

Course Unit	Education and Multimedia Communication I		Field of study	Educational Sciences	
Bachelor in	Environmental Education		School	School of Education	
Academic Year	2021/2022	Year of study	1	Level	1-1
Type	Semestral	Semester	2	ECTS credits	4.0
		Code	9082-620-1201-00-21		
Workload (hours)	108	Contact hours	T	-	TP
			36	PL	-
			TC	-	S
			E	-	OT
			9	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) João Sérgio Pina Carvalho Sousa

#### Learning outcomes and competences

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

1. Understand the importance of ICT in the context of the information society.
2. Understand the educational benefits of Web 2.0 and open source software.
3. Utilize advanced features of word processing.
4. Conceive multimedia presentations for different contexts.
5. Properly use the worksheet.
6. Create databases for certain situations.

#### Prerequisites

Before the course unit the learner is expected to be able to:  
None.

#### Course contents

ICT and the Information Society and Knowledge. Educational benefits of Web 2.0 and open source software. Text Processing. Creating Presentations. Spreadsheet. Database.

#### Course contents (extended version)

1. ICT and the Information Society and Knowledge.
  - ICT in the current social context.
  - Professional ICT applications.
  - Social applications of ICT.
2. The Web 2.0 and open source software.
  - The evolution of the Web.
  - Cloud computing and education.
  - The open source movement and educational advantages.
3. Text Processing.
  - Editing and formatting of documents.
  - Objects and tables.
  - Bibliographical references and index.
  - Document review.
  - Open source software for word processing.
4. Creating Presentations.
  - Format slides.
  - Work with drawing objects, images and graphics related.
  - Multimedia and animation.
  - Set up and run a presentation.
  - Open source software for presentations.
5. Spreadsheet.
  - Operations basics for editing and formatting.
  - Formulas and functions.
  - Tables and graphs.
  - Configuring and print.
  - Software open source spreadsheet.
6. Online collaboration.
  - Cooperation and collaboration.
  - Online collaboration tools.
  - The collective intelligence.
  - Online collaboration in the context of environmental education.

#### Recommended reading

1. Martos, A. (2013): Como buscar en Internet. Madrid: Anaya Multimedia
2. Microsoft (s/d): Guia do produto 2017. Disponível em <https://www.microsoft.com/pt-br/download/details.aspx?id=5829>
3. Santos, T. (2018): Fundamentos Da Computação Em Nuvem. São Paulo: CNAC
4. Duarte, N. (2018): Apresentações persuasivas. São Paulo: Actual Editora
5. Sureda, J. e Calvo, A. (2002): La red Internet e la educación Ambiental. Barcelona: DI7 GRUP D EDICIO

#### Teaching and learning methods

Presentation and explanation of content. Individual and group activities, on the practical application of content and context, experimentation, exploration and resolution of problems. Discussion and reflection on new technologies in today's society. Communication and interaction through the e-learning platform as well as tools of communication synchronous and asynchronous.

#### Assessment methods

1. Continuous Assessment - (Regular, Student Worker) (Final)
  - Practical Work - 50% (Realization of a group work)
  - Final Written Exam - 50% (Final evaluation)
2. Exam - (Regular, Student Worker) (Supplementary, Special)

**Assessment methods**

- Final Written Exam - 100% (Exam)

**Language of instruction**

Portuguese, with additional English support for foreign students.

**Electronic validation**

João Sérgio Pina Carvalho Sousa	Manuel Florindo Alves Meirinhos	Paulo Miguel Mafra Gonçalves	Carlos Manuel Costa Teixeira
20-10-2021	20-10-2021	29-10-2021	05-12-2021