

Course Unit	Practices in the Vineyard		Field of study	Agricultural and Animal Production	
Bachelor in	Oenology		School	School of Agriculture	
Academic Year	2023/2024	Year of study	2	Level	1-2
Type	Semestral	Semester	2	ECTS credits	6.0
Code	9998-705-2204-00-23				
Workload (hours)	162	Contact hours	T	-	TP
			PL	-	TC
			S	-	E
			OT	4	O

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) António Castro Ribeiro

### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Know the vegetative and reproductive cycle of the vine through observation and systematic recording of the phenological states of different varieties.
2. Plan and execute the vineyard's cultural operations during its annual cycle.
3. Carry out the following cultural practices: winter pruning, grafting, summer pruning and canopy management, soil management, fertilization, phytosanitary treatments.
4. Use the skills obtained in the curricular units of mechanization and equipment, general viticulture, viticulture and viticultural ecology and vine phytosanitary protection and apply them in practice.
5. Prepare a technical report on the best practices to be implemented in the vineyard, with a critical assessment and suggestions.

### Prerequisites

Before the course unit the learner is expected to be able to:  
Knowledge of viticulture and mechanization

### Course contents

Performing the following practices in the vineyard: Site preparation and planting of the vineyard; Monitoring and recording of the grapevine phenological stages; Pruning; Soil management; Pest and disease control; Green pruning and canopy management; Fertilization; Evaluation of soil and vine water status and irrigation management and irrigation system maintenance. Other practices related to climate change. Methodologies for preparing a technical report.

### Course contents (extended version)

1. Performing the following cultural practices in the vineyard:
  - Site preparation and planting of the vineyard: perform tasks in the context of installing a vineyard
  - Monitoring and recording of the grapevine phenological stages of several varieties.
  - Vine multiplication and propagation, grafting: perform activities related to grafting.
  - Pruning in different systems.
  - Soil management: herbicide application, cover crops, soil tillage.
  - Green pruning and canopy management
  - Vine fertilization management: soil and leaf sampling; fertilizer application to soil and foliar.
  - Evaluation of soil and vine water status, irrigation management and irrigation system maintenance.
  - Other practices related to climate change: application of foliar protectors
2. Methodologies for preparing a technical report.

### Recommended reading

1. Hidalgo, L. 2003. Poda de la vid. Ediciones Mundi-Prensa, Madrid.
2. Magalhães, N. 2015. Tratado de Viticultura. A Videira, A Vinha e o Terroir, Esférica Poética, Lisboa.
3. Martínez de Toda, F. 2011. Claves de la Viticultura de Calidad. Ediciones Mundi-Prensa, Madrid.
4. Martínez de Toda, F. 2019. Técnicas Técnicas vitícolas frente al cambio climático. Ediciones Mundi-Prensa, Madrid.
5. Trujillo, P. B. 2017. Guía de campo de Viticultura. Editorial Agrícola, Madrid.

### Teaching and learning methods

Field work: throughout the semester students perform activities, in the ESA vineyard and commercial vineyards, under supervision and teaching and how to carry out cultural practices. Tutorial aid is provided along the semester.

### Assessment methods

1. Alternative 1 - (Regular, Student Worker) (Final)
  - Reports and Guides - 60% (Technical report on the practices carried out and observations recorded in the vineyards.)
  - Work Discussion - 40% (Final evaluation component)
2. Alternative 2 - (Regular, Student Worker) (Final, Supplementary, Special)
  - Final Written Exam - 100%

### Language of instruction

Portuguese, with additional English support for foreign students.

### Electronic validation

António Castro Ribeiro	João Luís Verdial Andrade	António Castro Ribeiro	José Carlos Batista Couto Barbosa
17-01-2024	22-01-2024	27-01-2024	28-01-2024