

Course Unit	Physics	Field of study	Physics Sciences
Bachelor in	Agronomic Engineering	School	School of Agriculture
Academic Year	2023/2024	Year of study	1
Type	Semestral	Semester	2
Level	1-1	ECTS credits	6.0
Code	9086-813-1202-00-23		
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

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

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

Electronic validation

Amílcar 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