

Course Unit	Option 1 - ICT for Education		Field of study	-	
Master in	Teaching of Musical Education in the Basic School		School	School of Education	
Academic Year	2023/2024	Year of study	1	Level	2-1
Type	Semestral	Semester	1	ECTS credits	4.0
Code	5051-764-1102-03-23				
Workload (hours)	108	Contact hours	T -	TP 28	PL -
			TC -	S -	E -
			OT 8	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) Manuel Florindo Alves Meirinhos

Learning outcomes and competences

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

1. Understands the need to innovate through the curricular integration of ICT.
2. Develop and integrate the curriculum multimedia educational activities and other educational software.
3. Integrate in professional practice, emerging digital technologies.

Prerequisites

Not applicable

Course contents

The curriculum and ways of using ICT. Development and exploration of multimedia educational activities. Pedagogical exploration of emerging digital technologies.

Course contents (extended version)

1. The curriculum and ways of using ICT.
 - Use versus integration of ICT.
 - Computer tools to support teaching work.
 - Digital tools to support learning.
 - Levels of integration of digital resources and associated skills.
 - Procedures for pedagogical innovation.
 - Teachers digital skills
 - The school's digital transition
2. Development and exploration of educational multimedia activities for music education.
 - Edutainment, fun and hard gamification strategies.
 - Design of interactive multimedia activities
 - Computer applications for musical writing.
 - Online learning resources (Song Maker).
 - Creating activities on online platforms
3. Pedagogical exploration of emerging digital technologies, in the context of musical education.
 - Mobile learning (tablets, smartphones) and APPs for music education.
 - QR codes and augmented reality in music education.
 - Cloud Computing and Collaboration.
 - The Flipped classroom model.
 - Computational thinking in the context of music education

Recommended reading

1. Carneiro, R. , Toscano, J. & Diaz, T. (coord.) (2010). Los desafios de las TIC para el cambio educativo. Madrid: OEI-Fundación Santillana.
2. Cabero, J. & Barroso, J. (2013). Nuevos cenário digitais. Madrid: Pirâmide.
3. Fadel, L. , Ulbrich, V. , Batista, C. & Vanzin, T. (2014). Gamificação. São Paulo: Pimenta Cultural.
4. Lata, M. , & Khatri, H. (2016). Educational Technology: Pedagogy and ICT Integration Across the Curriculum. Delhi: Shipra publications.
5. Otero, L. (2011). Aplicación de las TIC en el aula de educación musical de la educación primaria. Barcelona: GRAO.

Teaching and learning methods

The aim is to establish an immediate relationship between the theoretical knowledge and its application in practice. Immediate contact with equipment and programs is intended, so that learners develop appropriate materials for their students and implement them in concrete situations. This application must be accompanied by the teacher and followed by joint reflection by the trainee group.

Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final)
 - Intermediate Written Test - 50% (Individual practical work)
 - Practical Work - 50% (Practical group work.)
2. Exam Evaluation - (Regular, Student Worker) (Supplementary, Special)
 - Final Written Exam - 100% (Exam)

Language of instruction

Portuguese

Electronic validation

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28-11-2023	28-11-2023	28-12-2023	11-02-2024