA	
Open e-Class platform after the exam. The students	
are allowed to see their exam paper after its grading	
(during the announced office hours) and receive	
explanations about the grade they received.	

5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Δόρδας, Χ. (2012). Αρωματικά και Φαρμακευτικά Φυτά. Εκδόσεις ΣΥΓΧΡΟΝΗ ΠΑΙΔΕΙΑ, Θεσσαλονίκη.
- Κατσιώτης, Σ.Θ. & Χατζοπούλου, Π.Σ. (2015). Αρωματικά φαρμακευτικά φυτά καιαιθέρια έλαια. Εκδόσεις Κυριακίδη.

Suggested Bibliography in English Language:

• Mattias, A. & Laisne, N. (2017). *Medicinal plants: Production, Cultivation and Uses*. Nova Science Publishers.

Related academic journals:

- Industrial Crops and Products
- Journal of Applied Research on Medicinal and Aromatic Plants
- Phytochemistry
 Journal of Ethnopharmacology
 Instructor's Notes