

ACADEMIC TRAINING IN SPANISH UNIVERSITIES FOR THE DIDACTIC
USE OF CINEMA IN PRE-SCHOOL AND PRIMARY EDUCATIONAlejandro Lorenzo-Lledó , Asunción Lledó , Gonzalo Lorenzo , Elena Pérez-Vázquez 

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Abstract

One of the characteristic features of current society is the relevance of technology and audiovisual media. This fact has generated demands in the educational field to adapt objectives and methodologies to non-textual languages. Among the predominant audiovisual media is the cinema, which has many potentialities as a didactic resource. Therefore, the aim of this study was to find out the training that students of the Teacher's Degree in Spanish universities receive for the didactic use of cinema through a nationwide research with survey design in which 4659 students, belonging to all the Autonomous Communities and 58 universities, participated. The questionnaire called Perceptions about the potentialities of cinema as a didactic resource in pre-school and primary classrooms (PECID) was designed ad hoc. This questionnaire, which consists of 45 items, has a section that deals with the training received for the educational use of cinema. The Spanish universities offering the Teacher Degree were identified and contacted for the dissemination of the questionnaire. The results obtained showed that 88.4% had not received training. Furthermore, 250 subjects were identified in which film content is taught, mostly in the second and third year and in the area of Didactics and School Organization. It was also found that the most frequent activities carried out are the viewing of films with individual answers to questions and the film forum. This pioneering study in Spain aims to provide information as a basis for further academic training in cinema as a resource of high educational value.

Keywords – Cinema, Audiovisual media, Didactic resource, Academic training, Teacher's degree, University education.

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1. Introduction

The university, as an institution of university education, must aspire to excellence, be in touch with society and drive change and innovation. In this sense, it must base its identity on training reflective people, since, as Freire (1975: page 18) indicated "education does not change the world, it changes the people who are going to change the world". De la Herrán and Álvarez (2010) add that the university must first lead and then cooperate in the work of intellectual enquiry, generating self-criticism and deep reflection. All of this must necessarily be in line with the response to new social demands.

The change of paradigm in university education has been driven by competence-based learning, which aims to meet the requirements of current society, offering, as indicated by Arráez Jensen and Pascual (2013), a global education in which university students can interrelate the knowledge they acquire with their future entry into the labour market. In this context, university teaching staff must take on new methodological challenges in order to satisfy an education not only as a sum of professional skills, but also as an integral training of people. Likewise, it should be borne in mind that a higher education of excellence is linked to a university accessible to all, which must guarantee the presence, participation and academic achievements of all students in equal opportunities (Lorenzo-Lledó, Lorenzo, Lledó & Pérez-Vázquez, 2020).

In addition to the new educational demands that have emerged, the irruption of technologies and audiovisual media in the design of new training frameworks. In this sense, from the almost exclusive predominance of one type of code and literacy, such as reading and writing, there has been a gradual move towards other forms of representation and expression, in line with today's society in which, as Cabero and Córdoba (2009) note, there is a galaxy of technologies and a great diversity of languages and symbolic systems that generate the need to master different types of code. Among the existing audiovisual resources, there is the cinema, which, as Amar (2009) emphasises, is a synthesis of all the arts, and which, due to its pedagogical value, treasures numerous educational possibilities (Ambròs & Breu, 2011).

In accordance with the normative framework of the area in which this paper is developed, that is to say, initial teacher training in Spain, Order ECI/3854/2007, of 27 December and Order ECI/3857/2007, of 27 December, were enacted to regulate the verification of official university degrees that qualify for the exercise of the profession of Pre-school and Primary Education Teacher. The former establishes a series of competencies that teachers in pre-school education must have within a globalized educational model, in which cinema can be integrated, and specifically prescribes "mastering the use of different techniques of expression", such as filmmaking and "knowing the educational implications of information and communication technologies", even if only television is expressly mentioned. On the other hand, for the Primary Education Teacher, it is established to know how to "promote democratic education for active citizenship", which is in line with one of the objectives of including cinema in the classroom in its critical dimension. In addition, it is established to "know and apply in the classrooms the information and communication technologies", expressly mentioning to know how to "selectively discern the audiovisual information that contributes to learning, civic training and cultural richness".

For its part, the Spanish educational laws related to the professional field of the Teacher's Degree, as is the case of the Organic Law 8/2013 for the Improvement of Educational Quality (2013), which repeals part of the previous Organic Law 2/2006 on Education (2006), establishes as objectives "to use different artistic representations and expressions and to begin to build visual and audiovisual proposals" or to promote "the knowledge of different artistic languages". Furthermore, the studies by Ramírez, Renés and García-Ruiz, (2014), Ramírez, Renés and Aguaded, (2016), Ramírez, Renés and González, (2018), and Lara, Ruiz and Tarín (2019) have analysed the presence of the media and cinema in the Spanish curricular frameworks of the compulsory education stages. The last three authors have found that cinema is present in the regional curricula of Pre-school and Primary Education, although in an unequal way. In this sense, in Primary Education, the cinema as a resource of educational support is included in all the communities, but only in the Community of Madrid and in Andalusia is it also present at the same time as a critical analysis of the audiovisual, as a form of own production of films and as a form of art.

Based on the above, it is worth asking how the Spanish university is meeting these training requirements in the training of future teachers. Some research has analysed the curricula of some universities and how they are tackling the development of digital competence (Gewerc & Montero, 2015; Ortega, 2015; Cabero, 2017; Muñoz & Cubo, 2019; Fuentes, López & Pozo, 2019) and the media competence (López & Aguaded, 2015; Gozávez, Masanet, Hernando & Bernal-Bravo, 2019), but not the teaching competence to apply cinema in education, nor from a national scope, identifying a relevant research gap. Therefore, the general objective of this study is to know the training received by students of the Teacher Degree in Spanish universities for the educational use of cinema. The following specific objectives are based on this general objective:

1. To analyse whether students in the Teacher's Degree are receiving training in the educational use of film, considering the national scope, the Autonomous Community, the type of Teacher's Degree and the ownership of the university.
2. To identify the subjects where specific content is taught for the educational use of film, based on the university, the Autonomous Community, the ownership of the university, the type of Teacher's Degree and its characterization in the curriculum.
3. To know the activities that the teachers of the Teacher's Degree conduct using film as a teaching resource and the frequency of application.
4. To detect whether students in the Teacher's Degree consider necessary further specific training to use film as a teaching resource in the classroom.

2. Method

The research conducted is descriptive and survey-based. The survey design is widely used in the education field, especially when large samples are to be collected from various strata or territories. In this sense, Arnau (1996) indicates that survey designs are aimed at obtaining quantitative information about the characteristics of a given population, making it possible to describe them.

2.1. Participants

In the case of a national study, the participating sample was 4659 students from all the Autonomous Communities and 58 universities, 39 public and 19 private, following a quota sampling (Bisquerra, 2014). Of the mentioned sample, 15.5% (n=720) of the participants were men and 84.5% (n=3939) women and had an average age of 22.3 years (SD=3.9). On the other hand, 51.0% (n=2378) were from the Primary School Teacher's Degree and 49.0% (n=2281) were from the Pre-school Teacher's Degree. Furthermore, 89.8% (n=4183) of the participants were from public universities and 10.2% (n=476) from private universities. If we look at the territorial distribution, below, in figure 1, we present the frequencies and percentages of the participating students according to the Autonomous Community.

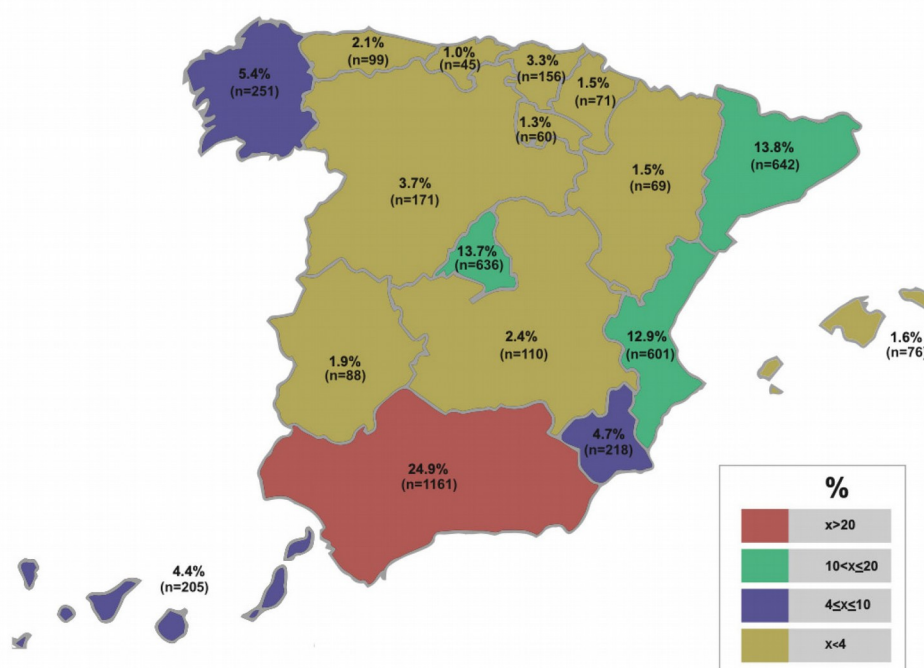


Figure 1. Percentages and frequencies of the sample according to the Autonomous Community (Lorenzo-Lledó, 2020)

As far as the universities are concerned, table 1 shows the participating students according to the university they belong to.

University	f	%
University of A Coruña	119	2.6
University of Alcalá	166	3.6
Alfonso X El Sabio University	3	0.1
University of Alicante	196	4.2
University of Almería	23	0.5
Nebrija University	19	0.4
Autonomous University of Barcelona	73	1.6
Autonomous University of Madrid	154	3.3
University of Barcelona	64	1.4
University of Burgos	24	0.5
University of Cádiz	155	3.3
Camilo José Cela University	24	0.5
University of Cantabria	41	0.9
CEU Cardenal Herrera University	35	0.8
University of Castilla-La Mancha	110	2.4
Catholic University San Antonio	33	0.7
Catholic University Santa Teresa de Jesús de Ávila	2	0.0
Valencia Catholic University San Vicente Mártir	9	0.2
Complutense University of Madrid	45	1.0
University of Córdoba	224	4.8
University of Deusto	13	0.3
European University of the Atlantic	4	0.1
University of Extremadura	88	1.9
Francisco de Vitoria University	13	0.3
University of Girona	158	3.4
University of Granada	116	2.5
University of Huelva	101	2.2
University of the Islas Baleares	76	1.6
International University of Cataluña	8	0.2
Jaume I University	223	4.8
University of Jaén	25	0.5
University of La Laguna	88	1.9
University of La Rioja	60	1.3
University of Las Palmas de Gran Canaria	117	2.5
University of León	27	0.6
University of Lleida	111	2.4
Loyola University Andalucía	30	0.6
Mondragón University	70	1.5
University of Murcia	185	4.0
University of Málaga	186	4.0
University of Navarra	23	0.5
University of Oviedo	99	2.1
University of País Vasco	73	1.6
Comillas Pontifical University	32	0.7
Pontifical University of Salamanca	33	0.7

University	f	%
Public University of Navarra	48	1.0
Ramon Llull University	96	2.1
Rey Juan Carlos University	180	3.9
Rovira i Virgili University	118	2.5
University of Salamanca	54	1.2
San Jorge University	15	0.3
University of Santiago de Compostela	35	0.8
University of Sevilla	301	6.5
University of Valladolid	31	0.7
University of Valencia	138	3.0
University of Vic	14	0.3
University of Vigo	97	2.1
University of Zaragoza	54	1.2
Total	4659	100.0

Table 1. Sample participants according to university (Lorenzo-Lledó, 2020)

The total sample is representative of the analysed population with a sampling error of 1.4% and a confidence level of 95.5%.

2.2. Instrument

The questionnaire Perceptions about the potentialities of cinema as a didactic resource in pre-school and primary classrooms (PECID) was used for data collection. It was designed ad hoc for the research and consists of 45 items, distributed in two parts. In this sense, the third section of the first part of the questionnaire, with 11 items, focuses on the training received for the use of cinema as a didactic resource (Lorenzo-Lledó, 2020). The results presented are those relating to the items on whether training has been received in the Teacher Degree, in which subject or subjects, how many hours of training and the frequency with which teachers have participated in activities in which cinema is the teaching resource. In addition, an item is included that focuses on the students' perception of the need to receive specific training to use film as a teaching resource in the classroom. These items were subjected to expert judgement, applying the Content Validity Coefficient (Hernández-Nieto, 2002). Thus, values higher than 0.80 were obtained, reflecting good content validity.

2.3. Procedure

In the first phase of the study, we proceeded to identify the Spanish universities, both public and private, in the different Autonomous Communities that offered the Teacher's Degree. In the second phase, teachers were contacted by email, informing them of the objectives of the research and requesting their collaboration in disseminating the questionnaire to their students. Finally, in the third phase, data collection was carried out. The students filled in the questionnaire during the academic year 2018/2019 through the Google Forms tool, informing themselves beforehand that it was a totally anonymous and voluntary activity.

2.4. Data Analysis

Once the data collection procedure had been planned and implemented, the data were analysed using version 21 of the SPSS statistical package for social sciences. Depending on the research design chosen, the descriptive statistics were analysed using frequencies, percentages and mean.

3. Results

The results of the study are presented below, grouped according to the quantified variables.

3.1. Training Received for the Didactic Use of Cinema

In relation to the results obtained on the existence of specific training in the Teacher's Degree for the use of cinema as a teaching resource, a very high percentage of students of the Teacher's Degree in Spanish universities (88.4%; n=4117) have not received specific training to use cinema in the classroom, stating only 11.6% (n=542) that they did receive training. To analyse the training received according to the Autonomous Community, Table 2 is presented.

From the results obtained, it can be seen that in the different Autonomous Communities there is a predominance of students who have not received training, with the exception of Cantabria, where 55.6% claim to have received specific training for the didactic use of cinema. However, it should be pointed out that there is no Autonomous Community where no training is provided to its students. In addition to Cantabria, communities such as Asturias, La Rioja and Navarre have a notable percentage of trained students, 33.3%, 31.7% and 23.9% respectively. With a percentage of students with training of less than 20.0%, mention should be made of Murcia (18.3%), Aragon (14.5%) and Andalusia (15.0%). The Communities with the lowest percentage of trained students are Catalonia and the Basque Country, with 4.8% and 3.8%.

Regarding the percentage of students who have received training according to the type of Teacher Degree, the percentages are very similar, with no more than 85.0% of the participating students having received training in the two degrees. Nevertheless, the percentage of pupils in the Primary Education Degree who have received training is slightly higher, 13.9% (n=35) compared to 9.3% (n=19) of pupils in the Pre-school Education Degree.

Training in the didactic use of cinema									
Autonomous community	Yes			No			Total		
	f	% AACC	% Spain	f	% AACC	% Spain	f	% AACC	% Spain
Andalusia	174	15.0	3.7	987	85.0	21.2	1161	100.0	24.9
Aragon	10	14.5	0.2	59	85.5	1.3	69	100.0	1.5
Asturias	33	33.3	0.7	66	66.7	1.3	99	100.0	2.1
Balearic Islands	5	6.6	0.1	71	93.4	1.5	76	100.0	1.6
Canary Islans	17	8.3	0.4	188	91.7	4.0	205	100.0	4.4
Cantabria	25	55.6	0.5	20	44.4	0.4	45	100.0	1.0
Castilla - La Mancha	7	6.4	0.2	103	93.6	2.2	110	100.0	2.4
Castile and Leon	13	7.6	0.3	158	92.4	3.4	171	100.0	3.7
Catalonia	31	4.8	0.7	611	95.2	13.1	642	100.0	13.8
Valencian Community	43	7.2	0.9	558	92.8	12.0	601	100.0	12.9
Extremadura	5	5.7	0.1	83	94.3	1.8	88	100.0	1.9
Galicia	24	9.6	0.5	227	90.4	4.9	251	100.0	5.4
Madrid	73	11.5	1.6	563	85.5	12.1	636	100.0	13.7
Murcia	40	18.3	0.9	178	81.7	3.8	218	100.0	4.7
Navarre	17	23.9	0.4	54	76.1	1.2	71	100.0	1.5
Basque Country	6	3.8	0.1	150	96.2	3.2	156	100.0	3.3
La Rioja	19	31.7	0.4	41	68.3	0.9	60	100.0	1.3
Total	542		11.6	4117		88.4	4659		100.0

Table 2. Percentages and frequencies of training received by Teacher Degree students according to the Autonomous Community

If one considers training according to the university, the results show that 88.5% (n=4137) of students from public universities have not received training in cinema and 87.0% (n=468) of students from private universities have not either.

3.2. Subjects with Specific Content for Didactic Use of Cinema

Table 3 shows the results obtained on the number of subjects in which the students participating in the Teacher's Degree have identified specific content on the didactic use of cinema, depending on the Autonomous Community where it is taught and the university.

Autonomous communities	Universities	Subjects		
		f	% AACC	% Spain
Andalusia	Almería	1	2.0	0.4
	Cádiz	5	10.0	2.0
	Córdoba	2	4.0	0.8
	Granada	6	12.0	2.4
	Huelva	3	6.0	1.2
	Jaén	5	10.0	2.0
	Loyola	5	10.0	2.0
	Málaga	13	26.0	5.2
	Sevilla	10	20.0	4.0
<i>Total Andalusia</i>		50	100.0	20.0
Aragon	San Jorge	3	75.0	1.2
	Zaragoza	1	25.0	0.4
<i>Total Aragon</i>		4	100.0	1.6
Asturias	Oviedo	9	100.0	3.6
<i>Total Asturias</i>		9	100.0	3.6
Balearic Islands	Islas Baleares	2	100.0	0.8
<i>Total Balearic Islands</i>		2	100.0	0.8
Canary Islands	La Laguna	1	20.0	0.4
	Las Palmas	4	80.0	1.6
<i>Total Canary Islands</i>		5	100.0	2.0
Cantabria	Cantabria	7	77.7	2.8
	European Atlantic	2	22.2	0.8
<i>Total Cantabria</i>		9	100.0	3.6
Castilla-La Mancha	Castilla-La Mancha	6	100.0	2.4
<i>Total Castilla-La Mancha</i>		6	100.0	2.4
Castile and Leon	Burgos	2	8.3	0.4
	Catholic S.T. de Jesús de Avila	0	0.0	0.0
	León	3	12.5	1.6
	Pontifical of Salamanca	1	6.6	0.4
	Salamanca	7	46.6	2.8
	Valladolid	2	13.3	0.8
<i>Total Castile and Leon</i>		15	100.0	6.0
Catalonia	Autonomous of Barcelona	2	8.3	0.8
	Barcelona	3	12.5	1.2
	Girona	4	16.6	1.6
	International of Cataluña	0	0.0	0.0
	Lleida	8	33.3	3.2
	Ramon Llull	1	4.1	0.4
	Rovira i Virgili	2	8.3	0.8
	Vic	4	16.6	1.6
<i>Total Catalonia</i>		24	100.0	9.6

Autonomous communities	Universities	Subjects		
		f	% AACC	% Spain
Valencian Community	Alicante	9	50.0	3.6
	Valencia Catholic San Vicente Mártir	0	0.0	0.0
	CEU Cardenal Herrera	3	16.6	1.2
	Jaume I	1	5.5	0.4
	Valencia	5	27.7	2.0
<i>Total Valencian Community</i>		18	100.0	7.2
Extremadura	Extremadura	6	100.0	2.4
<i>Total Extremadura</i>		6	100.0	2.4
Galicia	A Coruña	9	52.9	3.6
	Compostela	1	5.8	0.4
	Vigo	7	41.1	2.8
<i>Total Galicia</i>		17	100.0	6.8
Madrid	Alcalá	11	25.5	4.4
	Alfonso X El sabio	1	2.3	0.4
	Nebrija	2	4.6	0.8
	Autonomous of Madrid	2	4.6	0.8
	Camilo José Cela	3	6.9	1.2
	Complutense	2	4.6	0.8
	Francisco de Vitoria	0	0.0	0.0
	Comillas Pontifical	6	13.9	2.4
	Rey Juan Carlos	16	37.2	6.4
<i>Total Madrid</i>		43	100.0	17.2
Murcia	Catholic San Antonio	7	36.8	2.8
	Murcia	12	63.1	4.8
<i>Total Murcia</i>		19	100.0	7.6
Navarre	Navarra	5	71.4	2.0
	Public of Navarra	2	28.5	0.8
<i>Total Navarre</i>		7	100.0	2.8
Basque Country	Deusto	0	0.0	0.0
	Mondragón	0	0.0	0.0
	País Vasco	7	100.0	2.8
<i>Total Basque Country</i>		7	100.0	2.8
La Rioja	La Rioja	9	100.0	3.6
<i>Total La Rioja</i>		9	100.0	3.6
<i>Total Spain</i>		250		100.0

Table 3. Subjects with content on the didactic use of cinema according to the Autonomous Community and the university

There are 250 subjects throughout Spain where specific content on the didactic use of cinema is taught and all the Autonomous Communities have at least one university in whose Teacher's Degree some of these subjects exist. It should be noted that Andalusia and Madrid are the communities in which more subjects with such specific content are taught, 50 and 43 subjects respectively, covering 37.2% of the total number of subjects in Spain. Catalonia, Murcia and Valencian Community are also three Communities with a considerable number of subjects with 24, 19 and 18 subjects each. Nonetheless, the majority of the communities have fewer than 10 subjects, with the Balearic Islands being the community where fewer subjects are taught, specifically 2. The two universities with the most subjects are the Rey Juan Carlos University and the University of Málaga, 16 and 13 subjects, which in turn belong to the two communities

with the most subjects on the didactic use of cinema. As universities where more than 10 subjects are taught, it is also worth mentioning Murcia and Alcalá, with 13 and 11 respectively. The majority of universities, 27 of the 52 universities, have between 1 and 4 subjects with specific content. In this sense, it is worth mentioning that the University of Girona, the University of Las Palmas, the University of León and the University of Vic have 4 subjects, and with 3 or fewer subjects there are the University of Barcelona, the Autonomous University of Madrid and the University of Compostela, among others.

Figures 2 and 3 present the results regarding the percentage of subjects where specific content on the didactic use of cinema is taught according to the type of university and the Teacher's Degree.

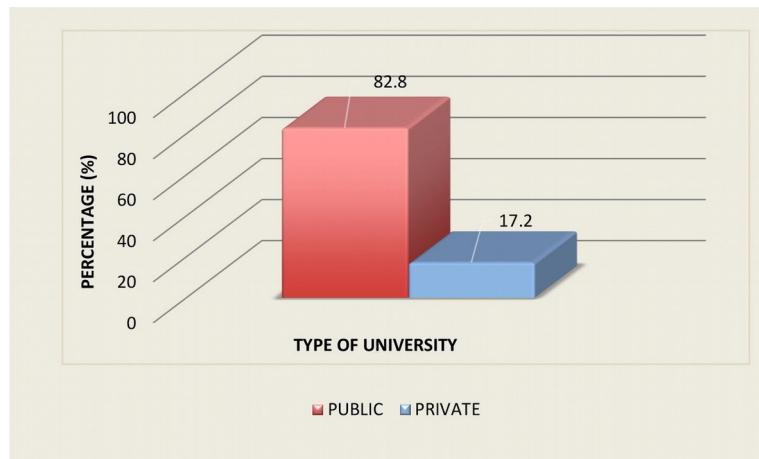


Figure 2. Percentage of subjects with content on the didactic use of cinema according to the type of university

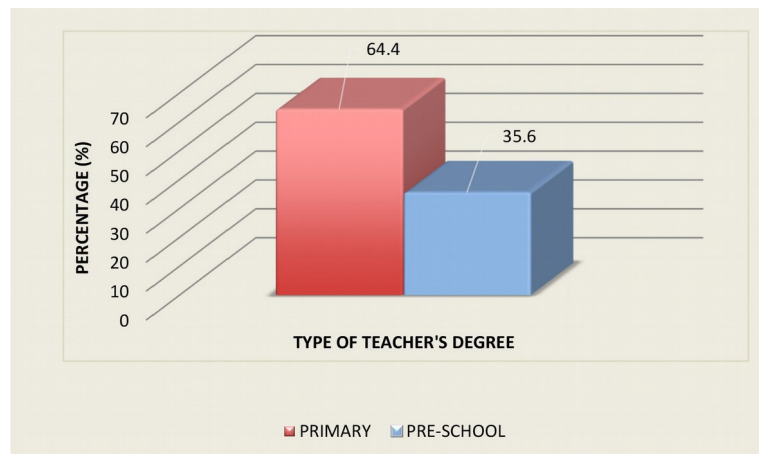


Figure 3. Percentage of subjects with content on the didactic use of cinema according to the Teacher's Degree

As can be seen, most of the subjects where content on the didactic use of cinema is taught come from public universities (82.8%; $n=207$). It is also noted that in the Primary Education Teacher's Degree a higher percentage of subjects of the mentioned profile are taught, 64.4% ($n=161$) of subjects.

As far as the course is concerned, subjects have been identified in all the courses, although it is in the first two years that there is a higher percentage of subjects, 32.0% in the second year ($n=80$) and 30.8% ($n=77$) in the first year, with the fourth year being the one with the fewest subjects (10.0%; $n=25$). Figure 4 shows the results obtained on the percentage of subjects that include contents on the didactic use of cinema according to its typology.

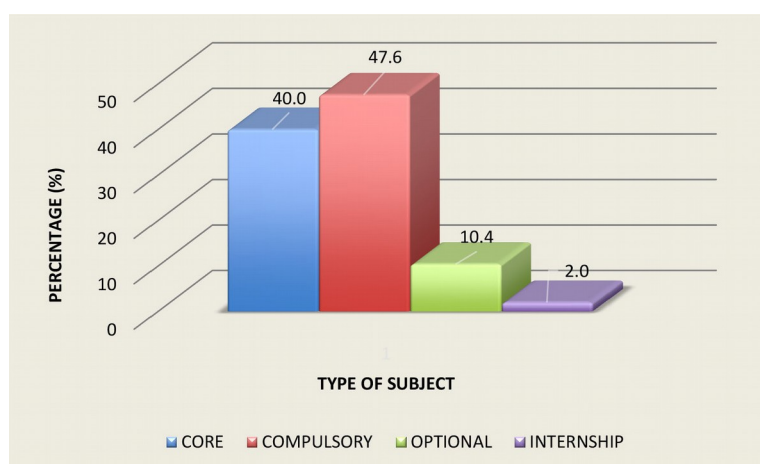


Figure 4. Percentage of subjects with content on the didactic use of cinema according to the type of subject

From the results presented, it can be seen that the highest percentage of subjects where specific cinema content is taught are compulsory (47.6%; $n=119$), although there is also a high percentage of core subjects (40.0%; $n=100$). In relation to the time placement of subjects with specific film content and their calculation in credits, only 8.0% ($n=20$) are annual and 46.8% ($n=117$) are from the second semester. Furthermore, 80.4% of the subjects ($n=201$) are six credits, 5.6% ($n=14$) are three credits and 4.4% ($n=11$) are nine credits. It should be added that the subjects of four, four and a half and twelve credits have respectively the same percentage (1.6%; $n=4$). The subjects of five, eight and fifteen credits also have respectively the same percentage (1.2%; $n=3$). Finally, the subjects of eighteen, twenty and twenty-four credits have respectively 0.4% ($n=1$).

As for the areas of knowledge in which the subjects identified by the students of the Teacher's Degree are framed, where they have received content for the didactic use of cinema, there is a notable diversity, specifically, 29 different areas. Most of the areas, 16 of them, have between 1 and 3 subjects. The two most outstanding areas, which bring together the highest percentage of subjects, are Didactics and School Organization and Language and Literature Teaching with 24.0% ($n=60$) and 13.6% ($n=34$) respectively. It is also worth mentioning as areas with a notable number of subjects, more than 18 subjects, the areas of Didactics of Social Sciences (10.0%; $n=25$), Didactics of Plastic Expression (9.2%; $n=23$) and Evolutionary and Educational Psychology (7.6%; $n=19$). With a percentage of subjects lower than 7.0%, the areas of Sociology (6.0%; $n=15$), Educational Theory (5.2%; $n=13$), Musical Expression Didactics (4.4%; $n=11$), Interdisciplinary (3.2%; $n=8$), English Philosophy (2.8%; $n=7$), Communication (2.0%; $n=5$), Music (1.6%; $n=4$), Didactics of Experimental Sciences (1.6%; $n=4$), Didactics of Body Language (1.2%; $n=3$), Didactics of Mathematics (1.2%; $n=3$), Education (0.8%; $n=2$) and Audiovisual Communication and Advertising (0.8%; $n=2$). With only one subject (0.4%) there are the areas of Contemporary History, Spanish Literature, Catalan Philosophy, Social Anthropology, Pedagogy, Didactics of History, Didactics of English Literature, Languages and Computer Systems, Social Psychology, Physical and Sports Education, Ancient History and Research Methods.

On the other hand, Table 4 presents the 26 subjects that have identified the most specific content on the educational use of cinema.

As can be seen, the subject with the most participating students (9.4%) who have received training in specific content on the didactic use of cinema is Media Education and the educational dimension of ICT at the University of Córdoba. This is a core subject and is taught in the Degree of Teacher in Pre-school Education. The second subject with the most students (4.4%) is Education for Citizenship and Human Rights, which is taught in the Primary School Teacher's Degree at the University of Málaga and is compulsory. Other subjects with an outstanding percentage of students, all of them in the Degree of Teacher in Primary Education, are Didactics of Reading and Writing (2.9%) from the University of Alicante, Audiovisual Communication and

Education (2.5%) from the University Rey Juan Carlos and Information and Communication Technology Applied to Education (2.2%) from the University of Oviedo. It is worth mentioning that Cantabria is the university with the most subjects among the 26 universities with the most students, with 4 subjects, and Andalusia is the Autonomous Community with the most subjects, with five subjects.

Subject	Univer.	Degree	Type*	Cred.	Knowledge area	Participating students	
						f	%
Communication and socio-cultural media: teaching and learning	Alcalá	Primary	COR.	6	Communication	6	0.9
Didactics of Social Sciences	Alcalá	Primary	COM.	6	Didactics of Social Sciences	5	0.7
Didactics of Reading and Writing	Alicante	Primary	COM.	6	Didactics of Language and Literature	20	2.9
Communication and Information Technology in Education	Cádiz	Primary	OPT.	6	Didactics and School Organization	9	1.3
Curriculum development in the social field	Cantabria	Primary	COM.	6	Educational and Developmental Psychology	11	1.6
Education of the gaze: Cinema and School	Cantabria	Primary	OPT.	6	Didactics of Social Sciences	5	0.7
Education of the gaze: Cinema and School	Cantabria	Pre-School	OPT.	6	Didactics of Social Sciences	5	0.7
Culture, environment and teaching of the social	Cantabria	Primary	COR.	6	Didactics of Social Sciences	12	1.8
Media, materials and new technologies applied to education	Catholic San Antonio	Primary	COR.	6	Education	5	0.7
Media education and the educational dimension of ICT	Córdoba	Pre-School	COR.	8	Didactics and school organization	64	9.4
Science and its Didactics in Pre-school Education	Granada	Pre-School	COM.	6	Didactics of Experimental Sciences	5	0.7
Didactics of Social Sciences: History	La Rioja	Primary	COM.	6	Didactics of Social Sciences	14	2.0
Literary and Aesthetic Education in Primary Education	Las Palmas	Primary	COM.	6	Didactics of Language and Literature	10	1.5
Digital technologies in primary education	Lleida	Primary	COR.	6	Didactics and School Organization	8	1.2
Visual arts	Lleida	Primary	COM.	6	Didactics of Musical Expression	7	1.0
Artistic Creation and Research Workshop	Murcia	Primary	COM.	6	Didactics and School Organization	6	0.9
Alternative and Augmentative Communication Systems	Murcia	Primary	OPT.	3	Didactics and School Organization	6	0.9
Media, materials and ICT for teaching	Murcia	Pre-School	COR.	6	Didactics and School Organization	10	1.5
Education for Citizenship and Human Rights	Málaga	Primary	COM.	6	Education Theory	30	4.4

Subject	Univer.	Degree	Type*	Cred.	Knowledge area	Participating students	
						f	%
General Didactics	Málaga	Primary	COR.	9	Didactics and School Organization	5	0.7
Plastic and audiovisual education I	Navarra	Primary	COM.	3	Didactics of Plastic Expression	10	1.5
Information and Communication Technology Applied to Education	Oviedo	Primary	COR.	6	Didactics and School Organization	15	2.2
Information and Communication Technology Applied to Education	Oviedo	Pre-School	COR.	6	Didactics and School Organization	12	1.8
Audiovisual Communication and Education	Rey Juan Carlos	Pre-School	COR.	6	Audiovisual Communication and Advertising	12	1.8
Audiovisual Communication and Education	Rey Juan Carlos	Primary	COR.	6	Audiovisual Communication and Advertising	17	2.5
Social science learning	Vigo	Pre-School	COM.	6	Didactics of Social Sciences	8	1.2

*COR.=Core; COM.=Compulsory; OPT.=Optional

Table 4. List of the 26 subjects with the highest percentage of participating students where content on the didactic use of cinema is taught

In terms of the number of hours they have received training on the use of cinema as a teaching resource, the majority of students (82.3%; n=446) have received between one and twenty hours of training.

3.3. Activities with the Cinema as a Didactic Resource

The following table 5 presents the results of the activities that the teachers of the Teacher's Degree implement with the cinema as a didactic resource according to its frequency of application.

Type of activities	Nothing frequent		Little frequent		Moderately frequent		Quite frequent		Very much frequent		M
	f	%	f	%	f	%	f	%	f	%	
Viewing film and individual responses	440	9.4	2058	44.2	1408	30.2	593	12.7	160	3.4	2.5
Making a short film	2379	51.1	1620	34.8	474	10.2	160	3.4	26	0.6	1.6
Cineforum	1130	24.3	1923	41.3	1031	22.1	458	9.8	117	2.5	2.2
Reading text from a film	2038	43.7	1619	34.7	688	14.8	259	5.6	55	1.2	1.8
Writing text from a film	1849	39.7	1639	35.2	765	16.4	322	6.9	84	1.8	1.9
Making a Storyboard	2868	61.6	1231	26.4	404	8.7	125	2.7	31	0.7	1.5
Making a Digital Storytelling	2890	62.0	1170	25.1	443	9.5	121	2.6	35	0.8	1.5
Editing of a trailer	3295	70.7	941	20.2	304	6.5	89	1.9	30	0.6	1.4
Representation of a film scene (role-playing)	2578	55.3	1249	26.8	538	11.5	230	4.9	64	1.4	1.7

Table 5. Percentages and frequency of activities in the Teacher's Degree with cinema as a didactic resource

The results obtained show that teachers in the Teacher Degrees rarely or never conduct activities in which cinema is the didactic resource, with combined response percentages in these two categories above 53.6% and mean below 3. Among the most applied activities, it should be noted that 30.2% of students have

moderately frequently watched a film in class and have responded individually to questions, and 22.1% have participated moderately frequently in Cineforum. Less common activities included the editing of a trailer, which was not at all frequent for 70.7%, and digital storytelling, which was not at all frequent for 62.0%.

3.4. Need for More Training in the Use of Cinema

In relation to the results on the need expressed by students in the Teacher's Degree for more specific training in the use of cinema as a teaching resource in the classroom, Figure 5 is presented.

As can be seen, 91.5% of students perceive that they need more training to apply cinema in the classroom, highlighting that 75.1% (n=3499) quite and totally agree with this need. On the contrary, only 2.6% (n=119) of the students totally disagree with the need for more training in the use of cinema in the classroom.

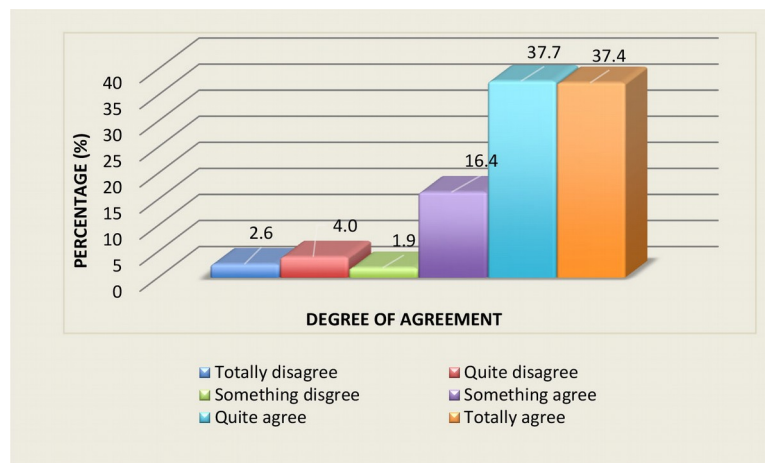


Figure 5. Percentages of responses given on the need for training in the didactic use of cinema

4. Discussion

Bearing in mind the objectives set out in the study, one of the findings obtained was the high percentage (88.4%) of students in the Teacher's Degree at national level who have not received specific training to use film as a teaching resource in Pre-school and Primary Education classrooms. This high number of students without specific training is in line with the results obtained by Masanet & Ferrés (2013) and Cabero & Guerra (2011), which, in the field of Media Education, revealed significant training deficiencies. Lorenzo-Lledó & Roig-Vila (2017) also detected, in the specific case of the University of Alicante, insufficient training in the use of cinema in the classroom. This fact is important for the future application of cinema in the classroom, since, as Lorenzo-Lledó, Lledó and Lorenzo (2020) have observed, students who have received specific training perceive the educational potential of cinema more intensely. On the other hand, it has been observed that teachers of the Teacher's Degree do not usually implement activities where they use cinema as a didactic resource. This means that students, in addition to not receiving specific training in the didactic use of film, do not usually participate in activities with cinema either. In this way, they are also prevented from learning to use cinema through vicarious learning, which is an effective strategy in the training of university students (Criollo, Romero & Fontaines Ruiz, 2017). It should be added that when teachers in the Teacher's Degree choose activities with cinema, they more frequently watch a film with individual answers to questions and the Cineforum. This means that they choose to implement the more traditional activities with cinema (Martín, 2014), to the detriment of more innovative, diverse and procedural activities, which require greater training of both teachers and students, such as, for example, the editing of a trailer, the making of a short film or a storyboard. Nevertheless, the educational shortcomings detected are partly made up for, as shown by Lorenzo-Lledó, Lledó, Pérez-Vázquez and

Lorenzo (2020), with a regular habit of watching films a week by students in the Teacher's Degree, which means a way to access the cinema and non-formal training.

If we consider the Autonomous Communities in order to identify which students in Spain have received more training, the study has shown that the communities with the most training are Cantabria and Asturias, so that, with the exception of these communities, more than 68.0% of the students in the different communities have not received any training. In this sense, the community with the highest percentage of untrained students is the Basque Country, which is in turn the community with the lowest frequency of film consumption per week among Teacher Training students in Spain (Lorenzo-Lledó, Lledó, Pérez-Vázquez et al., 2020). On the other hand, if we take the type of Teacher's Degree and the type of university of the student body, these variables do not turn out to be a differentiating factor, reflecting in both cases very high percentages of untrained students. Nevertheless, despite the similarities in the results, the percentage of untrained students in the Pre-school Education Teacher's Degree and in public universities is slightly higher.

Regarding the subjects of the Teacher's Degree where specific contents on the didactic use of cinema are taught, in accordance with the low training, in the study 250 subjects were found all over Spain. Masanet and Ferrés (2013) identified 214 subjects with Media Education content in university degrees in the field of education, although with a smaller sample. However, no Autonomous Community was found where no subjects with such content were taught. Thus, Andalusia and Madrid are the Communities with the most subjects, 50 and 43, which could be due to the fact that they are also the Communities with the most universities and the largest student population. However, Catalonia has only one university less than Madrid and the same as Andalusia and has a high percentage of student population and, despite this, has 24 subjects, which shows that Andalusia and Madrid have training indices that are among the highest and that they are two communities whose universities should be taken into account in their training plans as a reference.

Similarly, a greater number of subjects have been found in public universities than in private universities, where no subjects with such content are offered in 6 universities, although the difference in the number of universities of one type or another must be borne in mind. Furthermore, it has been found that students in the Primary Education Teacher Degree take more subjects with specific content on cinema, which is in line with the finding that they have slightly more training. It should be borne in mind that the cinema is a more present audiovisual medium in the contents and objectives of the Primary Education stage (Lara et al., 2019), and therefore it is coherent that it has a greater role in the initial training of primary school teachers. On the other hand, the scarce training that students receive in the Teacher Degree is mainly in the initial courses, since 62.5% of the subjects with such content are taught in the first and second years, a finding also in line with the fact that most of these subjects are core and compulsory.

The few specific contents received by students of the Teacher's Degree from Spanish universities on the didactic use of cinema are included within other subjects with broader contents, with the exception of one specific subject found at the University of Cantabria, called *Education of the Gaze: cinema and education*, of an optional type. However, more subjects have been found, which, although not specifically dedicated to cinema, are included in Media Education and audiovisual communication. Another important area where students also receive this training is in ICT subjects, with the risk that this entails, as Gutiérrez (2003) and Ferrés (2006) warned, that the technological or instrumental aspect is given greater priority than the critical-reflective one and that the cinematographic aspect is diluted in the generic and often confusing concept of ICT. Nevertheless, the area of knowledge from which a greater percentage of subjects (24.0%) come is Didactics and School Organization, reflected in a greater emphasis on the study of didactic methodologies to be applied with the cinema in the educational context.

5. Conclusions

Based on the proposed objectives and according to the findings, the following conclusions are indicated:

1. The training received in Spain in the Teacher's Degree for the didactic use of cinema is a minority, with a very high percentage of untrained students.
2. Specific content for the educational use of cinema is taught in 250 subjects throughout Spain. These are mostly core and compulsory, belonging mainly to the first two years, are more present in the Degree of Primary Education Teacher and come mainly from the areas of Didactics and School Organization and Didactics of Language and Literature.
3. It is rare or not at all frequent that teachers of the Teacher's Degree implement activities where they use the cinema as a didactic resource, as is the case with the viewing of a film with individual answers to questions and the Cineforum.
4. In view of the lack of training received, the students of the Teacher's Degree detected a lack in their initial teacher training, stating that they would need more specific training in the use of cinema as a didactic resource in the classroom.

As a limitation of the study, it is worth mentioning the fact that five Spanish private universities did not agree to collaborate in the research. This made it impossible to form a wider and more diverse sample with the participation of students from all Spanish universities.

The study presented is a pioneer in the analysis throughout Spain of the presence of training in the Teacher Degree students for the didactic use of cinema, and therefore opens a line of research for other studies, both national and international, that complement it from different approaches. On a practical level, the training deficiencies detected recommend deepening, with specific plans, the training for the effective application of this resource in favour of the improvement of the teaching-learning processes in Pre-school and Primary Education. This training should be extended to all the Autonomous Communities, although with even greater intensity in those where a greater number of untrained students have been identified. If the cinema is a resource with educational value that does not require a very expensive economic investment and is also a popular medium among future teachers, it can be said that the possibilities of implementing training for the didactic use of the cinema are greater. This training can be implemented through a specific subject or in a transversal way in several areas of knowledge. The essential thing is that the training covers the three educational dimensions detected in the cinema: as a didactic resource of the transmission of content, as a didactic resource of expression and communication, and as a didactic resource of critical analysis (Lorenzo-Lledó, 2020). In this sense, the training should address the educational use of cinema with the training to create learning activities through cinema, without forgetting its aspect as an audiovisual language and a means of artistic expression and as a means to enhance the critical and autonomous development of students. The incorporation of cinema in the initial teacher training must be precise, with links to the curricular design and previously defining the didactic objectives to be pursued. Films, as didactic resources, should be selected for their educational and cultural value and be worked on according to certain guidelines. In this way, the planning of a global pedagogical strategy with the active involvement of teachers and educational institutions is recommended for the optimal application of cinema.

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