



Information about the subject

Degree: Bachelor of Arts Degree in Primary School Education

Faculty: Faculty of Teacher Training and Education Sciences

Code: 1162045 **Name:** Information and communication technologies applied to music education

Credits: 6,00 **ECTS Year:** 4 **Semester:** 2

Module: Qualifying Mention in Music Education

Subject Matter: ICTs in Music Education **Type:** Elective

Field of knowledge: Social and legal sciences

Department: -

Type of learning: Classroom-based learning / Online

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

Qualifying Mention in Music Education

Subject Matter	ECTS	Subject	ECTS	Year/semester
Didactics of Musical Education	6,00	Teaching of music education	6,00	3, 4/1
Sound spaces of diversity and interculturality	6,00	Sound spaces for diversity and interculturality	6,00	3, 4/2
ICTs in Music Education	6,00	Information and communication technologies applied to music education	6,00	4/2
Rhythm and movement	6,00	Rhythm and movement	6,00	4/2
Development of musical creation and improvisation	6,00	Development of musical creation and improvisation	6,00	4/2



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Develop creative and multidisciplinary activities, coordinating and/or collaborating in small and large groups
- R2 Individually or collectively select information related to the musical phenomenon within different formal and non-formal contexts, to build one's own didactic material
- R3 Actively participate through a work group for the development of practical musical activities
- R4 Develop musical practice in the classroom (score editing, instrumental accompaniments, music recording and editing) based on the mastery of necessary basic computer resources
- R5 Integrate appropriate resources for musical practice in the classroom in different digital and written media, with the aim of producing knowledge through a critical attitude towards them



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

GENERAL		Weighting			
		1	2	3	4
CG2	Design, plan, and evaluate teaching and learning processes, both individually and in collaboration with other teachers and professionals from the school.			X	
CG11	Know and apply information and communication technologies in the classrooms. Selectively discern audiovisual information that contributes to learning, civic education, and cultural enrichment.				X

SPECIFIC		Weighting			
		1	2	3	4
EM3	Acquire resources to encourage participation in activities, valuing musical experiences in a positive way within the framework of an active and participative didactic, inside and outside the school.			X	
EM11	Acquire the necessary computer resources for the development of musical practice in the classroom, both for editing scores, instrumental accompaniment and recording and editing music.				X
EM12	Learning to search for, select and integrate appropriate resources for musical practice in the classroom in different media, digital and written, with the aim of producing knowledge through a critical attitude towards them.				X



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	5,00%	Solution of practical cases: Execution tests, real and/or simulated tasks.
	20,00%	Oral presentation of group and individual works: Self-assessment systems (oral, written, individual, in groups). Oral tests (individual, in groups, presentation of topics or works).
	5,00%	Monitoring of student work in non-face-to-face/distance sessions: Observation techniques, rubrics, checklists. Portfolios.
	15,00%	Active participation in theoretical-practical sessions, seminars, and tutorials: Attitude scale (to gather opinions, values, social and managerial skills, interaction behaviors).
	35,00%	Projects. Development and/or design works.
	20,00%	Reports/Practice reports.

Observations

The above evaluation systems will be integrated within the following evaluation blocks:

- Individual and/or group work (written work, practical work done in the classroom by the student etc.), with a value of 80% of the grade.
- Monitoring of attendance and participation, with a value of 20% of the grade.

Additional information:

The evaluation includes several well differentiated instruments. The final grade will be the weighted average of the results obtained in each of them, provided that all of them have been passed with a minimum grade of 5. All assignments will have enough time for their completion, and will have a delivery date to obtain an optimized grade, as well as a deadline (beyond which, the student will lose the option to be evaluated in that call).



CRITERIA FOR THE AWARDING OF HONOURS:

As a sign of academic exceptionality, the Honour's Degree will be awarded to the student who, in addition to obtaining a maximum mark in the above criteria, is considered by the teacher to be worthy of such a distinction. And, in accordance with the general regulations which indicate that only one matriculation of honour can be awarded for every 20 students, not per fraction of 20, with the exception of the case of groups of less than 20 students in total, in which one matriculation can be awarded.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Participatory Master Class
- M3 Project-based Learning
- M5 Seminar Work
- M6 Problem-based Learning
- M7 Cooperative/Collaborative Work
- M9 Group and Individual Tutoring
- M10 Individual Tutoring



IN-CLASS LEARNING

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Group Work Presentation M3, M6, M7, M9	R1, R4, R5	15,00	0,60
Theoretical Class M1	R4, R5	5,00	0,20
Practical Class M3, M5, M6, M7, M9, M10	R3, R4, R5	20,00	0,80
Tutoring M5, M9, M10	R4, R5	10,00	0,40
Evaluation M6, M7	R1, R2, R3, R4, R5	10,00	0,40
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Group work M3, M5, M6, M7, M9	R1, R2, R3, R4, R5	40,00	1,60
Individual work M3, M5, M6, M7, M10	R2, R4, R5	50,00	2,00
TOTAL		90,00	3,60

ON-LINE LEARNING

SYNCHRONOUS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Individual tutoring (e-learning mode)		60,00	2,40
TOTAL		60,00	2,40



ASYNCHRONOUS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Individual work		90,00	3,60
TOTAL		90,00	3,60

Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
BLOCK 1	Learning and use of basic computer programmes and applications for the development of general teaching practice.
BLOCK 2	Computer applications and programmes applicable to the music education classroom: <ul style="list-style-type: none">·score editing,·instrumental accompaniment,·audiovisual creation, recording and editing,·collaborative work using a digital music environment.
BLOCK 3	Application in the primary music classroom of technological resources and innovation through active teaching methodologies: <ul style="list-style-type: none">·flipped classroom,·expert groups,·Aronson's puzzle technique,·gamification and gymkhanas.



Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK 1	7,50	15,00
BLOCK 2	15,00	30,00
BLOCK 3	7,50	15,00



References

- Calvillo, A.J., y Martín, D. (coords.) (2017). *The Flipped Learning: Guía "gamificada" para novatos y no tan novatos*. UNIR Editorial.
- Díaz, M., y Giráldez, A. (coords.). (2007). *Aportaciones teóricas y Metodológicas a la Educación Musical*. Ed. Graó.
- Fidalgo-Blanco, Á., Sein-Echaluce, M. L., y García-Peñalvo, F. J. (2020). *Ventajas reales en la aplicación del método de Aula Invertida-Flipped Classroom*. Grupo GRIAL.
<http://doi.org/10.5281/zenodo.3520014>
- Giráldez, A. (2005). *Internet y educación musical*. Ed. Graó.
- Giráldez, A. (coord.). (2015). *De los ordenadores a los dispositivos móviles. Propuestas de creación musical y audiovisual*. Ed. Graó.
- Montoya, J. C. (2010). *Música y medios audiovisuales. Planteamientos didácticos en el marco de la Educación Musical*. Colección Vítor, ediciones Universidad de Salamanca.
- Navarro, A. (2020). *El uso de las nuevas tecnologías en el área de música*. Editorial Procompal.
- Richmond, F. (2014). *Learning Music with Garage Band on the iPad: The Essential Classroom Guide to Music production, Performance and Education with iOS Devices*. Alfred Music ed.
- Sales, C. (2009). *El método didáctico a través de las TIC: un estudio de casos en las aulas*. Ed. Nau Llibres.
- Segovia, J.P. (2014). Las TIC en música. En Peña, R. (coord.). *Nuevas tecnologías en el aula: 20 proyectos para aplicar en clase* (pp. 361-374). Ediciones de la U, Publicaciones Altaria.

RECOMMENDED WEB LINKS

- http://educamusica.es/informatica_musical.html
- <http://informatica.bilbaomusika.net/introduccion-a-la-informatica-musical>
- <http://recursostic.educacion.es/artes/rem/web/index.php/es/dossier-educativo/item/226-fundamentos-de-las-tic-en-educaci%C3%B3n-musical-planteamientos-iniciales>
- <http://soundcool.org/es/>
- http://www.academia.edu/3074766/Las_TIC_aplicadas_a_la_educaci%C3%B3n_musical._Contenidos_educativos_abiertos._Aplicaciones_de_la_Web_2.0_para_la_ense%C3%B1anza_musical_WeBlog_wiki_sindicaci%C3%B3n_y_agregaci%C3%B3n_podcast...
- <http://www.aprendomusica.com>
- <http://www.auladelpedagogo.com/2011/02/tecnologias-de-la-informacion-y-la-comunicacion-en-la-musica/>
- <http://www.filomusica.com/filo52/tic.html>
- http://www.ite.educacion.es/formacion/materiales/88/cd/curso_mos/modulo_1/bloque_1_3.htm
- <http://www.jamstudio.com/Studio/index.htm>
- <https://app.genial.ly/>
- https://intef.es/observatorio_tecno/wallame-jugar-al-escondite-en-realidad-aumentada/



<https://moises.ai/es/>

<https://musescore.com/>

<https://www.audacityteam.org/>

<https://www.noteflight.com/>

<https://www.soundtrap.com/>

<https://www.theflippedclassroom.es/>

MOS - Área de Música del Ministerio de Educación <http://www.recursos.cnice.mec.es/musica/>

Red social docente, respaldada por INTEF Instituto Nacional de Tecnologías Educativas y de formación del profesorado, <http://internetaula.ning.com/>

Revista electrónica complutense de investigación en educación musical

<http://www.ucm.es/info/reciem/>

Revista Eufonía: Didáctica de la Música

<http://www.eufonia.grao.com/revistas/presentación.asp?ID=7>

Web sobre uso de TIC en las aulas, respaldada por INTEF Instituto Nacional de Tecnologías Educativas y de formación del profesorado, <http://www.educacontic.es/>



Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☐ Kaltura



Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒

Microsoft Teams

☐

Kaltura

Explanation about the practical sessions:

The on-line group sessions will have the same duration as the face-to-face sessions, within the scheduled class time, to explain the theoretical basis, explain the tasks to be carried out, clarify doubts, and carry out the practices that allow this means of work. As a complement, within the class schedule, the work groups will be cited for the tasks that require it to supervise the development of the practices to be carried out. Individualized tutorials will be placed at any other time to be agreed upon between the student and the teacher.



2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

- ☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.
- ☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System:

The same percentages given in the teaching guide will be followed for practical tests, written work, student work and follow-up. Only some works and tests, with the same contents, will be adapted to the new on-line scenario or qualified by means of audiovisual recordings.



ONLINE WORK

Regarding the Assessment Tools:

☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System:

Not applicable