

Course Unit	Physics		Field of study	Physics Sciences	
Bachelor in	Zootechnical Engineering		School	School of Agriculture	
Academic Year	2023/2024	Year of study	1	Level	1-1
Type	Semestral	Semester	2	ECTS credits	6.0
		Code		9129-815-1202-00-23	
Workload (hours)	162	Contact hours	T -	TP -	PL -
			TC -	S -	E -
			OT -	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) Amílcar 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)

1. Units. Unit Conversion. Vectors.
2. Mechanics:
 - Static
 - Kinematics
 - Dynamics
3. Fluid Mechanics:
 - Hydrostatic
 - Hydrodynamics
4. Thermodynamics:
 - Zero Law
 - 1st Law
 - 2nd Law

Recommended reading

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

1. Portuguese
2. Portuguese, with additional English support for foreign students.

Electronic validation

Amílcar Manuel Lopes António	Tomás de Aquino Freitas Rosa Figueiredo	Marieta Amélia Martins Carvalho	Maria Sameiro Ferreira Patrício
26-01-2024	26-01-2024	26-01-2024	29-01-2024