

Course Unit	New Technologies in Music		Field of study	Music	
Bachelor in	Music in Community Contexts		School	School of Education	
Academic Year	2022/2023	Year of study	1	Level	1-1
Type	Semestral	Semester	1	ECTS credits	6.0
Workload (hours)		162	Contact hours	T - TP 54 PL - TC - S - E - OT 18 O -	
Code 9175-659-1103-00-22					

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) Vasco Paulo Cecilio Alves

Learning outcomes and competences

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

1. Prepare scores electronically;
2. Making audio and MIDI processing on computer;
3. Develop musical projects on computer media.

Prerequisites

Before the course unit the learner is expected to be able to:
Basic knowledge of computers and musical theory.

Course contents

- Elaboration of scores in a music notation editing software;
- Editing and sequence of audio and MIDI events in a computer program called DAW (Digital Audio Workstation).

Course contents (extended version)

1. Approach to the music notation software
 - Insertion of musical notes, musical symbols, indications of technical and expressive; Formatting.
2. Approach to the musical computer program called DAW (Digital Audio Workstation).
 - Manipulation and MIDI AUDIO: Configuration; recording; sequencing, editing, and mastering EQ.

Recommended reading

1. Garrigus, S. R. (2006). Sonar 6 Power! : The Comprehensive Guide. Thomson Course Technology.
2. Huber, D. M. (2007) The MIDI Manual, Third Edition: A Practical Guide to MIDI in the Project Studio. Focal Press.
3. Kuzer, D. & Leonhard, G. (2005). The Future of Music: Manifesto for the Digital Music Revolution. Berklee Press.
4. Millward, S. (2002). Sound Synthesis with VST Instrument. PC Publishing.
5. Rudolph, T. & Leonard, V. (2007). Sibelius: A Comprehensive Guide to Sibelius Music Notation Software. Hal Leonard.

Teaching and learning methods

- Publishing of music;
- Recordings and processing of audio and MIDI;
- Preparation of work and projects;
- Research on the Internet.

Assessment methods

1. Continuous assessment - (Regular, Student Worker) (Final)
 - Practical Work - 100% (Consists in presenting two works and a project.)
2. Final exam - (Regular, Student Worker) (Supplementary, Special)
 - Practical Work - 100% (Consists in presenting two works and a project.)

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

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06-01-2023	18-01-2023	19-01-2023	20-01-2023