

Course Unit	Course Unit Sensory Analysis			Field of study	Food Industries		
Bachelor in	Oenology			School	School of Agriculture		
Academic Year	2022/2023	Year of study	2	Level	1-2	ECTS credits	3.0
Туре	Semestral	Semester	2	Code	9998-705-2201-00-22		
Workload (hours)	81	Contact hours		30 PL - To nd problem-solving; PL - Problem-	C - S - solving, project or laboratory; TC -	E - OT Fieldwork; S - Seminar; E - Place	2 O -

Name(s) of lecturer(s)

Marieta Amélia Martins Carvalho, Sandra Sofia Quinteiro Rodrigues

## Learning outcomes and competences

- At the end of the course unit the learner is expected to be able to: 1. Understand the importance of sensory evaluation of wine. Advantages and disadvantages of sensory analysis. 2. To know and advantages and disadvantages of sensory analysis. Physiology of the senses: vision, smell and taste. 3. To know and to identify the basic flavors, the thresholds of perception and the compounds of the wine associated to those flavors. 4. Select and train a panel test. Learn how to apply the methods of sensory analysis of wine. Relate to sensory and instrumental analysis with the statistical methods and train a panel test. Learn how to apply the methods of sensory analysis of wine. Relate to sensory and instrumental analysis with the statistical
- methodology. 5. Relationship of the sensory analysis, with components of the organoleptic quality appearanc, odor, In-mouth Sensations. Apply the methods learned

## Prerequisites

Before the course unit the learner is expected to be able to:

Knowledge of statistical methods.

## Course contents

1-Introduction to sensoryanalysis 2 - Basics of sSensory analysis 3 - Objectives of the sensory analysis 4 - The most common attributes: - Appearance: clarity, color, viscosity, spritz, tears. - Odor: orthonasal (in-glass) odor - In-mouth Sensations: Taste and mMouth-feel, odor-retronasal 5 - Rooms for samples preparation and panel training 6 - Types of tests 7 - Factors influencing the performance 8 - Samples presentation 9 - The report, in sensory analysis

## Course contents (extended version)

- 1. Introduction to sensorial analysis
- 2. Quality definition:
- safety, functional, organoleptic, nutritional, cultural and ecologic properties
   Importance of sensory control, SC. Acceptability by the consumer. Advantages and disadvantages of SA
   Bases of sensory analysis

   Defining the problem
   Subjectivity. Physiological and psychological factors
   Physiological basis

  - Physiological basis
  - Basic tastes: sweet, salty, bitter, sour

  - the taster
    Area for the tests and sample preparation

- Area for the tests and sample preparation
  The room. Environmental aspects
  Objectives of the sensory analysis
  Objective characterization and acceptability. New Products
  anel Types: consumer, industrial, analytical, chamber of judges
  Selection and training of assessors. Management Panel. Training of a panel. Behavior of judges
  Presentation of the samples. The panel manager
  Sensory analysis in the industry. Sensory analysis on consumption
  The most common attributes. Scales
  Appearance: daity, color viscosity, spritz and tears
- Appearance: clarity, color, viscosity, spritz and tears.
   Odor: Orthonasal (in-glass) odor
   In-mouth Sensations: Taste and Mouth-feel, odor-retronasal
   Final assessment

#### Types of sensory tests - "Affective" tests 8.

- discriminative tests
- Descriptive tests

## Recommended reading

1. Félix Depledt (coordonnateur), 2009. Evaluation sensorielle manuel méthodologique. Collection : Sciences & techniques agroalimentaires. Éditeur : Tec et Doc, Paris

- , Peynaud, E. ; Blouin, J. 2005. O gosto do vinho. Litexa Editora Jackson, R. S. 2009. Wine tasting-AProfessional Handbook. 2nd Edition. Academic Press. London Normas ISO 8586, ISO 3591, ISO 8589, ISO 3972, ISO 4121, ISO 6658, ISO 549, ISO 13300-1, ISO 13300-2, ISO 11300
- 5. NP EN ISO/IEC 17025: 2018 Acreditation for Sensory Testing Laboratories

## Teaching and learning methods

Lectures will be supported by media and multimedia resources. Practical classes will engage work in lab. Seminars will allow teacher and students to explore a particular topic related to food quality. Non present hours will involve training in a working environment. Graduate students are expected to work largely on their own initiative although with the close support and supervision of a tutor.

## Assessment methods

- Continuous assessment: (Regular, Student Worker) (Final)

   Practical Work 50% (Practical Work (50%; 1, 5 ECTS). The note must be >9, 5 points.)
   Final Written Exam 50% (A test theoretical and practical (50%; 1, 5 ECTS). The note must be > 9, 5 points.)

   Evaluation of student workers: (Student Worker) (Final, Supplementary, Special)

   Final Written Exam 100% (Global written exam: theoretically and practical (100%; 3, 0 ECTS).)

   Resource evaluation: (Regular, Student Worker) (Supplementary)

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- (	Assessment methods	
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- Final Written Exam 100% (Global written exam: theoretically and practical (100%; 3, 0 ECTS).)
  Special (Regular, Student Worker) (Special)
  Final Written Exam 100% (Global written exam: theoretically and practical (100%; 3, 0 ECTS).)

# Language of instruction

Portuguese, with additional English support for foreign students.

E	Electronic validation			
Marieta Amélia Martins Carvalho, Fernand Sandra Sofia Quinteiro Rodrigues		Fernando Jorge Ruivo Sousa	António Castro Ribeiro	Ramiro Corujeira Valentim
	14-12-2022	14-12-2022	19-12-2022	21-12-2022