

**1. General information****Course:** SOUND TECHNOLOGIES**Type:** CORE COURSE**Degree:** 401 - UNDERGRADUATE DEGREE PROGRAMME IN AUDIOVISUAL COMMUNICATION**Center:** 12 - FACULTY OF COMMUNICATION**Year:** 1**Main language:** Spanish**Use of additional languages:****Web site:** <https://campusvirtual.uclm.es>**Code:** 16509**ECTS credits:** 6**Academic year:** 2021-22**Group(s):** 30**Duration:** C2**Second language:****English Friendly:** Y**Bilingual:** N**Lecturer:** ISABEL GONZALEZ RODRIGUEZ - Group(s): 30

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2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

Not established

4. Degree competences achieved in this course**Course competences**

Code	Description
CB05	Develop the learning skills necessary to undertake further studies with a high degree of autonomy.
CE15	Recreate the lighting and sound atmosphere of an audiovisual production.
CE16	Carry out the processes of recording, composition, editing and post-production of audiovisual products.
CE18	Select and use technological tools for the creation of multimedia digital material, animations, virtual sets and interactive contents
CE20	Select and use specific techniques and equipment for capturing and processing audio and video signals.
CG03	Use the basic tools of information and communication technologies necessary for the exercise of professions linked to audiovisual communication.
CG04	Expose the results of academic work in writing, orally or by other means, in accordance with the canons of the communication disciplines.
CG06	Know the state of the world and its recent historical evolution as well as acquiring the concepts necessary for understanding its political, economic, technological and sociocultural dimensions in such a way that they serve as an instrument in the resolution of professional problems and challenges.
CG07	Acquire the ability to work in a team, face collective challenges and cooperatively solve problems, respecting the diversity of the participants and of their contributions.
CT01	Learn a second foreign language.

5. Objectives or Learning Outcomes**Course learning outcomes****Description**

Know the equipment and techniques for recording and editing audiovisual events.

Keep abreast of the technological situation regarding the broadcasting and distribution of audiovisual content.

Know the theoretical basics and professional practices in relation to audiovisual language and the construction and analysis of audiovisual narratives.

Know and apply the phases of the business plan to the audiovisual communication system through the development of a project.

Correctly handle the linguistic and discursive resources of the Spanish language.

Join and adapt to a professional audiovisual team.

Use computer techniques for the manipulation of the audiovisual signal.

Adapt to constant technological change.

6. Units / Contents**Unit 1: Sound and listen****Unit 1.1** Generation and propagation**Unit 1.2** Audition**Unit 1.3** Voice**Unit 1.4** Practice 1**Unit 2: Audio signal****Unit 2.1** The audio chain**Unit 2.2** Audio digitalization

- Unit 2.3** DAW
- Unit 2.4** Practice 2
- Unit 3: Microphones**
 - Unit 3.1** Microphones
 - Unit 3.2** Selection
 - Unit 3.3** Recording techniques
 - Unit 3.4** Practice 3
- Unit 4: Audio equipment**
 - Unit 4.1** Audio equipment
 - Unit 4.2** Audio processing
 - Unit 4.3** Audio mixers
 - Unit 4.4** Loudspeakers
 - Unit 4.5** Practice 4
 - Unit 4.6** Practice 5
- Unit 5: Studios and their facilities**
 - Unit 5.1** Room acoustics
 - Unit 5.2** Facilities in studios
 - Unit 5.3** Practice 6
- Unit 6: Audio in audiovisual**
 - Unit 6.1** sound language
 - Unit 6.2** sound in audiovisual
 - Unit 6.3** sound recording
 - Unit 6.4** practice 7

7. Activities, Units/Modules and Methodology							
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CB05 CE15 CE16 CE18 CE20 CG06 CT01	0.88	22	N	-	
Class Attendance (practical) [ON-SITE]	Practical or hands-on activities	CB05 CE15 CE16 CE18 CE20 CG03 CG04 CG07 CT01	1.04	26	N	-	
Practicum and practical activities report writing or preparation [OFF-SITE]	Guided or supervised work	CB05 CE15 CE16 CE18 CE20 CG03 CG04 CG07 CT01	2.4	60	Y	Y	
Project or Topic Presentations [ON-SITE]	Assessment tests	CE18 CG03 CG04	0.16	4	Y	N	
Progress test [ON-SITE]	Assessment tests	CB05 CE15 CE16 CE18 CE20 CG03 CG04	0.08	2	Y	N	
Final test [ON-SITE]	Assessment tests	CB05 CE15 CE16 CE18 CE20 CG03	0.08	2	Y	Y	
Group tutoring sessions [ON-SITE]	Group tutoring sessions		0.16	4	N	-	
Study and Exam Preparation [OFF-SITE]	Self-study	CB05 CE15 CE16 CE18 CE20 CT01	1.2	30	N	-	
Total:			6	150			
Total credits of in-class work: 2.4			Total class time hours: 60				
Total credits of out of class work: 3.6			Total hours of out of class work: 90				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System			
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Practicum and practical activities reports assessment	30.00%	30.00%	
Final test	40.00%	40.00%	
Oral presentations assessment	30.00%	0.00%	
Test	0.00%	30.00%	
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Practicum and practical activities report writing or preparation [AUTÓNOMA][Guided or supervised work]	60
Project or Topic Presentations [PRESENCIAL][Assessment tests]	4
Progress test [PRESENCIAL][Assessment tests]	2

Final test [PRESENCIAL][Assessment tests]	2
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	4
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Unit 1 (de 6): Sound and listen	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Unit 2 (de 6): Audio signal	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Unit 3 (de 6): Microphones	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	4
Unit 4 (de 6): Audio equipment	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	10
Unit 5 (de 6): Studios and their facilities	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	3
Unit 6 (de 6): Audio in audiovisual	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	5
Global activity	
Activities	hours
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	26
Project or Topic Presentations [PRESENCIAL][Assessment tests]	4
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	4
Final test [PRESENCIAL][Assessment tests]	2
Progress test [PRESENCIAL][Assessment tests]	2
Class Attendance (theory) [PRESENCIAL][Lectures]	22
Practicum and practical activities report writing or preparation [AUTÓNOMA][Guided or supervised work]	60
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Whitaker, Jerry C., editor	Master handbook of audio production : a guide to standards, equipment, and system design	McGraw-Hill		0-07-140876-2	2003	
Cuenca David, Ingnasi	Tecnología del sonido	Thomson Paraninfo		84-283-2920-6	2005	
Bruce Bartlett, Jenny Bartlett.	Practical recording techniques : the step-by-step approach to professional audio recording	Routledge		978-1-138-90442-2	2017	
Katz, Bob	La masterización de audio : el arte y la ciencia	Escuela de Cine y Vídeo		84-933445-5-9	2004	