

Course Unit	Physics			Field of study	Physics Sciences		
Bachelor in	Agronomic Engineering			School	School of Agriculture		
Academic Year	2023/2024	Year of study	1	Level	1-1	ECTS credits	6.0
Туре	Semestral	Semester	2	Code	9086-813-1202-00-23		
Workload (hours)	162	Contact hours		- PL - T		E - OT - Fieldwork; S - Seminar; E - Place	- O - oment; OT - Tutorial; O - Other
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. 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.

El	ectr	onic	vali	da	tion

Amilcar Manuel Lopes António	Tomás de Aquino Freitas Rosa Figueiredo	Albino António Bento	Maria Sameiro Ferreira Patrício
26-01-2024	26-01-2024	26-01-2024	26-01-2024