

Course Unit	Physics			Field of study	Physics		
Bachelor in	Oenology			School	School of Agriculture		
Academic Year	2023/2024	Year of study	1	Level	1-1	ECTS credits	6.0
Туре	Semestral	Semester	2	Code	9998-705-1201-00-23		
Workload (hours)	162	Contact hours	T 30 TP	30 PL - T	rc - s -	E · OT	4 0 -
			T - Lectures; TP - Lectures a	and problem-solving; PL - Problem-	-solving, project or laboratory; TC	- Fieldwork; S - Seminar; E - Place	ement; OT - Tutorial; O - Other
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Name(s) of lecturer(s) Amilcar Manuel Lopes António

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to: Basic knowledge of Physics.

Prerequisites

Not applicable

Course contents

Units. Unit Conversion. Vectors.

Mechanics

Fluid Mechanics

Thermodynamics

Course contents (extended version)

- Units. Unit Conversion. Vectors.
 Mechanics:
 Static
- Kinematics

2nd Law

- Ninematics
 Dynamics
 3. Fluid Mechanics:
 Hydrostatic
 Hydrodynamics
 4. Thermodynamics:
 Zero Law
 1st Law

Recommended reading

- 1. A. L. Antonio, http://www.esa.ipb.pt/grupofis 2. Fundamentals of Physics 10th Edition by David Halliday, Robert Resnick & Jearl Walker. Wiley, 2007

Teaching and learning methods

Theoretical-Practical Classes

Assessment methods

- Final Exam - (Regular, Student Worker) (Final, Supplementary, Special)

Language of instruction

- Portuguese
 Portuguese, with additional English support for foreign students.

Electronic validation	Electronic	validation
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30-01-2024	30-01-2024	30-01-2024	01-02-2024	