

Course Unit	New Technologies in Music	Field of study	Music
Bachelor in	Music	School	School of Education
Academic Year	2017/2018	Year of study	1
Type	Annual	Semester	-
Level	1-1	ECTS credits	8.0
Code	9214-360-1005-00-17		
Workload (hours)	216	Contact hours	T - TP 45 PL - TC - S - E - OT 45 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) 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

- Preparation of the music software Sibelius; • Editing and sequence of events in audio and MIDI software Sonar; • Handling of synthesizers and virtual effects processors.

Course contents (extended version)

1. Approach to software Sibelius Music
 - Insertion of musical notes, musical symbols, indications of technical and expressive; Formatting.
2. Approach to software-Cakewalk Sonar Music
 - 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

Vasco Paulo Cecilio Alves	Vasco Paulo Cecilio Alves	Sandra Cristina da Costa Santos	António Francisco Ribeiro Alves
16-10-2017	16-10-2017	18-10-2017	18-10-2017