

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	SCHOOL OF SCIENCES		
<b>DEPARTMENT</b>	DEPARTMENT OF CHEMISTRY		
<b>LEVEL OF STUDIES</b>	ISCED level 6 – Bachelor’s or equivalent level		
<b>COURSE CODE</b>	EN11	<b>SEMESTER</b>	7 <sup>th</sup> or 8 <sup>th</sup> Semester
<b>COURSE TITLE</b>	Viticulture		
<b>TEACHING ACTIVITIES</b>		<b>TEACHING HOURS PER WEEK</b>	<b>ECTS CREDITS</b>
<i>If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.</i>			
Theory		3	
		3	3
<i>Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.</i>			
<b>COURSE TYPE</b> <i>Background, General Knowledge, Scientific Area, Skill Development</i>	Specialized Background, Specialization, Skills Development		
<b>PREREQUISITES:</b>	NO		
<b>TEACHING &amp; EXAMINATION LANGUAGE:</b>	GREEK		
<b>COURSE OFFERED TO ERASMUS STUDENTS:</b>	NO		
<b>COURSE URL:</b>			

### (2) LEARNING OUTCOMES

<b>Learning Outcomes</b> <i>Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.</i>	
<p>The course aims to introduce students to the fundamental concepts of Viticulture. Upon successful completion of the course, the student will have acquired the following skills:</p> <ol style="list-style-type: none"> <li>1. To understand the basic principles of Viticulture.</li> <li>2. To understand terms and processes related to Viticulture, such as: <ul style="list-style-type: none"> <li>• History and origin of the grapevine</li> <li>• Morphology and anatomy of the grapevine</li> <li>• Annual growth cycle of the grapevine</li> <li>• Reproduction of the grapevine</li> <li>• Developmental physiology of the grapevine</li> <li>• Propagation of the grapevine</li> <li>• Establishment of a productive vineyard</li> <li>• Grapevine pruning</li> <li>• Cultivation practices</li> </ul> </li> <li>3. To understand the importance of modern viticulture for the production of wine and its valuable by-products.</li> </ol>	
<b>General Skills</b> <i>Name the desirable general skills upon successful completion of the module</i>	
<i>Search, analysis and synthesis of data and information,</i>	<i>Project design and management</i>
<i>ICT Use</i>	<i>Equity and Inclusion</i>
<i>Adaptation to new situations</i>	<i>Respect for the natural environment</i>
<i>Decision making</i>	<i>Sustainability</i>
<i>Autonomous work</i>	<i>Demonstration of social, professional and moral responsibility and</i>

<i>Teamwork</i>	<i>sensitivity to gender issues</i>
<i>Working in an international environment</i>	<i>Critical thinking</i>
<i>Working in an interdisciplinary environment</i>	<i>Promoting free, creative and inductive reasoning</i>
<i>Production of new research ideas</i>	

More generally, upon completion of the course, the student will have further developed the following general competences:

- Searching for, analyzing and synthesizing data and information, using the necessary technologies
- Adaptation to new situations
- Decision-making
- Autonomous work
- Teamwork
- Exercise of criticism and self-criticism
- Respect for the natural environment
- Promotion of free, creative and inductive thinking

### (3) COURSE CONTENT

<ol style="list-style-type: none"> <li>1. History and origin of the grapevine</li> <li>2. Morphology and anatomy of the grapevine</li> <li>3. Annual growth cycle of the grapevine</li> <li>4. Reproduction of the grapevine</li> <li>5. Developmental physiology of the grapevine</li> <li>6. Propagation of the grapevine</li> <li>7. Establishment of a productive vineyard</li> <li>8. Grapevine pruning</li> <li>9. Cultivation practices</li> <li>10. Modern viticulture for wine production</li> </ol>
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### (4) LEARNING & TEACHING METHODS - EVALUATION

<b>TEACHING METHOD</b> <i>Face to face, Distance learning, etc.</i>	Face to face	
<b>USE OF INFORMATION &amp; COMMUNICATIONS TECHNOLOGY (ICT)</b> <i>Use of ICT in Teaching, in Laboratory Education, in Communication with students</i>	Use of ICT in teaching, in laboratory education, and in communication with students: <ul style="list-style-type: none"> <li>• Organization of course material in ppt slides</li> <li>• Support of the learning process via the e-class electronic platform</li> <li>• Communication via email</li> </ul>	
<b>TEACHING ORGANIZATION</b> <i>The ways and methods of teaching are described in detail.</i> <i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research &amp; analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.</i>  <i>The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.</i>	<b>Activity</b>	<b>Workload/semester</b>
	Lectures	39
	Bibliographic research & analysis	23
	Interactive learning	13
	<b>Total</b>	<b>75</b>
<b>STUDENT EVALUATION</b> <i>Description of the evaluation process</i>  <i>Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Presentation in audience, Laboratory Report,</i>	Written examination (mid-term and final examination) Evaluation of assignments in the context of interactive teaching	

*Clinical examination of a patient, Artistic interpretation, Other/Others*

*Please indicate all relevant information about the course assessment and how students are informed*

## **(5) SUGGESTED BIBLIOGRAPHY**

- Viticulture, Eudoxus Book Code: 86200884, Edition: 1st/2019, Author: Manolis N. Stavrakakis, ISBN: 9786185252151, Type: Textbook, Publisher: ΕΜΒΡΥΟ ΕΜΠΟΡΙΚΗ ΕΚΔΟΤΙΚΗ ΔΙΑΧΕΙΡΙΣΤΙΚΗ ΜΟΝΟΠΡΟΣΩΠΗ ΙΚΕ
- Viticulture, Eudoxus Book Code: 94645186, Edition: 3rd/2020, Author: N.A. Nikolaou, ISBN: 9789603571360, Type: Textbook, Publisher: Christina and Vasiliki Kordali O.E.
- Viticulture, Eudoxus Book Code: 68370605, Edition: 1st/2016, Author: Kostas I. Kousoulas, ISBN: 9786185049393, Type: Textbook, Publisher: Psychalos Philippos & Co. Publishing O.E.
- Various scientific papers or review articles, which may be of general interest or cover recent developments in Biochemistry (and more broadly in the biological sciences) that, as is the case everywhere, take time to be incorporated into textbooks and may change every year, are uploaded on the e-class platform.
- Relevant scientific journals:
  - Journal of Wine Research
  - American Journal of Enology and Viticulture
  - Fermentation
  - Beverages
  - AIMS Microbiology
  - AIMS Agriculture and Food
  - Foods
  - Food Research International
  - LWT – Food Science and Technology
  - Journal of Functional Foods
  - Scientia Horticulturae
  - Food Chemistry