OENOLOGY

1. GENERAL

II GENERAL					
SCHOOL	AGRICULTURAL SCIENCES				
DEPARTMENT	CROP SCIENCE				
LEVEL OF COURSE	UNDERGRADUATE				
COURSE CODE	CRS_1006	SEMESTER	R OF STUDIES	10 th	
COURSE TITLE	Oenology				
if credits are awarded for separate of e.g. lectures, laboratory exercises, et awarded for the whole of the course hours and the total credits	mponents of the course, . If the credits are				
		Lectures	3		
Tutorial			1		
Total			4	5	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).					
COURSE TYPE general background, special background, specialised general knowledge, skills development	Specialised general knowledge, skills development				
PREREQUISITE COURSES:	Typically, there are not prerequisite courses.				
TEACHING AND ASSESSMENT	Greek. teaching may be however performed in English in case foreign students				
LANGUAGE:	attend the course.				
THE COURSE IS OFFERED TO	Yes				
ERASMUS STUDENTS					
COURSE WEBPAGE (URL)			·	·	

2. LEARNING OUTCOMES

Learning outcomes

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.

Consult Appendix A

- 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

This course aims to train students on quality characteristics and properties of main grape varieties for wine production. To deal with the chemical composition of grapes: Sugars. Organic acids. Phenolic compounds. Volatile compounds. Alcoholic degree. Nutritional value. To organize programs offering certified viticultural products and to direct groups of producers.

General Abilities

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 and information, with the use of the necessary technology Adapting to new situations

Project planning and management Respect for difference and multiculturalism Respect for the natural environment

Decision-making

 $Showing\ social,\ professional\ and\ ethical\ responsibility\ and\ sensitivity\ to\ gender$

Working independently

issues

Team work

Criticism and self-criticism

Working in an international environment

Production of free, creative and inductive thinking

Working in an interdisciplinary environment

Production of new research ideas

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations Decision-making Working independently Production of free, creative and inductive thinking Respect for the natural environment

3. SYLLABUS

- 1. Quality characteristics and properties of wine, table and raisin varieties
- 2. Wine production: legislation, global wine geographical distribution.
- 3. Varieties characteristics and cultivation practices of table grapes.
- 4. Grape harvest, postharvest technology
- 5. Production and quality of raisin
- Oenological Treatments and Practices: grape harvest, crushing, stem removing, draining and pressing. 6.
- 7. Vinification, pasteurization, filtration and wine bottling. Wine preservation technology
- 8. Winemaking yeast species.
- 9. Alcoholic fermentation
- 10. Common winemaking problems
- 11. Wine tasting.
- 12. Vinegar production.
- 13. Alcoholic beverages and Spirits

4. TEACHING AND LEARNING METHODS - EVALUATION TEACHING METHOD Lectures in the class and in the laboratory (face to face) Face-to-face, Distance learning, etc. **USE OF INFORMATION AND** Use of Information and Communication Technologies (ICTs) (e.g. **COMMUNICATION TECHNOLOGIES** PowerPoint) in teaching. Direct communication with the students Use of ICT in teaching, laboratory education, (face to face and by e-mail), Support of the learning process and communication with students uploading of the educational material to the electronic platform (eclass): https://eclass.upatras.gr **TEACHING METHODS** Activity Semester workload The manner and methods of teaching are Lectures (3 conduct hours per week x 39 described in detail. 13 weeks) Lectures, seminars, laboratory practice, Tutorial (1 conduct hours per week x 12 fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art 12 weeks) workshop, interactive teaching, educational Mid term examinations 4 visits, project, essay writing, artistic creativity, Hours for private study of the student 69 and preparation for mid-term or/and The student's study hours for each learning final examination / Final examination

activity are given as well as the hours of nondirected study according to the principles of the **ECTS**

STUDENT PERFORMANCE **EVALUATION**

Description of the evaluation procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, openended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Two mid-term examinations with the final examination grade to be the mean mark. It is mandatory to obtain pass grade (≥5) in each examination.

125 hours (total student

work-load)

2. Written examination after the end of the semester. Minimum passing grade: 5.

Evaluation of theoretical part (60%)

Written examination. It is mandatory to obtain pass grade (\geq 5).

Evaluation of the mid term exams (40%)

Total number of hours for the Course

(25 hours of work-load per ECTS

credit)

Written examination. It is mandatory to obtain pass grade (\geq 5).

Specifically-defined	evaluation	criteria	are
given, and if and wi	here they are	accessibl	le to
students.			

5. ATTACHED BIBLIOGRAPHY

Suggested bibliography:

- 1. Α. Κουτίνας, Μ. Κανελλάκη. 2007. «Χημεία Τροφίμων», Εκδόσεις Τζιόλα.
- 2. Τσακίρης, 2006. Ελληνική Οινογνωσία, Εκδ. Ψύχαλος, Αθήνα.
- 3. P. Ribéreau-Gayon, D. Dubourdieu, B. Donèche, A. Lonvaud 2006. Handbook of Enology, Vol. 1: The Microbiology of Wine and Vinifications, Wiley, 2nd edition.

Related academic journals:

Australian Journal of Grape and Wine research Vitis Journal of the Science of Food and Agricu American Journal of Enology and Viticulture Australian Journal of Grape and Wine Research