

Bachelor in Informatics and Communications School School of Public Management, Communication and Tourism  Academic Year 2020/2021 Year of study 1 Level 1-1 ECTS credits 6.0	Course Unit Computer Sys			Network and Computer Systems	
	Bachelor in Informatics ar			School of Public Management, Communication and Tourism	
2000 000 4400 000 000	Academic Year 2020/2021	Year of study 1	Level 1-1	ECTS credits 6.0	
Type Semestral Semester 2 Code 9188-320-1102-00-20	Type Semestral	Semester 2	Code 9188-320	9188-320-1102-00-20	
Workload (hours)  162 Contact hours  T 15 TP - PL 45 TC - S - E - OT 20 O - T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Ott					

Name(s) of lecturer(s) Cosmin Constantinescu

## Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

- . Identify and describe the various hardware components of a common computer system . Install and configure hardware to a common computer system.
- 3. Identify the importance of configuration, maintenance and optimization of a basic operating system in a user's perspective.

  4. Install, configure and optimize the operation of operating systems (Windows, Linux) on a user's perspective.

  5. Demonstrate the ability to work in various operating systems.

## Prerequisites

Before the course unit the learner is expected to be able to: Without prerequisites.

## Course contents

Computer hardware, assembling a PC, BIOS setup, diagnosis of errors and software.

## Course contents (extended version)

- Computer
   The Microprocessor
   Bus and Ports
- 3. Bus and P 4. Memories
- Storage Units
- Computer Assembling and Maintenance
   BIOS Setup
   Fror Diagnosis and Resolution
   Monitor

- Monitors
   Display Adapters
- 11. Software

## Recommended reading

- Magalhães, J., Gouveia, A., (2019). Hardware tecnologias e soluções. FCA. ISBN: 9789727228928.
   Branco, A., (2015). Manual de Instalação e Reparação de Computadores. 3ª Edição. FCA. ISBN: 9789727228089.
   Delgado, J., Ribeiro, C. (2014). Arquitectura de computadores. (5ª ed.). Lisboa: FCA. ISBN: 978-972-722-789-1
   Hennessy, J. L., Patterson, D. A., (2011) Computer Architecture: A Quantitative Approach. Morgan Kaufmann. Fifth Edition. ISBN: 978-0123838728
   Harris, D., Harris, D., (2012) Digital Design and Computer Architecture, Second Edition. (2 edition), Morgan Kaufmann. ISBN: 0123944244

# Teaching and learning methods

For each topic of the program will be an introduction to the theory that using the expository method using a video projector. Will also apply the method interrogative, questioning systematically pupils themselves to develop the capacity of reasoning.

## Assessment methods

- Continuous evaluation (Regular, Student Worker) (Final, Supplementary, Special)
   Final Written Exam 50% (Minimum grade: 8. 0 values.)
   Practical Work 50% (Minimum grade: 8. 0 values.)
   Final Exam (Regular, Student Worker) (Final, Supplementary, Special)
   Final Written Exam 100%

## Language of instruction

Portuguese, with additional English support for foreign students.

## Electronic validation

Electronic validation					
	Cosmin Constantinescu	Carlos Filipe Campos Rompante da Cunha	Carlos Filipe Campos Rompante da Cunha	Luisa Margarida Barata Lopes	
	03-11-2020	13-11-2020	13-11-2020	13-11-2020	