#### **PEDAGOGY**

# Perception of Inclusion and Cooperative Learning of University Students Related to Physical Activity and Physical Education

Bingen Marcos-Rivero, Jon Ortuondo, David Hortigüela-Alcalá, Aitor Iturricastillo, Josune Rodríguez-Negro and Javier Yanci

#### **Abstract**

The objectives of the present study were, on the one hand, to analyse the internal consistency of four questionnaires referring to the perception and knowledge of inclusion and cooperative learning (CL), and on the other, to discover the perception and knowledge of inclusion and CL in Physical Education (PE) of university students studying courses related to PE, Physical activity (PA) or sport, as well as to analyse the differences by sex and level of studies (degree versus post-graduate studies). Two hundred and eighty university students participated in this study and answered four questionnaires. The results show that the total internal consistency of all the questionnaires was excellent ( $\alpha$  = 0.9). Furthermore, it was observed that the participants perceived inclusion and CL in a positive light, although they considered themselves to be not sufficiently trained. Significant differences were also observed according to sex and level of study. The women's group and the post-

Bingen Marcos-Rivero, Faculty of Education and Sport, University of the Basque Country; Jon Ortuondo, Faculty of Education, Department of Music Expression, Plastic Arts and Body Expression, Begoñako Andra Mari University College; David Hortigüela-Alcalá, Faculty of Education, Department of Specific Didactic, University of Burgos; Aitor Iturricastillo, Faculty of Education and Sport, University of the Basque Country; Josune Rodríguez-Negro, Faculty of Education and Sport, University of the Basque Country and Javier Yanci, Faculty of Education and Sport, University of the Basque Country. Please send author correspondence to jana.bingen.marcos@ehu.eus

graduate students were those who revealed the most knowledge and best perception of inclusion (p < 0.05). The results show that it is necessary to include more training in inclusive PA and PE in the study plans of future PE teachers.

#### Introduction

In Spain, as established by Organic Law 3/2020 (LOMLOE, 2020), the educational norm specifies that several university studies are available to work as a Physical Education (PE) teacher, both in Primary Education and Secondary Education. Specifically, in the case of Primary Education, to be able to work as a PE teacher, it is necessary to have passed the degree in Primary Education with a minor in PE (LOMLOE, 2020). In turn, to be able to work as a PE teacher in Secondary Education, it is necessary to have passed the degree in Physical Activity and Sports Sciences and the Master's in Teacher Training for Compulsory Secondary Education, the Sixth Form, Vocational Training and Language Teaching (LOMLOE, 2020). Moreover, there are other post-graduate studies with their own qualifications, university experts, official master's degrees, or doctoral studies related to PE, physical activity (AF), or sport (LOMLOE, 2020), that complement the university training of future PE teachers. A large proportion of the students who complete these studies will be the future professionals who will work as PE teachers, both in primary and secondary education. In this regard, it has been stated that it is very important for these students and future teachers to have adequate specific training in different subjects related to PE (Avramidis et al., 2000; Perlado et al., 2019).

Bearing in mind that in both primary and secondary schools there is a great deal of diversity among the students, and it has been indicated that inclusion presents physical, cognitive, emotional, affective and attitudinal benefits (Fernández et al., 2019), future professionals should be trained to face the challenges that may arise, and should acquire in their degree and post-graduate training competencies related, among others, to educational inclusion and diversity, which permit them to develop their future professional work adequately. However, in spite of the importance of acquiring knowledge and competencies related to educational inclusion and diversity, during their university training, several investigations which analysed the

study plans of the different universities, like for example, the Degree in Primary Education, concluded that in general, very few subjects were taught that were related to attention to diversity (Rodríguez et al., 2017; Valencia-Peris & Mínguez-Alfaro, 2018; Valencia-Peris et al., 2020). Although it has been stated that to have adequate knowledge, competencies, abilities and attitudes (Jiménez-Monteagudo & Hernández-Álvarez, 2013; Torres & Fernández, 2015) helps teachers to be better prepared for their professional work, a suitable strategy for achieving quality inclusive education and appropriate attention to diversity may be to train, at the university stage, teachers who are competent, reflective and committed to the values of inclusion (Echeita et al., 2008). Similarly, some studies affirm that the teachers who have specific training in inclusive PE obtain higher scores in self-efficacy regarding inclusion (Abellán et al., 2019; Grassi-Roig et al., 2022; Hutzler & Daniel-Shama, 2017; Reina et al., 2016), reinforcing the idea that it is necessary to go further in the improvement of university training in this subject.

It has also been found that the adequate use of cooperative learning (CL) helps to build inclusive education, so that all the students, with or without a disability, have the possibility to be educated through PE (Bermejo et al., 2022; Klavina et al., 2014; Páez et al., 2018; Qi & Ha, 2012; Simoni et al., 2013; Velázquez et al., 2014; Velázquez, 2018). In this regard, CL is defined as the "pedagogical model in which students work together in small, generally heterogeneous groups, to maximise their own learning and also that of the rest of their classmates" (Velázquez, 2015, p. 26). In this same vein, Fernández-Río (2014, p. 69) affirms that CL is understood as "a pedagogical model in which students learn with, from, and for other students, using a teaching-learning approach which facilitates and potentiates this interaction and positive interdependence in which the teacher and students act as co-learners". Although there may be difficulties to implement CL in PE classes, mainly due to lack of experience and abilities in the students, prior negative experiences, lack of training on the part of the teachers, organisational problems in the school and classroom or lack of control in the classroom (Martínez-Benito & Sánchez, 2020), applying CL in PE seems to favour the inclusion of the students both in Primary (Klavina et al., 2014; Páez et al., 2018) and Secondary Education (Simoni et al., 2013; Muntaner Guasp &

Forteza Forteza, 2021). In this same line of thought, different studies conclude that CL is the methodology that most favours the inclusion of immigrant girl students (Nieva & Lleixà, 2016) and students with a disability (Klavina et al., 2014; Páez et al., 2018) at different educational stages (Simoni et al., 2013). Similarly, CL must be developed and applied in initial teacher training so that teachers can experience and implement this methodology (Herrero-González et al., 2021; Jiménez-Díaz & Salicetti-Fonseca, 2022).

However, despite studies on the perception of university students regarding inclusion or CL, most investigations focus on one topic and do not address them together. There are also a few studies that have analyzed whether there are differences in perception and knowledge of inclusion and CL according to sex among university students. Similarly, no studies have been found that analyze whether there are differences according to the level of studies (degree vs. post-graduate). Conducting this study is crucial because understanding the perceptions of future physical education teachers regarding inclusion and collaborative learning can provide indicators of whether they are adequately prepared to implement inclusive education and whether they have a positive attitude toward these topics. Furthermore, both gender and academic level in this sample can influence the perception and knowledge of inclusion and collaborative learning. Therefore, the objectives of the present study were: 1) to analyze the internal consistency of several questionnaires on inclusion and CL applied to university students, 2) to discover the perception and knowledge of inclusion and CL in PE of university students who are studying topics related to PE and PA or sport, and 3) to analyze the differences according to sex and level of studies (degree vs. post-graduate).

## Method

## **Participants**

Two hundred and eighty university students participated in this study (22.1  $\pm$  3.0 years) from five Spanish universities and four different degrees, of whom 97 were women (21.9  $\pm$  2.8 years) and 183 were men (22.2  $\pm$  3.2 years). All the participants were university students who were enrolled in one of the following official study courses related to PA or PE: Degree in Physical Activity and

Sports Sciences, Degree in Primary Education–PE minor, an official Master's Degree related to PA and sport, a Master's Degree in Teacher Training in Secondary Education or a doctoral programme related to PA and sport. The study followed the guidelines established in the Declaration of Helsinki (2013) and was approved by the Ethics Committee for Research on Human Beings at the University of the Basque Country (UPV/EHU) (CEISH M10/2021/165).

#### **Procedure**

Four previously validated questionnaires on inclusion and CL were used to understand the perception and knowledge of university students regarding inclusion and CL in PE: 1) (Tárraga et al., 2013), 2) (González-Gil et al., 2017), 3) (Traver & García, 2007), and 4) (García et al., 2012). The questionnaires were sent out between November 24, 2022, and February 16, 2023, via email to the various management organs of the faculties, departments, master's academic committees, and doctoral programs at the Spanish universities offering official courses. After the corresponding approval from the management organs of the various courses, university students received the questionnaire via the corporate email system. A reminder was sent one month after the questionnaire was sent out. Data collection was conducted via the Google Forms platform, and the data were later downloaded into an .xls file for further analysis.

#### Measurements

Bearing in mind that the validation of the four questionnaires had been conducted between 2007 and 2017 (García et al., 2012; González-Gil et al., 2017; Tárraga et al., 2013; Traver & García, 2007), and that between five to 15 years had passed, the questionnaires were minimally adapted to the current terminology. The modifications were minimal and specifically addressed the formulation of items using inclusive language regarding gender. The adaptation was carried out by two experts in questionnaires and the study topic, one with more than 20 years' scientific experience and practice in the field of PE and many scientific publications on the topic, and the other a graduate of Primary Education and Master's in Physical Activity and Sports Sciences.

## Questionnaires On Inclusion In Physical Education

The questionnaire "The scale of attitudes towards special educational needs (EANEE by its Spanish acronym)" was validated by Tárraga et al. (2013) and used to discover the perception of the university students regarding inclusion in PE. This is the Spanish adaptation of the Opinions Relative to Integration of Students with Disabilities Scale (ORI) by Antonak and Larrive (1995). The adaptation by Tárraga et al. (2013) had been used recently by Abellán and Sáez-Gallego (2020) in a study with similar characteristics to the present investigation. The questionnaire contains 23 items with answers on a Likert-type scale with 5 options: 1= "strongly disagree," 2 = "disagree," 3 = "indifferent," 4 = "agree," 5 = "strongly agree" and is divided into five blocks. The first block (n = 9 items) refers to the benefits of inclusion. The second block (n = 4 items) focuses on generalist attention vs. specialist attention. The third block (n =4 items) analyses the methodology and management of behaviour in the classroom. The fourth block (n = 3 items) refers to the effort and dedication of the teachers toward the students with special educational needs. Lastly, the fifth block (n = 3 items) examines the training and competence of the teachers.

The questionnaire "Teachers' evaluation of educational inclusion (adaptation of the CEFI-R for university students)", previously validated by González-Gil et al. (2017), was used to discover the perception and knowledge of the participating university students in studies on inclusion and how to implement it. This scale is based on the CEFI-R questionnaire, which assesses teacher training in inclusion by González-Gil et al. (2019). The CEFI-R questionnaire has often been used in studies of similar characteristics aimed at university students (Falla et al., 2022; Rojo-Ramos et al., 2020) and teachers (Tárraga-Mínguez et al., 2022; Triviño-Amigo et al., 2022b; Triviño-Amigo et al., 2022a). The questionnaire contains 16 items with answers on a Likert-type scale with 5 options: 1 = "strongly disagree," 2 = "disagree," 3 = "indifferent," 4 = "agree," 5 = "strongly agree" and is divided into four dimensions. The first dimension (n = 4 items) refers to the conception of diversity. The second dimension (n = 5 items) relates to methodology. The third dimension (n = 4 items) examines the teachers' support. The last dimension (n = 3 items) examines the community's participation. For the present study, the original Likert

scale of 1 to 4 (González-Gil et al., 2017) was modified to equate the answers to those of the rest of the questionnaires.

# Questionnaires On Cooperative Learning In Physical Education

The questionnaire "Scale of teachers' attitude toward educational innovation using cooperative techniques (CAPIC)", validated by Traver and García (2007), was used to discover the perception of the university students regarding CL. This questionnaire had been used recently in a study with participants of similar characteristics (Fernández and Espada, 2016). The questionnaire is composed of 19 items with answers on a Likert-type scale with five options: 1 = "strongly disagree," 2 = "disagree," 3 = "indifferent," 4 = "agree," 5 = "strongly agree" and is divided into 13 categories: 1. It improves the interpersonal relations of the students (n = 2 items); 2. It favors the integration of students with special educational needs, both of an affective nature and relative to academic performance, facilitating adaptation to different learning paces (n = 3 items); 3. It avoids or at least counters competitiveness, favouring mutual help and giving value to collaboration (n = 2 items); 4. Positive evaluation of individual contributions to the solution of group conflicts, using a personal contribution to a common task (n = 2 items); 5. It improves the ability to express oneself both individually and in a group, making possible and favouring the communication of everyone at several levels (n = 2 items); 6. It enriches the group through the contribution of new ideas (n = 1 item); 7. It motivates students much more, fomenting their participation in the work developed in the classroom (1 item); 8. It favours debate and group work (2 items); 9. It favors the acquisition of the habit of group coexistence and respect for others (n = 2 items); 10. It favours and potentiates student socialisation; 11. We all learn: students and teachers; interactively building knowledge, becoming aware that we all learn from everyone, not just the teacher (n = 2 items); 12. It favors and makes possible the existence of the group, creating a "group climate" and giving it cohesion (n = 1item); 13. It favours the attitude of solidarity (n = 1 item); and 14. It favours taking on responsibility (n = 2 items).

The questionnaire "Analysis of Cooperation in Higher Education (ACOES)", previously validated by García et al. (2012) was used to discover the perception and knowledge of the participants on the use of CL. The ACOES questionnaire had been used recently in a study

with participants with similar characteristics and aimed at university students of the Degree in Primary Education (Feria-Madueño et al., 2017). The questionnaire is composed of 49 items with answers on a Likert type scale with 5 options 1 = strongly disagree", "2 = disagree", "3 = indifferent", "4 = agree", "5 = strongly agree, and is divided into 7 dimensions: conception of group work (n = 5 items); usefulness of group work for their training (n = 6 items); planning of group work by the teachers (n = 4 items); criteria for organising the groups (n = 8 items); norms for the groups (n = 9 items); internal working of the groups (n = 7 items); and efficacy of group work (n = 10 items). Moreover the ACOES scale incorporates three open questions at the end of the questionnaire.

## **Statistical Analysis**

The results are presented as mean ± standard deviation. A descriptive analysis was also conducted calculating the frequencies and percentages of the replies of the participants for each item or question. The Kolmogorov-Smirnov and Levene tests were performed to check the normality of the data and equality of variance, respectively. Cronbach's Alpha (α) was used to calculate the internal consistency of each questionnaire and of the different dimensions or blocks of each questionnaire, and was qualitatively interpreted as follows: acceptable (0.60 - 0.70) and excellent (0.70 - 0.90) (Nunnally & Bernstein, 1994). The Mann Whitney U test was used to calculate the difference in means between the results obtained from the men and women or of those obtained according to the level of studies (degree vs. post-graduate). The magnitudes of the differences was calculated using the probability of superiority (PS) (Erceg-Hurn & Mirosevich, 2008), according to the following qualitative interpretation: no differences between means (PS = 0.00 - 0.50), small (PS = 0.50 -0.56), medium (PS = 0.56 - 0.71) and large (PS > 0.71) differences (Grissom, 1994). The  $\chi^2$  test was used to analyse the differences in the distribution of frequencies and percentages of answers between men and women and the level of studies. The statistical analysis was performed with the Statistical Package for the Social Sciences (SPSS Inc, version 27.0, Chicago, IL, USA.). Statistical significance was established at p < 0.05.

**Table 1**Results of the Internal Consistency of all the Items in Each Questionnaire and Each Block

| EANEE   |      |
|---|------|
| 1. Benefits of inclusion (9 items)  | 0.5  |
| 2. Generalist attention vs. specialist attention (4 items)  | 0.4  |
| Methodology and management of behaviour in the classroom (4 items)  | 0.3  |
| Effort and dedication of the teachers towards the students with special educational needs (3 items)   | 0.6  |
| 5. Training and competence of the teachers (3 items)  | 0.2  |
| Total items EANEE (23 items)  | 0.7  |
| CEFI-R  | ***  |
| Conception of diversity (4 items)   | 0.7  |
| 2. Methodology (5 items)  | 0.9  |
| 3. Support (4 items)  | 0.6  |
| 4. Participation of the community (3 items)   | 0.8  |
| Total items CEFI-R (16 items)   | 0.7  |
| CAPIC   |      |
| 1. It improves students' interpersonal relations (2 items)  | 0.9  |
| 2. It favours the integration of students with special educational needs, both of an affective nature and related to academic   | 0.1  |
| performance, facilitating adaptation to different learning paces (3 items)  | ***  |
| 3. It avoids or at least counters competitiveness, favouring mutual help and giving value to collaboration (2 items)  | -0.2 |
| 4. Positive evaluation of individual contributions to the solution of group conflicts, using a personal contribution to a common task   | 0.8  |
| (2 items)   |      |
| 5. It improves the ability to express oneself both individually and in a group, making possible and favouring the communication of  | -0.5 |
| everyone at several levels (2 items)  |      |
| 6. It enriches the group through the contribution of new ideas (1 item)   | -    |
| 7. It motivates students much more, fomenting their participation in the work developed in the classroom (1 item)   | -    |
| 8. It favours debate and group work (2 items)   | -0.2 |
| 9. It favours the acquisition of the habits of group coexistence and respect for others (2 items)   | 0.7  |
| 10. It favours and potentiates student socialisation (2 items)  | 0.8  |
| 11. We all learn: students and teachers; building knowledge in an interactive manner, becoming aware that we all learn from   | 0.8  |
| everyone, not just the teacher (2 items)  | 0.0  |
| 12. It favours and makes possible the existence of the group, creating a "group" climate and giving it cohesion (1 item)  | -    |
| 13. It foments an attitude of solidarity (1 item)   | -    |
| 14. It favours taking on responsibility (2 items)   | 0.8  |
| Total items CAPIC (25 items)  | 0.8  |
| ACOES   | 0.0  |
| Conception of group work (I consider group work to be) (5 items)  | 0.8  |
| 2.Usefulness of group work for their training (Personally, group work helps me to) (6 items)  | 0.9  |
| 3. Planning of the group work by the teachers (On the planning that the teachers carry out for group work I think that) (4 items)   | 0.8  |
|   |      |
| 4. Criteria for organising the groups (The constitution of the group should be) (8 items)   | 0.4  |
| 5. Norms of the group (The operating norms of the group) (9 items)  | 0.7  |
| 6. Internal working of the groups (Normally, when doing a group task) (7 items)   | 0.8  |
| 7. Efficacy of group work (The performance of the group improves if) (10 items)   | 0.9  |
| Total items ACOES (52 items)  | 0.9  |
| Total questionnaires (113 items)  CFFLR = Teachers' evaluation of educational inclusion. EANFE = The scale of attitudes towards special educational needs. CAPIC = Scale of teachers' attitude towards ed | 0.9  |

CEFI-R = Teachers' evaluation of educational inclusion, EANEE = The scale of attitudes towards special educational needs, CAPIC = Scale of teachers' attitude towards educational innovation using cooperative techniques, ACOES = Analysis of Cooperation in Higher Education.

## Results

The results of the internal consistency of the different questionnaires used are presented in Table 1. The CEFI-R questionnaire obtained an excellent value for total internal consistency (n = 16 items,  $\alpha = 0.7$ ), and an acceptable or excellent consistency per block ( $\alpha =$ 0.6-0.9). The EANEE questionnaire obtained excellent values of internal consistency in all the items (n = 23 items,  $\alpha = 0.7$ ), although the consistency per block was lower ( $\alpha = 0.2$ -0.6). The CAPIC questionnaire obtained an excellent internal consistency (n = 25 items,  $\alpha = 0.8$ ), although the internal consistency of some blocks was also lower ( $\alpha = -0.5$ , 0.9). Lastly, the ACOES questionnaire showed an excellent total consistency (n = 52 items,  $\alpha = 0.9$ ), as did the consistency per block ( $\alpha = 0.7$ -0.9) except in one of the blocks where it was lower ( $\alpha = 0.4$ ). Moreover, the internal consistency of all the items of all the questionnaires was excellent (n = 113 items,  $\alpha = 0.9$ ).

#### The EANEE Questionnaire

Table 2 shows the results obtained by the participants on the EANEE questionnaire. High percentages in favour of inclusion were observed in the items related to the block "Benefits of inclusion." Regarding the blocks "Generalist attention vs. specialist attention" and "Effort and dedication of the teachers towards the students with special educational needs," high percentages were obtained in the most of the items for the "indifferent" and "I agree" options. Regarding the blocks "Methodology and management of behaviour in the classroom" and "Training and competence of the teachers," high percentages were seen in the "I disagree," "Indifferent," and "I agree."

The men obtained higher values than the women in items 5, 9, 10, 12, 14, 16, 17, 18, and 20 (p < 0.05, PS = 0.58 – 0.65, medium,  $\chi^2$  = 8.7 – 20.9, p < 0.01). Moreover, they also obtained higher values than the women in item 8 (p < 0.05, PS = 0.60, medium), although significant differences were not observed in the  $\chi^2$  test (p > 0.05). However, the women obtained higher values than the men in items 15, 19 and 21 (p < 0.05, PS = 0.38 – 0.40,  $\chi^2$  = 10.6 – 16.5, p < 0.01). There was no difference in the means of men and women in item 23, but significant differences were obtained in the Chi² test ( $\chi^2$  = 10.8, p < 0.05).

Regarding the differences according to level of studies (graduate vs. post-graduate), no significant differences were found (p > 0.05) in any of the items on the EANEE questionnaire.

# The CEFI-R Questionnaire

Table 3 presents the descriptive results obtained by the participants in the CEFI-R questionnaire. In the items related to the block "Conception of diversity," high percentages were obtained in the options "I strongly disagree," "I disagree," and "Indifferent." Regarding the block "Methodology" high percentages were obtained in the

**Table 2**Results Obtained by all the Participants (N = 280) on the Questionnaire Scale of Attitudes Toward Special Educational Needs (EANEE)

| Item   | Mean ± SD     | I strongly<br>disagree | I disagree  | Indifferent  | I agree     | I strongly agree |
|--|---------------|------------------------|-------------|--------------|-------------|------------------|
| BENEFITS OF INCLUSION  |               |                        |             |              |             |                  |
| 18. Inclusion probably has a negative effect on the emotional development of the students with   | $1.9\pm1.1$   | 45.7% (128)            | 31.8% (89)  | 12.1% (34)   | 7.5% (21)   | 2.9% (8)         |
| special educational needs  |               |                        |             |              |             |                  |
| 10. The behaviour of the students with special educational needs is a bad example for their  | $1.8\pm1.1$   | 53.2% (149)            | 24.3% (68)  | 13.9% (39)   | 5.7% (16)   | 2.9% (8)         |
| classmates without special educational needs.  |               |                        |             |              |             |                  |
| 19. Students with special educational needs should be given the opportunity to be integrated into  | $4.3\pm0.8$   | 1.4% (4)               | 1.8% (5)    | 10.0% (28)   | 37.9% (106) | 48.9% (137)      |
| generalist classes whenever possible.  |               |                        |             |              |             |                  |
| 2. The inclusion of students with special educational needs facilitates interactions between   | $4.3\pm0.8$   | 0.7% (2)               | 1.8% (5)    | 13.6% (38)   | 39.6% (111) | 44.3% (124)      |
| students with and without special educational needs and foments understanding and acceptance of  |               |                        |             |              |             |                  |
| differences among students.  |               |                        |             |              |             |                  |
| 15. The inclusion of students with special educational needs can be beneficial for students  | $4.2 \pm 0.8$ | 1.1% (3)               | 3.2% (9)    | 10.0% (28)   | 42.5% (119) | 43.2% (121)      |
| without special educational needs.   |               |                        |             |              |             |                  |
| 12. The inclusion of students with special educational needs does not promote their social   | $2.2 \pm 1.2$ | 31.4% (88)             | 33.9% (95)  | 17.1% (48)   | 13.6% (38)  | 3.9% (11)        |
| independence.  |               |                        |             |              |             |                  |
| 5. The "extra" attention required by students with special educational needs has negative  | $2.1 \pm 1.1$ | 34.3% (96)             | 36.8% (103) | 16.1% (45)   | 10.7% (30)  | 2.1% (6)         |
| repercussions for the rest of the students in the classroom.   |               |                        |             |              |             |                  |
| 16. Students with special educational needs probably create confusion in the generalist  | $2.5 \pm 1.1$ | 18.6% (52)             | 32.1% (90)  | 29.2% (79)   | 19.3% (54)  | 1.8% (5)         |
| classroom.   |               | 4.407.000              | T 40/ (20)  | 22 00/ // 0  | 50 00/ /LEO | 46.407.745       |
| 1. The majority of students with special educational needs make the necessary efforts to carry out   | $3.8 \pm 0.8$ | 1.1% (3)               | 7.1% (20)   | 22.9% (64)   | 52.9% (148) | 16.1% (45)       |
| their school tasks.  |               |                        |             |              |             |                  |
| GENERALIST ATTENTION vs. SPECIALIST ATTENTION  |               |                        |             |              |             |                  |
| 11. The students with special educational needs will probably develop academic abilities more  | $3.3 \pm 0.9$ | 2.9% (8)               | 14.6% (41)  | 39.3% (110)  | 34.3% (96)  | 8.9% (25)        |
| quickly in a generalist classroom than in a specialist classroom.  |               |                        |             |              |             |                  |
| 6. The challenge of being in a generalist classroom foments the academic progress of students  | $3.7 \pm 0.9$ | 1.4% (4)               | 7.5% (21)   | 27.5% (77)   | 45.4% (127) | 18.2% (51)       |
| with special educational needs.  |               | 2.50/ (5)              |             | 20.10/.055   | 46.400.4400 | 25 407 (54)      |
| <ol> <li>The best option for students with special educational needs is to be included in generalist</li> </ol>                              | $3.9 \pm 0.9$ | 2.5% (7)               | 5.7% (16)   | 20.4% (57)   | 46.1% (129) | 25.4% (71)       |
| classrooms.  | 2.5 ± 1.1     | 17.00/ (50)            | 22.08/ (02) | 21 10/ (07)  | 14.20/ (40) | 2.00/ (11)       |
| 22. Being separated in specific classrooms has a positive effect on the emotional development of<br>students with special educational needs. | 2.5 ± 1.1     | 17.9% (50)             | 32.9% (92)  | 31.1% (87)   | 14.3% (40)  | 3.9% (11)        |
| students with special educational needs.  METHODOLOGY AND MANAGEMENT OF BEHAVIOUR IN THE CLASSROOM   |               |                        |             |              |             |                  |
|  |               |                        |             |              |             |                  |
| 3. Students with special educational needs will probably exhibit behavioural problems in   | $3.1 \pm 1.0$ | 5.7% (16)              | 26.1% (73)  | 31.1% (87)   | 29.6% (83)  | 7.5% (21)        |
| generalist classrooms.   |               |                        |             |              |             |                  |
| 8. The increase in freedom in a generalist classroom creates too much confusion in students with   | $2.8 \pm 1.0$ | 9.3% (26)              | 28.9% (81)  | 37.1% (104)  | 21.4% (60)  | 3.2% (9)         |
| special educational needs.   |               | 10.50/ (0.5)           | 2010/100    | 24 00/ (00)  | 44.20/ /40  | 200//14          |
| 23. The students with special educational needs are not socially isolated in generalist classrooms.  | $2.8 \pm 1.1$ | 12.5% (35)             | 27.1% (76)  | 31.8% (89)   | 14.3% (40)  | 3.9% (11)        |
| 7. The inclusion of students with special educational needs requires significant changes in the  | $3.5 \pm 1.0$ | 1.8% (5)               | 14.3% (40)  | 27.9% (78)   | 39.6% (111) | 16.4% (46)       |
| methodology of the generalist classroom.   |               |                        |             |              |             |                  |
| EFFORT AND DEDICATION OF THE TEACHERS TOWARDS THE STUDENTS WITH  |               |                        |             |              |             |                  |
| SPECIAL EDUCATIONAL NEEDS  |               |                        |             |              |             |                  |
| 20. The behaviour in class of a student with special educational needs does not generally require  | $2.9 \pm 1.0$ | 8.2% (23)              | 28.6% (80)  | 33.6% (94)   | 23.6% (66)  | 6.1% (17)        |
| more patience on the part of the teacher compared to the behaviour of students without special   |               |                        |             |              |             |                  |
| educational needs.   | 24.10         |                        | 22.00/ (64) | 24.20/ (0.0) | 22.40/ (20) |                  |
| 14. The students with special educational needs do not monopolise the time the generalist teacher  | 3.1 ± 1.0     | 4.3% (12)              | 22.9% (64)  | 34.3% (96)   | 32.1% (90)  | 6.4% (18)        |
| devotes to their students.   | 22.11         | C 10/ (18)             | 21.00/ (61) | 20.00/ (0.0  | 22.00/ (02) | 0.007 (0.0)      |
| 13. It is not more difficult to maintain order in a classroom with a student with special educational  | 3.2 ± 1.1     | 6.1% (17)              | 21.8% (61)  | 30.0% (84)   | 32.9% (92)  | 9.3% (26)        |
| needs than in a classroom without students with special educational needs.   |               |                        |             |              |             |                  |
| TRAINING AND COMPETENCE OF THE TEACHERS  |               |                        |             |              |             |                  |
| 9. Generalist teachers have sufficient professional competence to work with students with special  | $2.6 \pm 1.1$ | 17.1% (48)             | 32.9% (92)  | 25.0% (70)   | 20.7% (58)  | 4.3% (12)        |
| educational needs.   |               |                        |             |              |             |                  |
| 17. Generalist teachers have sufficient training to teach students with special educational needs  | $2.5 \pm 1.1$ | 17.5% (49)             | 42.1% (118) | 20.0% (56)   | 15.7% (44)  | 4.6% (13)        |
| 21. Specialist teachers attend to students with specialist educational needs better than generalist  | $3.9\pm1.0$   | 2.5% (7)               | 9.6% (27)   | 12.1% (34)   | 47.9% (134) | 27.9% (78)       |
| teachers.  |               |                        |             |              |             |                  |

SD = standard deviation. The data from the Likert scale are shown in percentages and frequencies.

options "Indifferent,", "I agree," and "I strongly agree". Referring to the items related to the block "Support" and "Participation of the community," high percentages were observed in the options "I agree" and "I strongly agree."

The men recorded higher values than the women in items 1 and 4 (p < 0.05, PS = 0.57 – 0.65, medium,  $\chi^2 = 15.8 - 21.1$ , p < 0.01). In contrast, the women recorded higher values than the men in items 10 and 14 (p < 0.05, PS = 0.39 – 0.41,  $\chi^2 = 10.5 - 14.3$ , p < 0.05). Moreover, the women recorded higher values than the men in item 9 (p < 0.05, PS = 0.41), although no significant differences were seen in the Chi² test (p > 0.05).

With regard to the differences according to level of studies (graduate vs. post-graduate), the post-graduate students obtained higher values than the graduate students in items 10 and 14 (p < 0.05, PS = 0.30 - 0.33,  $\chi^2 = 10.3 - 15.4$ , p < 0.05). Similarly, the post-graduate students obtained higher values than the graduate students in items 11, 13, 15 and 16 (p < 0.05, PS = 0.34 - 0.37), although no significant differences were observed in the  $\chi^2$  test. Moreover, although no differences in means were found between the graduate and post-graduate students in item 4, there were significant differences in the  $\chi^2$  test (p < 0.05).

# The CAPIC Questionnaire

Table 4 shows the results obtained by the participants in the CAPIC questionnaire. High percentages were obtained in "I agree" and "I strongly agree" in most of the items, except items 5, 10, 13, 15, and 22 in which high percentages were obtained in "I strongly disagree" and "I disagree." In item 22, a high percentage was recorded in the options "Indifferent" and "I agree."

The men got higher values than the women in items 6, 10, 13, and 15 (p < 0.05, PS = 0.59 – 0.64, medium,  $\chi^2 = 12.4 - 21.2$ , p < 0.01). In contrast the women got higher values in items 1, 2, 3, 4, 7, 8, 9, 11, 12, 17, 18, 19, 20, 21, 23, 24, and 25 (p < 0.05, PS= 0.33 – 0.39,  $\chi^2 = 12.1 - 27.9$ , p < 0.01 or p < 0.05). Moreover, the women got higher values than the men in item 16 (p < 0.05, PS = 0.43) although no significant differences were observed in the  $\chi^2$  test (p > 0.05). Significant differences were not observed between the women's and men's means in items 5 and 14, but there were significant differences in the  $\chi^2$  test ( $\chi^2 = 14.9 - 22.9$ , p < 0.01).

**Table 3**Replies Obtained by all the Participants (N = 280) on the Teachers' Evaluation of Educational Inclusion (Adaptation of The CEFI-R for University Students) Questionnaire

| Item  | Mean ± SD     | I strongly  | I disagree  | Indifferent | I agree     | I strongly agree |
|---|---------------|-------------|-------------|-------------|-------------|------------------|
|   |               | disagree    |             |             |             |                  |
| CONCEPTION OF DIVERSITY:  |               |             |             |             |             |                  |
| 1. I would prefer not to have students with special educational needs in my classroom.                | $2.5\pm1.1$   | 46.4% (130) | 17.5% (49)  | 27.5% (77)  | 6.8% (19)   | 1.8% (5)         |
| 2. A child with specific needs for educational support interrupts the classroom routine and hinders   | $1.0\pm0.9$   | 40.4% (113) | 41.1% (115) | 11.1% (31)  | 6.8% (19)   | 1.8% (5)         |
| the learning of their companions.   |               |             |             |             |             |                  |
| 3. Students with special needs for educational support cannot follow the daily programme.             | $2.2\pm1.1$   | 32.1% (90)  | 36.8% (103) | 13.9% (39)  | 15.0% (42)  | 2.1% (6)         |
| 4. I worry that my work load will increase if I have a child with special needs for educational       | $2.0\pm1.1$   | 43.6% (122) | 26.8% (75)  | 16.4% (46)  | 10.4% (29)  | 2.9% (8)         |
| support in my classroom.  |               |             |             |             |             |                  |
| METHODOLOGY:  |               |             |             |             |             |                  |
| 5. I would know how to teach each of my students differently according to their individual            | $3.4 \pm 1.0$ | 5.0% (14)   | 18.9% (53)  | 17.5% (49)  | 51.4% (144) | 7.1% (20)        |
| characteristics.  |               |             |             |             |             |                  |
| 6. I would know how to develop didactic units and classes bearing in mind student diversity.          | $3.4\pm1.0$   | 3.6% (10)   | 16.1% (45)  | 20.0% (56)  | 53.2% (149) | 7.1% (20)        |
| 7. I would know how to adapt my form of assessment to the individual needs of each of my              | $3.6 \pm 1.0$ | 2.9% (8)    | 14.6% (41)  | 16.1% (45)  | 52.1% (146) | 14.3% (40)       |
| students.   |               |             |             |             |             |                  |
| 8. I would know how to manage and adapt the didactic material to respond to the needs of each of      | $3.6\pm0.9$   | 2.9% (8)    | 11.4% (32)  | 15.4% (43)  | 58.9% (165) | 11.4% (32)       |
| my students.  |               |             |             |             |             |                  |
| 9. I would be able to adapt my communication techniques to ensure that all the students can be        | $4.0\pm0.9$   | 1.8% (5)    | 6.4% (18)   | 11.4% (32)  | 53.2% (149) | 27.1% (76)       |
| successfully included in the ordinary classroom.  |               |             |             |             |             |                  |
| SUPPORT:  |               |             |             |             |             |                  |
| 10. Joint planning between teachers and support teachers would facilitate the support being           | $4.5\pm0.7$   | 0.4%(1)     | 1.4% (4)    | 5.4% (15)   | 35.0% (98)  | 57.9% (162)      |
| provided in the classroom.  |               |             |             |             |             |                  |
| 11. I think that the best way to provide support for the students is that the support teacher be      | $4.2\pm0.9$   | 1.1% (3)    | 3.9% (11)   | 15.4% (43)  | 36.4% (102) | 43.2% (121)      |
| incorporated into the classroom instead of being in the support classroom.                            |               |             |             |             |             |                  |
| 12. The function of the support teachers is to work with all the students in my classroom.            | $3.2\pm1.3$   | 10.7% (30)  | 20.0% (56)  | 24.3% (68)  | 26.8% (75)  | 18.2% (51)       |
| 13. I consider that the place for the support teachers is in the ordinary classrooms with each of the | $4.0\pm0.9$   | 1.1%(3)     | 6.8% (19)   | 15.4% (43)  | 44.6% (125) | 32.1% (90)       |
| teachers.   |               |             |             |             |             |                  |
| PARTICIPATION OF THE COMMUNITY:   |               |             |             |             |             |                  |
| 14. The educational project should be reviewed with the participation of the different agents in      | $4.2\pm0.9$   | 1.1%(3)     | 4.3% (12)   | 8.9% (25)   | 43.9% (123) | 41.8% (117)      |
| the educational community (teachers, parents, students).  |               |             |             |             |             |                  |
| 15. It is fundamental to have a close relationship between the students and the rest of the agents in | $4.3\pm0.8$   | 1.1% (3)    | 2.1% (6)    | 11.1% (31)  | 35.7% (100) | 50.0% (140)      |
| $education \ (parents' \ association, \ neighbourhood \ association, \ school \ council, \ldots).$    |               |             |             |             |             |                  |
| 16. The school should work in conjunction with the neighbourhood resources (library, social           | $4.3\pm0.8$   | 0.7% (2)    | 2.5% (7)    | 7.9% (22)   | 44.3% (124) | 44.6% (125)      |
| services, health services,).  |               |             |             |             |             |                  |

SD = standard deviation. The data from the Likert scale are shown in percentages and frequencies

With regard to the differences according to level of studies (graduate vs. post-graduate), the post-graduate students had higher values in items 7 and 24 (p < 0.05, PS = 0.37 - 0.38) although significant differences were not observed in the  $\chi^2$  test (p > 0.05). No differences were observed in the means of the graduate and post-graduate students for item 5, but there were significant differences on the  $\chi^2$  test ( $\chi^2 = 11, 1, p < 0.05$ ).

# The ACOES Questionnaire

Lastly, Table 5 shows the data obtained by the participants in the ACOES questionnaire. A strong majority of the items related to the blocks, "I consider that group work is," "Personally, group work helps me to," "Normally, when doing group work," and "Group per-

**Table 4**Replies Obtained from all the Participants (N = 280) in the "Scale of Teachers' Attitude Towards Educational Innovation using Cooperative Techniques" (CAPIC) Questionnaire

| Li am convinced that if my finner stadents use cooperative working methods their interpersonal    1. I am convinced that if my finner stadents use cooperative working methods their interpersonal    2. I consider that the application of cooperative working methods among my future stadents in my group, will will diverleg abilitize of social interaction among these uses students.   3. I for agrination facilities in my finare data use their bay lad to work in group, it would were free integration in the class of the students with special estatement among these uses students.   3. I for agricultural for its class of the students with special estatement among the students in my finare class group will facilities my adjust to the different learning pose.   3. I believe that the application of cooperative working methods does not improve the performance of adalose's my grant efficients.   5. I believe that the application of cooperative working methods does not improve the performance of adalose's my grant efficients.   5. I believe that the application of cooperative working methods does not improve the performance of adalose's my grant efficients.   5. I believe that the application of cooperative working methods does not improve the performance of adalose of the early sup have not force or manufal holy in my finare students in a 3.1 ± 1.1 8.6% (20) 24.6% (69) 26.8% (75) 31.1% (61) 8.6% (20) 24.6% (69) 26.8% (75) 31.1% (67) 8.6% (20) 24.6% (69) 26.8% (75) 31.1% (67) 8.6% (20) 24.6% (10) 25.6% (10) 2   | Item  | Mean ± SD     | I strongly | I disagree  | Indifferent | I agree       | I strongly agree |
|--|---|---------------|------------|-------------|-------------|---------------|------------------|
| 1. In convinced that of my fitners random use cooperative working methods their interpressual   4.4 ± 0.8  | neii  | Mean ± 3D     |            | 1 disagree  | mannerent   | 1 agree       | 1 strongly agree |
| Telestrons will improve. 2. I consider that the application of cooperative working methods among my fitture students in yargow will develope philliss of social interaction among those same students. 3. If regarded the activities in my finture class so that they had to work in groups, it woulds 4.3 ± 0.7 0.4% (1) 1.4% (4) 6.4% (18) 47.5% (123) 45.5% (126) from the integration in the class of the students with special chanterial receival. 4.2 ± 0.7 0.4% (1) 1.8% (5) 11.1% (31) 50.0% (140) 36.5% (103) adaptation to the different learning poses. 5. I believe that the application of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of a cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of cooperative working methods does not improve the profession of the complete o   | I am convinced that if my future students use cooperative working methods their interpersonal       | 4.4 ± 0.8     | -          | 3.2% (9)    | 6.8% (19)   | 40.0% (112)   | 49.6% (139)      |
| 2. I consider that the application of cooperative working methods among my future students in w growy will dively ablitises of social interaction among growy will acquire students.  3. If organization the christine in my future class to that they had to work in groups, it would from the integration in the class of the students with special doctational needs.  4. The application of cooperative working methods in my future class group will facilitate my dependent on the different learning pasces.  5. I believe that the application of cooperative working methods is my future students could work in a control that the students will report the difficulties.  6. I consider that even though I equation of years and future students could work in a control that the students will report the difficulties.  6. I consider that even though I equation of years and that my future students could work in a control that the students of includes an include an experiment of students will greater difficulties.  6. I consider that even though I equation of years and that my future students could work in a competitive matter, it would not avoid competitiveness among flows.  7. I an accoming of these of the self-ways I have 6 force mutual help in my future students is a properation of the self-ways I have 6 force mutual help in my future students in the subject of the self-ways I have 6 force with my future students in the subject of the self-ways I have 6 force with my future students in the subject of the self-ways I have 6 force with my future students work cooperatively in class.  8. If I accusation that discontinuous work cooperatively in class.  8. If I accusation that enabling mothetics work cooperatively will make 1 at 2 a 0.48 (1) 1.89 (5) 10.79 (6) 446% (12) 42.89 (17) 42.89 (17) 42.89 (18) 42.89 (19)   |   |               | *****(*)   | (/)         | (.,)        | (-1-2)        | ., (***)         |
| ### State   1.5   1.1   Congression the activities in my future class so that they had to work in groups, it would be received from the class of the students with special deactional needs.  4.1 he application of cooperative working methods in my future class group will facilitate my adaptation to the different learning pases.  5.   Leiceive that the application of cooperative working methods does not improve the performance of industrias with greater difficulties.  6.   Leiceive that the application of cooperative working methods does not improve the performance of industrias with greater difficulties.  6.   Leiceive that the application of cooperative working methods does not improve the performance of industrias with greater difficulties.  6.   Leiceive that the application of cooperative work may flavor to forewer manual lelp in my finare students in a 1 ± 1.1   8.6% (24)   24.6% (69)   26.8% (75)   31.1% (87)   8.9% (25)   8.9% (25)   1.7% (27)   1.1% (27)   1.1% (27)   1.2% (27)   1   |   | $4.3 \pm 0.7$ | 0.4%(1)    | 1.4% (4)    | 6.4% (18)   | 47.5% (133)   | 44.3% (124)      |
| 3. If I cognision the activities in my future class so that they had to work in groups, it would from the class of 6s indents with special classication rock.  4.1 the application of cognerative working methods in my future class group will facilitate my adaptation to the different learning paces.  5. I believe that the application of cognerative working methods does not improve the performance of instancts with general efficiency.  6. I consider that even though I organized my class so that my future students could work in a conjunct manner, it would not avoid competitive seas among them.  7. I am convinced that provides the competition of the different learning paces.  8. If I accusation that even though I organized my class so that my future students could work in a conjunct manner, it would not avoid competitiveness among them.  7. I am convinced one of the exist way lite to force mutual help in my future attacless is a conjunct to the competition and work cooperatively in class.  8. If I accusation the students in my future class to work in a cooperative manner, I will contribute to the other value collaboration and work cooperatively in class.  8. If I accusation the students in my future class to work in a cooperative manner, I will contribute to the other value qualification distribution to the commentals.  10. In the proposal contribution to the commentals.  10. In the proposal contribution to the commentals.  11. Using the application of cooperative forms of work among my future students, I consider that the request for excepting fluences below the coperatively mile move.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group fluences in the work of the commental manner, I will contribute to the fact that the students in my future class work cooperatively, will smooth.  13. I am convined that participating in group discussions.  14. C. Consider that the fact that the students in my future class work cooperatively, will show the cape of the fact that t   |   |               | *****(*)   | (-)         | *****       | ()            | ()               |
| A The application of cooperative working methods in my future class group will ficilitate my application to cooperative working methods does not improve the application for cooperative working methods does not improve the performance of attaches will greater difficulties.  5. I believe that the application of cooperative working methods does not improve the performance of attaches will greater difficulties.  5. I believe that the application of cooperative working methods does not improve the performance of attaches will greater difficulties.  6. I consider that or work of a work of the performance of attaches will greater difficulties.  7. I am continued that one of the best ways I have to favour manual ledp in my future students is a 42 ± 0.7 0.4% (1) 0.7% (2) 11.4% (2) 49.3% (138) 38.2% (107) to their valuing antiforulus could horizonta and work cooperatively in class.  8. If I accustom the attaches in my future class to work in a cooperative manuer, I will contribute to the cumbang distributed contributions to solve group conflicts positively.  9. If I accustom the attaches in my future class to work in a cooperative manuer, I will contribute to the cumbang distributed contributions to solve group conflicts positively.  9. If I accustom the attaches in my future students for solve their willingness to 43 ± 0.7 0.4% (1) 2.5% (7) 7.9% (22) 50.0% (140) 39.3% (110) collaborate, through their personal contributions to the common task.  10. I believe that, although my future students work with cooperative methods in class, it will not future communication among them.  11. Using the application of cooperative forms of work among my future students, I consider that the case that the students in my future class work cooperatively will favour their reports for expressing themselves both personally and as a group will improve.  12. believe that the fact that the students in my future class work cooperatively will favour the case will first free trades work in my future class work cooperatively will favour the case wor   |   | 4.3 ± 0.7     | 0.4%(1)    | 1.4% (4)    | 8.9% (25)   | 44.3% (124)   | 45.0% (126)      |
| 4. The application of cooperative working methods in my future class group will facilitate my adaptation to the different learning paces.  5. I believe that the application of cooperative working methods does not improve the performance of students with greater difficulties.  6. I consider that even though I organized my class so that my future students could work in a conceptance man. The work and not work cooperatively means that my future students is only organized my class so that my future students is only three students in any future students with greater difficulties.  7. I am convinced that one of the best ways I have to fivorour mutual help in my future students is a 12 ± 0.7 0.4% (1) 0.7% (2) 11.4% (23) 49.3% (138) 38.2% (107) to make them value collaboration, through their greateral and work cooperatively in class.  8. If a securation the classites in my future to two win in a cooperatively means.  9. I am convinced that making students work cooperatively in class favours fleci willingness to collaborate, furning thirdwale contribution to the common task.  10. I believe that although my future students work with cooperatively methods in class, it will not proper through their greatest of cooperative forms of work among my future students, I consider that the students in my future class work cooperatively will enrich the group friendly the commission of new ideas.  12. I believe that although my future students in my future class work cooperatively will enrich the group friendly the commission of new ideas.  13. I am convinced that the set of methods of cooperative work among the students for my future class work cooperatively, will favour the qualified of the commission and errob group discussions in the classroom helps students to put the first that the students in my future class work cooperatively, will favour the account of hisbs for group operation work in my future class work cooperatively, will favour the account denth the set of methods of cooperative work among the students in my future clas   |   |               | ,          | ( )         | (.,         | - ( )         |                  |
| 2.5   1.6  | -   | $4.2 \pm 0.7$ | 0.4%(1)    | 1.8% (5)    | 11.1% (31)  | 50.0% (140)   | 36.8% (103)      |
| performance of students with greater difficulties.  6. Locussice that even though to regarised my class so that my future students could werk in a convinced that one of the best ways lave to favour mutual help in my future students is 4.2 ± 0.7 0.4% (1) 0.7% (2) 11.4% (22) 49.3% (138) 38.2% (107) to make them value collaboration and work cooperative in diss.  8. If I accordance that one of the best ways lave to favour mutual help in my future students is 4.2 ± 0.7 0.4% (1) 1.8% (5) 10.7% (30) 44.6% (125) 42.4% (119) to take them value collaboration and work cooperatively in class.  8. If I accordance that students in my future class to work in a cooperative positively.  9. I am convinced that making students work cooperatively in class favours their willingness to 6.1 ± 0.2 ± 1.2 33.2% (93) 40.0% (112) 9.6% (27) 11.4% (22) 50.0% (140) 39.3% (110) collaborate, through their personal contribution to the common task.  10. I believe that the fact that the saudents work with cooperative methods in class, it will not favour communication among them.  11. Using the application of cooperative forms of work among my future students, the other capacity for expressing themselves both personally and as a group will improve.  12. I believe that the fact that the saudents in my future class work cooperatively will enrich the saw of th   |   |               |            |             |             |               |                  |
| 6. I consider that even though I organised my class so that my future students could work in a cooperative manner, it would not avoid competitiveness among them.  7. I am convinced that one of the best ways I have to favour mutual help in my future students is 42 ± 0.7 0.4% (1) 0.7% (2) 11.4% (32) 49.3% (138) 38.2% (107) to make them value collaboration and work cooperatively in class.  8. If I accustom the students in my future class to work in a cooperative manner, I will contribute to their valuing individual contributions to solve group conflicts positively.  9. I am convinced that making students work cooperatively in class.  8. If I accustom the students in my future class to work in a cooperative methods in class, it will not favour original individual contributions to solve group conflicts positively.  9. I am convinced that making students work cooperatively methods in class, it will not favour original individual contributions to solve group conflicts positively.  10. I believe that, although my future students work with cooperative methods in class, it will not favour original individual contributions to solve competitive methods in class, it will not favour original position of cooperative forms of work among my future students, I consider that the students in my future students work with cooperative methods in class, it will not favour original position of cooperative forms of work among my future students, I consider that the students in my future class work cooperatively will enrich the students or solve that the fact that the students in my future class work cooperatively will enrich the students or my future students or my future class work cooperatively, will favour the value of favour motivation towards learning.  16. I cl consider that the students in my future class work cooperatively, will favour the value of the students work as a group the ones with higher achievements will suffer.  17. Using methods of cooperative work in my future class work cooperatively, will help them to see themsel   | 5. I believe that the application of cooperative working methods does not improve the               | 2.3 ± 1.3     | 31.4% (88) | 34.6% (97)  | 11.1% (31)  | 14.3% (40)    | 8.6% (24)        |
| To a convinced that one of the best ways I law to favour antitud help in my future students is a 42 ± 0.7  0.4% (1) 0.7% (2) 11.4% (2) 49.3% (138) 38.2% (107) to make them value collaboration and werk cooperatively in class frows the in a cooperative manner, I will contribute to make them value collaboration and werk cooperatively in class frowers their willingness to a 3 ± 0.8  0.4% (1) 1.8% (5) 10.7% (50) 44.6% (122) 42.4% (119) to their valuing individual contributions to solve group certificts positively.  9. I am convinced that making students work cooperatively in class frowars their willingness to a 3 ± 0.7  0.4% (1) 2.5% (7) 7.9% (22) 50.0% (140) 39.3% (110) collaborate, through their personal contribition to the common task.  10. I believe that, although my finture students work with cooperative methods in class, it will not a 2 ± 1.2 33.2% (93) 40.0% (112) 9.6% (2) 52.5% (147) 35.4% (99) their capacity for expressing themselves both personally and as a group will improve.  11. Using the application of cooperative forms of work among my finture students in my future class work cooperatively will earth the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my finture and the favor motivation towards learning.  14. C I consider that the fact that the students in my future class work cooperatively, will favor a 40 ± 0.9 2.1% (6) 3.6% (10) 11.4% (4) 43.9% (40) 42.2% (135) 31.8% (99) 14.1% (10) 14.0% (40) 42.2% (135) 42.6% (135) 42.6% (136) 42.6%   | performance of students with greater difficulties.  |               |            |             |             |               |                  |
| 7. Iam convinced that one of the best ways I have to favour mutual help in my future students is 4 2 ± 0.7 0.4% (1) 0.7% (2) 11.4% (32) 49.3% (138) 38.2% (107) to make them value collaboration and work cooperatively in class. B. If accustom the students in my future class to work in a cooperative manner, I will contribute to their valuing individual contributions to solve group conflicts positively.  9. I am convinced that making students work cooperatively in class favours their willingness to collaborate, through their personal contributions to the common task.  10. I believe that, although my future students work with cooperative methods in class, it will not favour communication among them.  11. Using the application of cooperative forms of work among my future students, I consider that their capacity for expressing themselves both personally and as a group will improve.  12. I believe that the fath that the students in my future class work cooperatively will errich the group through the contribution of new ideas.  13. I am convinced that the students in my future class work cooperatively will favour a convinced that the students of emphods of cooperative work among the students of my future class work cooperatively, will favour the channels of communication and enrich group discussions in the classroom helps students to put the students of my future class work as a group the count in the fact that the students in my future class work cooperatively, will favour the acquisite for purp discussions in the classroom helps students to put the students of my future class work to operative work among the students to put the scale diversity in their own produced that the use of methods of cooperative work among the students in my future class work cooperatively, will become aware that all favour the scale diversity in their own group.  10. I think that participating in group discussions in the classroom helps students to put the scale diversity in their own group.  11. Using methods of cooperative work in my future   | 6. I consider that even though I organised my class so that my future students could work in a      | $3.1 \pm 1.1$ | 8.6% (24)  | 24.6% (69)  | 26.8% (75)  | 31.1% (87)    | 8.9% (25)        |
| to make them value collaboration and work cooperatively in class.  8. If I accossion the students in my future class to work in a cooperative manner, I will contribute to their valuing individual contributions to solve group conflicts positively.  9. In an convinced that making students work cooperatively in class favours their willingness to their valuing individual contributions to solve group conflicts positively.  10. I believe that, although my future students work with cooperative methods in class, it will not collaborate, through their personal contribution to the common task.  10. I believe that, although my future students work with cooperative methods in class, it will not favour communication among them.  11. Using the application of cooperative forms of work among my future students, I consider that capacity for expressing themselves both personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future class work cooperatively, will favour or whanness of communication and enrich group discussions.  14. CI consider that the fact that the students in my future class work cooperatively, will favour whanness of communication and enrich group discussions.  15. I think that if he students work as a group the conses with higher achievements will suffer.  23 ± 12. 2 ± 18. (8) 3.8% (89) 11.1% (87) 17.5% (49) 15.4% (40) 48.2% (12) 31.8% (89) 11.1% (13) 43.0% (10) 48.2% (12) 48.6% (12) 4   | cooperative manner, it would not avoid competitiveness among them.                                  |               |            |             |             |               |                  |
| 8. If I accustom the students in my future class to work in a cooperative manner, I will contribute to their valuing individual contributions to solve group conflicts positively.  9. I am convinced that making students work cooperatively in class favour their villingness to collaborate, through their personal contribution to the common tak.  10. I believe that, although my future students work with cooperative methods in class, it will not control that making students work with cooperative methods in class, it will not common tak.  10. I believe that, although my future students work with cooperative methods in class, it will not cause it will not common tak.  10. I believe that, although my future students work with cooperative methods in class, it will not class, it will not class that the students of most wicks.  11. Using the application of cooperative forms of work among my future students, I consider that capacity for expressing themselves both personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group discontribution of new ideas.  13. I am convinced that the students in my future class work cooperatively, will fivour the vork and enrich group discontribution of more wideas.  14. Clossider that the fact that the students in my future class work cooperatively, will fivour the vork and enrich group disconsions in the classroom helps students to put the meeting of the table that the students work as a group the ones with higher achievements will suffer.  15. I him that if the students work as a group the ones with higher achievements will suffer.  16. I am convinced that practicipating in group disconsions in the classroom helps students to put the second that practicipating in group disconsions in the classroom helps students to put the second that practicipating in group disconsions in the classroom helps students to put the second that practicipating in group disconsions in the classroom helps students to put the seco   | 7. I am convinced that one of the best ways I have to favour mutual help in my future students is   | $4.2\pm0.7$   | 0.4%(1)    | 0.7% (2)    | 11.4% (32)  | 49.3% (138)   | 38.2% (107)      |
| to their valuing individual contributions to solve group conflicts positively.  9. I am convinced that making students work cooperatively in class favours their willingness to collaborate, through their personal contribution to the common task.  10. I believe that, although my future students work with cooperative methods in class, it will not 2 2 ± 1.2 33.2% (93) 40.0% (112) 9.6% (27) 11.4% (32) 5.7% (16) favour communication among them.  11. Using the application of cooperative forms of work among my future students, I consider that the supplication of cooperative forms of work among my future students, I consider that the supplication of cooperative forms of work among my future students, I consider that the supplication of cooperative forms of work among themselves to the personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future 2.4 ± 1.2 26.8% (75) 36.8% (103) 11.1% (31) 19.3% (54) 6.1% (17) class will not favour motivation towards learning.  14. CI consider that the fact that the students in my future class work cooperatively, will favour whe channels of communication and enrich group discussion.  15.1 think that if the students work as a group the ones with higher achievements will suffer.  15.1 think that if the students work as a group discussion in the classroom helps students to put the supplies of that participating in group discussion.  15.1 think that if the students work as a group through the classroom leps students to put the supplies of that this for group occusions in the classroom helps students to put the supplies of that this students work in my future class work cooperatively will help them to see the social divour and potentiate their socialisation.  15.1 think the fact that the students in my future class work cooperatively will help them to see the social divour and   | to make them value collaboration and work cooperatively in class.                                   |               |            |             |             |               |                  |
| 9. I am convinced that making students work cooperatively in class favours their willingness to collaborate, through their personal contribution to the common task.  10. I believe that, although my future students work with cooperative methods in class, it will not recover communication among them.  11. Using the application of cooperative forms of work among my future students, I consider that value in the personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future class work cooperatively, will favour the sull and favour motivation towards learning.  14. CI consider that the fact that the students in my future class work cooperatively, will favour and potentiate that if the students work as a group the cones with higher achievements will suffer.  15. I think that if the students work as a group the ones with higher achievements will suffer.  16. I am convinced that participating in group discussions in the classroom, I consider that I will favour the acquisition of habits for group coexistence.  17. Using methods of cooperative work in my future class work cooperatively will left the sequence of habits for group occasioners.  18. I am convinced that the fact that the students in my future class work cooperatively will favour the acquisition of habits for group occasioners.  18. I am convinced that the fact that the students in the classroom, I consider that I will favour the acquisition of habits for group occasioners.  19. I think that if the students in my future class work cooperative work among the students in my future and potentiate their socialisation.  19. I think that participating in group work in the classroom, I consider that all all 4 ± 0.7 0.4% (1) 0.7% (2) 7.5% (2) 46.4% (130) 45.0% (120) 45.0% (120) 45.0% (120) 45.0% (120) 45.0% (120) 45.0% (120) 45.0% (120) 45.0% (120) 45.0%   | 8. If I accustom the students in my future class to work in a cooperative manner, I will contribute | $4.3\pm0.8$   | 0.4%(1)    | 1.8% (5)    | 10.7% (30)  | 44.6% (125)   | 42.4% (119)      |
| collaborate, through their personal contribution to the common task.  10. Teleficeve that, although my future students work with cooperative methods in class, it will not provide the publication among them.  11. Using the application of cooperative forms of work among my future students, I consider that the specific for expressing themselves both personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future $2.4 \pm 1.2$ $2.6.8\% (75)$ $3.6.8\% (103)$ $11.1\% (31)$ $19.3\% (54)$ $6.1\% (17)$ class will not forour motivation towards learning.  14. CI consider that the students in my future class work cooperatively, will favour heavy commentation and enrich group discussion.  15. I think that if the students work as a group the conses with higher achievements will suffer.  16. I am convinced that participating in group discussions in the classroom helps students to put the students work as a group the conses with higher achievements will suffer.  17. Using methods of cooperative work in my future class work cooperatively will help them to see the social diversity in their own group occusions on the classroom the students in my future class work cooperative work among the students in my future class work cooperative work among the students in my future class work (11) and (   | to their valuing individual contributions to solve group conflicts positively.                      |               |            |             |             |               |                  |
| 10. I believe that although my future students work with cooperative methods in class, it will not provide communication among them.  11. Using the application of cooperative forms of work among my future students, I consider that the fact that the students in my future class work cooperatively will enrich the group of their capacity for expressing themselves both personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future class work cooperatively, will favour new channels of communication and enrich group discussion.  15. I blink that if the students work as a group the ones with higher achievements will suffer.  16. I am convinced that participating in group discussions in the classroom helps students to put the there's places and better understand their reasons.  17. Using methods of cooperative work in my future class work cooperatively will favour the acquisition of habits for group eccisience.  18. I am convinced that the use of methods of cooperative work among the students in my future class work cooperatively. I believe they will become aware that all office and the students in my future class work cooperatively, ill flavour the acquisition of habits for group eccisience.  19. I think that if the students in my future class work cooperatively will help them to see the social diversity in their own group.  20. If the students in my future class work cooperatively, the group will not be class and flavour the building of use an learn from everyone.  21. I think that participating in group discussions work cooperatively, the group will not be class to the social diversity in their own group.  21. I think that participating in group diving cooperatively, the group will not be consider that it will flavour the building of use an learn from everyone.  22. I am convinced that, although my fut   | 9. I am convinced that making students work cooperatively in class favours their willingness to     | $4.3\pm0.7$   | 0.4%(1)    | 2.5% (7)    | 7.9% (22)   | 50.0% (140)   | 39.3% (110)      |
| favour communication among them.  11. Using the application of cooperative forms of work among my future students, I consider that that the supplication of cooperative forms of work among my future students, I consider that that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future 2.4 ± 1.2 26.8% (75) 36.8% (103) 11.1% (31) 19.3% (54) 6.1% (17) class will not favour motivation towards learning.  14. Cleousider that the fact that the students in my future class work cooperatively, will favour motivation towards learning.  15.1 think that if the students work as a group the ones with higher achievements will suffer.  15.1 think that if the students work as a group the ones with higher achievements will suffer.  15.1 think that if the students work as a group discussion in the classroom helps students to put themselves in the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group occisitence.  18. I am convinced that the use of methods of cooperative work among the students in my future acquisition of habits for group occisitence.  18. I am convinced that the use of methods of cooperative work among the students in my future acquisition of habits for group occisitence.  18. I am convinced that the use of methods of cooperative work among the students in my future acquisition of habits for group occisitence.  19. I think that the use of methods of cooperative work among the students in my future acquisition of habits for group occisitence.  24. 1 think that participating in group work in the classroom, I consider that I will favour the social diversity in their own group.  25. 1 think that participating in group work in the classroom will favour the building of use an learn from everyone.  26. 1 think that participating in group work in th   | collaborate, through their personal contribution to the common task.                                |               |            |             |             |               |                  |
| 11. Using the application of cooperative forms of work among my future students, I consider that capacity for expressing themselves both personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future class will not favour motivation towards learning.  14. CI consider that the fact that the students in my future class work cooperatively, will favour new channels of communication and enrich group discussion.  15. I think that if the students work as a group the ones with higher achievements will suffer.  15. I think that if the students work as group the ones with higher achievements will suffer.  15. I think that if the students work as group the ones with higher achievements will suffer.  23 ± 1.2  31.8% (89)  31.1% (87)  17.5% (49)  43.2% (18)  43.2% (18)  43.6% (10)  43.   | 10. I believe that, although my future students work with cooperative methods in class, it wlll not | $2.2\pm1.2$   | 33.2% (93) | 40.0% (112) | 9.6% (27)   | 11.4% (32)    | 5.7% (16)        |
| their capacity for expressing themselves both personally and as a group will improve.  12. I believe that the fact that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future class will not favour motivation towards learning.  14. CI consider that the fact that the students in my future class work cooperatively, will favour new channels of communication and enrich group discussion.  15. I think that if the students work as a group the ones with higher achievements will suffer.  16. I am convinced that participating in group discussions in the classroom helps students to put the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group occustence.  18. I am convinced that the students in my future class work cooperatively will help them to see the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all of use an learn from everyone.  21. I think that participating in group work in the classroom will favour the building of the social diversity in their own group.  22. I am convinced that, although my future students work cooperatively, the group will not be more aware of the social diversity because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of the social diversity because of it.  24. I think that belonging to a group doing cooperative work makes the students feel more aware of the social diversity because of it.  24. I think that belonging to a group doing cooperative work makes the students feel more aware of the stakes they have to do.  | favour communication among them.  |               |            |             |             |               |                  |
| 12. I believe that the fact that the students in my future class work cooperatively will enrich the group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future class will not favour motivation towards learning.  14. CI consider that the fact that the students in my future class work cooperatively, will favour new channels of communication and enrich group discussions.  15. I think that if the students work as a group the ones with higher achievements will suffer.  16. I am convinced that participating in group discussions in the classroom helps students to put the substitute of the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the social diversity in their own group.  18. I am convinced that the students in my future classroom, I consider that I will favour the social diversity in their own group.  20. If the students in my future class work cooperatively will help them to see the social diversity in their own group.  21. I think that participating in group work in the classroom will favour the building of the social diversity in their own group.  22. I am convinced that the students in my future students in my future the social diversity in their own group.  23. I think that participating in group work in the classroom will favour the building of the social diversity in their own group.  24. I think that participating in group work in the classroom will favour the building of the substitute that the students in my future students work cooperatively, the group will not be more aware of the social diversity in their own group.  25. I my future students work cooperatively, I consider that it will make them more aware of the substitutes the students work cooperatively, I consider that it will make them more aware of the substitutes the students work cooperative work makes the students feel more aware of the substitutes the students work  | 11. Using the application of cooperative forms of work among my future students, I consider that    | $4.2\pm0.7$   | 0.4%(1)    | 2.9% (8)    | 8.9% (25)   | 52.5% (147)   | 35.4% (99)       |
| group through the contribution of new ideas.  13. I am convinced that the use of methods of cooperative work among the students of my future class work cooperatively, will favour new channels of communication towards learning.  14. CI consider that the fact that the students in my future class work cooperatively, will favour new channels of communication and enrich group discussion.  15. I think that if the students work as a group the ones with higher achievements will suffer.  16. I am convinced that participating in group discussions in the classroom helps students to put the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the social diversity in their own group.  18. I am convinced that the use of methods of cooperative work among the students in my future $4.3 \pm 0.7$ $0.4\%$ (1) $1.4\%$ (4) $9.3\%$ (26) $47.9\%$ (130) $41.1\%$ (115) acquisition of habits for group coexistence.  18. I am convinced that the use of methods of cooperative work among the students in my future class work cooperatively will help them to see the social diversity in their own group.  20. If the students in my future class work cooperatively will help them to see the social diversity in their own group.  21. I think that participating in group work in the classroom will favour the building of the social diversity in their own group.  22. I am convinced that, although my future students work cooperatively, the group will not be care learn from everyone.  23. I think that participating in group work in the classroom will favour the building of the students in my future students work cooperatively, the group will not be convinced that, although my future students work cooperatively, the group will not be convinced that although my future students work cooperatively, the group will not be classroom will favour the building of the students work cooperatively and provinced that although my future students work cooperatively, the group will not be  | their capacity for expressing themselves both personally and as a group will improve.               |               |            |             |             |               |                  |
| 13. I am convinced that the use of methods of cooperative work among the students of my future class will not favour motivation towards learning.  14. Cl consider that the fact that the students in my future class work cooperatively, will favour motivation towards learning.  15. I think that if the students work as a group the ones with higher achievements will suffer.  15. I think that if the students work as a group the ones with higher achievements will suffer.  15. I think that if the students work as a group the ones with higher achievements will suffer.  16. I am convinced that participating in group discussions in the classroom helps students to put themselves in the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group occisisence.  18. I am convinced that the use of methods of cooperative work among the students in my future $4.3 \pm 0.7$ $0.4\%$ (1) $1.4\%$ (4) $9.3\%$ (26) $47.9\%$ (134) $41.1\%$ (115) acquisition of habits for group occisisence.  18. I am convinced that the use of methods of cooperative work among the students in my future and potentiate their socialisation.  19. I think the fact that the students in my future class work cooperatively will help them to see the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all of use an learn from everyone.  21. I think that participating in group work in the classroom will favour the building of the scalar form everyone.  22. I am convinced that, although my future students work cooperatively, the group will not be convinced that, although my future students work cooperatively, the group will not be convinced that, although my future students work cooperatively, it consider that it will make them more aware of the stakents work to cooperative work makes the students feel more aware of the stakents work work cooperatively, I consider that it wi   | 12. I believe that the fact that the students in my future class work cooperatively will enrich the | $4.3\pm0.7$   | 0.7% (2)   | 0.7% (2)    | 10.0% (28)  | 45.0% (126)   | 43.6% (122)      |
| class will not favour motivation towards learning.  14. CI consider that the fact that the students in my future class work cooperatively, will favour new channels of communication and enrich group discussions.  15. I think that if the students work as a group the ones with higher achievements will suffer.  15. I think that if the students work as a group the ones with higher achievements will suffer.  15. I think that if the students work as a group the ones with higher achievements will suffer.  15. I think that if the students work as a group discussions in the classroom helps students to put the one with the students of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group coxistence.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group coxistence.  18. I am convinced that the use of methods of cooperative work among the students in my future  19. I think the fact that the students in my future class work cooperatively will help them to see  19. I think the fact that the students in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I consider that it will make them more aware of the users because of it.  23. If my future students work cooperatively, I consider that it will make them more  | group through the contribution of new ideas.  |               |            |             |             |               |                  |
| 14. CI consider that the fact that the students in my future class work cooperatively, will favour new channels of communication and enrich group discussion.  15.1 think that if the students work as a group the ones with higher achievements will suffer.  15.1 think that if the students work as a group the ones with higher achievements will suffer.  15.1 think that if the students work as a group the ones with higher achievements will suffer.  15.1 think that if the students work as a group discussions in the classroom helps students to put $42 \pm 0.8$ $1.1\% (3)$ $2.9\% (8)$ $11.8\% (3)$ $45.7\% (128)$ $38.6\% (108)$ themselves in the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group coexistence.  18. I am convinced that the use of methods of cooperative work among the students in my future $43 \pm 0.7$ $0.4\% (1)$ $1.4\% (4)$ $9.3\% (26)$ $47.9\% (134)$ $41.1\% (115)$ class will favour and potentiate their socialisation.  19. I think the fact that the students in my future class work cooperatively will help them to see $43 \pm 0.7$ $0.4\% (1)$ $0.7\% (2)$ $7.5\% (21)$ $46.4\% (130)$ $45.0\% (126)$ the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future students work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperatively, I believe they will become aware that all of users in my future class work cooperati   | 13. I am convinced that the use of methods of cooperative work among the students of my future      | $2.4 \pm 1.2$ | 26.8% (75) | 36.8% (103) | 11.1% (31)  | 19.3% (54)    | 6.1% (17)        |
| new channels of communication and enrich group discussion.  15.1 think that if the students work as a group the ones with higher achievements will suffer.  15.2 $\pm 1.2$ $\pm 1.2$ $\pm 1.2$ $\pm 1.8$ $\pm 1.9$ $\pm 1$ |   |               |            |             |             |               |                  |
| 15.1 think that if the students work as a group the ones with higher achievements will suffer. 23 $\pm$ 12 31.8% (89) 31.1% (87) 17.5% (49) 15.4% (43) 43.% (12) 16.1 am convinced that participating in group discussions in the classroom helps students to put themselves in the others' places and better understand their reasons. 17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group coexistence. 18. I am convinced that the use of methods of cooperative work among the students in my future $43 \pm 0.7$ 0.4% (1) 2.1% (6) 8.9% (25) 46.4% (130) 42.1% (118) easaw ill favour and potentiate their socialisation. 19. I think the fact that the students in my future class work cooperatively will help them to see 43 ± 0.7 0.4% (1) 0.7% (2) 7.5% (21) 46.4% (130) 45.0% (126) the social diversity in their own group. 20. If the students in my future class work cooperatively, I believe they will become aware that all of use an learn from everyone. 21. I think that participating in group work in the classroom will favour the building of 4.2 ± 0.7 0.4% (1) 1.8% (5) 11.4% (32) 50.0% (140) 36.4% (102) knowledge in an interactive manner. 22. I am convinced that, although my future students work cooperatively, the group will not be crossed since class work has been more aware of 4.1 ± 0.8 0.7% (2) 3.9% (11) 13.9% (39) 48.6% (136) 32.9% (92) those classmates who have learning difficulties or personal problems 24.1 think that belonging to a group doing cooperative work makes the students feel more responsible for the tasks they have to do.   |   | $4.0 \pm 0.9$ | 2.1% (6)   | 3.6% (10)   | 14.3% (40)  | 48.2% (135)   | 31.8% (89)       |
| 16. I am convinced that participating in group discussions in the classroom helps students to put themselves in the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group coexistence.  18. I am convinced that the use of methods of cooperative work among the students in my future $4.3 \pm 0.7$ $0.4\%$ (1) $1.4\%$ (4) $9.3\%$ (26) $47.9\%$ (130) $42.1\%$ (118) class will favour and potentiate their socialisation.  19. I think the fact that the students in my future class work cooperatively will help them to see $4.3 \pm 0.7$ $0.4\%$ (1) $0.7\%$ (2) $7.5\%$ (21) $46.4\%$ (130) $45.0\%$ (126) the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all of use an learn from everyone.  21. I think that participating in group work in the classroom will favour the building of $4.2 \pm 0.7$ $0.4\%$ (1) $1.8\%$ (5) $11.4\%$ (3) $5.0\%$ (140) $36.4\%$ (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be more cohesive because of it.  23. If my future students work cooperative work makes the students feel more aware of $4.1 \pm 0.8$ $0.7\%$ (2) $3.9\%$ (11) $13.9\%$ (3) $48.6\%$ (136) $32.9\%$ (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more aware of for the tasks they have to do.  |   |               |            |             |             |               |                  |
| themselves in the others' places and better understand their reasons.  17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group coexistence.  18. I am convinced that the use of methods of cooperative work among the students in my future $4.3 \pm 0.7$ $0.4\%$ (1) $2.1\%$ (6) $8.9\%$ (25) $46.4\%$ (130) $42.1\%$ (118) class will favour and potentiate their socialisation.  19. I think the fact that the students in my future class work cooperatively will help them to see $4.3 \pm 0.7$ $0.4\%$ (1) $0.7\%$ (2) $7.5\%$ (21) $46.4\%$ (130) $45.0\%$ (126) the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all of use an learn from everyone.  21. I think that participating in group work in the classroom will favour the building of $4.2 \pm 0.7$ $0.4\%$ (1) $1.8\%$ (5) $11.4\%$ (32) $50.0\%$ (140) $36.4\%$ (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be considered that it will make them more aware of $4.1 \pm 0.8$ $0.7\%$ (2) $3.9\%$ (11) $13.9\%$ (39) $48.6\%$ (136) $32.9\%$ (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more $4.1 \pm 0.8$ $1.1\%$ (3) $3.6\%$ (10) $13.2\%$ (3) $50\%$ (140) $32.1\%$ (90) responsible for the tasks they have to do.   | 15. I think that if the students work as a group the ones with higher achievements will suffer.     | 2.3 ± 1.2     | 31.8% (89) | 31.1% (87)  | 17.5% (49)  | 15.4% (43)    | 4.3% (12)        |
| 17. Using methods of cooperative work in my future classroom, I consider that I will favour the acquisition of habits for group coexistence.  18. I am convinced that the use of methods of cooperative work among the students in my future  4.3 ± 0.7  0.4% (1)  2.1% (6)  8.9% (25)  4.64% (130)  42.1% (118)  42.1% (118)  43.50% (126)  44.50% (126)  45.0% (1  | 16. I am convinced that participating in group discussions in the classroom helps students to put   | $4.2\pm0.8$   | 1.1% (3)   | 2.9% (8)    | 11.8% (33)  | 45.7% (128)   | 38.6% (108)      |
| acquisition of habits for group coexistence.  18. I am convinced that the use of methods of cooperative work among the students in my future  18. I am convinced that the use of methods of cooperative work among the students in my future  19. I think the fact that the students in my future class work cooperatively will help them to see  19. I think the fact that the students in my future class work cooperatively will help them to see  19. I think the fact that the students in my future class work cooperatively, I believe they will become aware that all  19. I think the fact that the students in my future class work cooperatively, I believe they will become aware that all  19. I think the fact that the students in my future class work cooperatively, I believe they will become aware that all  19. I think that participating in group work in the classroom will favour the building of  10. I think that participating in group work in the classroom will favour the building of  10. I think that participating in group work in the classroom will favour the building of  10. I think that participating in group work in the classroom will favour the building of  10. I think that participating in group work in the classroom will favour the building of  10. I think that participating in group work in the classroom will favour the building of  10. I think that participating in group work in the classroom will favour the building of  10. I think that building that it will make them more aware of  10. I think that belonging to a group doing cooperatively, I consider that it will make them more aware of  11. I think that belonging to a group doing cooperative work makes the students feel more  11. I think that belonging to a group doing cooperative work makes the students feel more  12. I think that belonging to a group doing cooperative work makes the students feel more  13. I think that belonging to a group doing cooperative work makes the students feel more  14. I table that the table that the tusts they have to do.   | themselves in the others' places and better understand their reasons.                               |               |            |             |             |               |                  |
| 18. I am convinced that the use of methods of cooperative work among the students in my future class will favour and potentiate their socialisation.  19. I think the fact that the students in my future class work cooperatively will help them to see 13 ± 0.7 0.4% (1) 0.7% (2) 7.5% (21) 46.4% (130) 45.0% (126) the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all 4.4 ± 0.7 0.4% (1) 2.5% (7) 6.4% (18) 42.9% (120) 47.9% (134) of use can learn from everyone.  21. I think that participating in group work in the classroom will favour the building of 4.2 ± 0.7 0.4% (1) 1.8% (5) 11.4% (32) 50.0% (140) 36.4% (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be 2.7 ± 1.3 17.9% (50) 35.0% (98) 17.1% (48) 19.3% (54) 10.7% (30) more cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of 4.1 ± 0.8 0.7% (2) 3.9% (11) 13.9% (39) 48.6% (136) 32.9% (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more 4.1 ± 0.8 1.1% (3) 3.6% (10) 13.2% (37) 50% (140) 32.1% (90) responsible for the tasks they have to do.   | 17. Using methods of cooperative work in my future classroom, I consider that I will favour the     | $4.3\pm0.7$   | 0.4%(1)    | 1.4% (4)    | 9.3% (26)   | 47.9% (134)   | 41.1% (115)      |
| class will favour and potentiate their socialisation.  19. I think the fact that the students in my future class work cooperatively will help them to see  4.3 ± 0.7  0.4% (1)  0.7% (2)  7.5% (21)  4.64% (13)  4.5.0% (126)  4.7.9% (134)  4.7.9% (134)  4.7.9% (134)  7.5% (11)  4.7.9% (134)  4.7.9% (134)  4.7.9% (134)  4.7.9% (134)  4.7.9% (134)  4.7.9% (134)  4.7.9% (134)  4.7.9% (135)  4.7.9% (136)  4.7.9  | acquisition of habits for group coexistence.  |               |            |             |             |               |                  |
| 19. I think the fact that the students in my future class work cooperatively will bed mem to see the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all 4.4 ± 0.7 0.4% (1) 2.5% (7) 6.4% (18) 42.9% (120) 47.9% (134) of us can learn from everyone.  21. I think that participating in group work in the classroom will favour the building of 4.2 ± 0.7 0.4% (1) 1.8% (5) 11.4% (32) 50.0% (140) 36.4% (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be 2.7 ± 1.3 17.9% (50) 35.0% (98) 17.1% (48) 19.3% (54) 10.7% (30) more coolesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of 4.1 ± 0.8 0.7% (2) 3.9% (11) 13.9% (39) 48.6% (136) 32.9% (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more 4.1 ± 0.8 1.1% (3) 3.6% (10) 13.2% (37) 50% (140) 32.1% (90) responsible for the tasks they have to do.  |   | $4.3\pm0.7$   | 0.4%(1)    | 2.1% (6)    | 8.9% (25)   | 46.4% (130)   | 42.1% (118)      |
| the social diversity in their own group.  20. If the students in my future class work cooperatively, I believe they will become aware that all of use an learn from everyone.  21. I think that participating in group work in the classroom will favour the building of $4.2 \pm 0.7$ $0.4\%$ (1) $1.8\%$ (5) $11.4\%$ (32) $50.0\%$ (140) $36.4\%$ (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be $2.7 \pm 1.3$ $17.9\%$ (50) $35.0\%$ (98) $17.1\%$ (48) $19.3\%$ (54) $10.7\%$ (30) more cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of $4.1 \pm 0.8$ $0.7\%$ (2) $3.9\%$ (11) $13.9\%$ (39) $48.6\%$ (136) $32.9\%$ (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more $4.1 \pm 0.8$ $1.1\%$ (3) $3.6\%$ (10) $13.2\%$ (37) $50\%$ (140) $32.1\%$ (90) responsible for the tasks they have to do.  | class will favour and potentiate their socialisation.   |               |            |             |             |               |                  |
| 20. If the students in my future class work cooperatively, I believe they will become aware that all of use an learn from everyone.  21. I think that participating in group work in the classroom will favour the building of $4.2 \pm 0.7$ 0.4% (1) 1.8% (5) 11.4% (32) 50.0% (140) 36.4% (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be $2.7 \pm 1.3$ 17.9% (30) 35.0% (98) 17.1% (48) 19.3% (54) 10.7% (30) more cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of $4.1 \pm 0.8$ 0.7% (2) 3.9% (11) 13.9% (39) 48.6% (136) 32.9% (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more $4.1 \pm 0.8$ 1.1% (3) 3.6% (10) 13.2% (37) 50% (140) 32.1% (90) responsible for the tasks they have to do.  |   | $4.3 \pm 0.7$ | 0.4%(1)    | 0.7% (2)    | 7.5% (21)   | 46.4% (130)   | 45.0% (126)      |
| of us can learn from everyone.  21. I think that participating in group work in the classroom will favour the building of 42 $\pm$ 0.7 0.4% (1) 1.8% (5) 11.4% (32) 50.0% (140) 36.4% (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be 2.7 $\pm$ 1.3 17.9% (50) 35.0% (98) 17.1% (48) 19.3% (54) 10.7% (30) more cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of 4.1 $\pm$ 0.8 0.7% (2) 3.9% (11) 13.9% (39) 48.6% (136) 32.9% (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more 4.1 $\pm$ 0.8 1.1% (3) 3.6% (10) 13.2% (37) 50% (140) 32.1% (90) responsible for the tasks they have to do.  |   |               |            |             |             |               |                  |
| 21. I think that participating in group work in the classroom will favour the building of $4.2 \pm 0.7$ $0.4\%$ (10 $1.8\%$ (5) $11.4\%$ (32) $50.0\%$ (140) $36.4\%$ (102) knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be more cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of $4.1 \pm 0.8$ $0.7\%$ (2) $3.9\%$ (11) $13.9\%$ (39) $48.6\%$ (136) $32.9\%$ (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more $4.1 \pm 0.8$ $1.1\%$ (3) $3.6\%$ (10) $13.2\%$ (37) $50\%$ (140) $32.1\%$ (90) responsible for the tasks they have to do.   |   | $4.4 \pm 0.7$ | 0.4%(1)    | 2.5% (7)    | 6.4% (18)   | 42.9% (120)   | 47.9% (134)      |
| knowledge in an interactive manner.  22. I am convinced that, although my future students work cooperatively, the group will not be  2.7 $\pm$ 1.3  17.9% (\$0\$)  35.0% (\$9\$)  17.1% (48)  19.3% (\$4\$)  10.7% (30)  more cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of  4.1 $\pm$ 0.8  0.7% (2)  3.9% (11)  13.9% (39)  48.6% (136)  32.9% (92)  those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more  4.1 $\pm$ 0.8  1.1% (3)  3.6% (10)  13.2% (37)  50% (140)  32.1% (90)  responsible for the tasks they have to do.  | •   |               |            |             |             |               |                  |
| 22. I am convinced that, although my future students work cooperatively, the group will not be nore cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more that ske they have to do.   |   | $4.2 \pm 0.7$ | 0.4%(1)    | 1.8% (5)    | 11.4% (32)  | 50.0% (140)   | 36.4% (102)      |
| more cohesive because of it.  23. If my future students work cooperatively, I consider that it will make them more aware of 4.1 $\pm$ 0.8 0.7% (2) 3.9% (11) 13.9% (39) 48.6% (136) 32.9% (92) those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more 4.1 $\pm$ 0.8 1.1% (3) 3.6% (10) 13.2% (37) 50% (140) 32.1% (90) responsible for the tasks they have to do.   | -   |               |            |             |             |               |                  |
| 23. If my future students work cooperatively, I consider that it will make them more aware of those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more 4.1 $\pm$ 0.8 1.1% (3) 3.6% (10) 13.2% (37) 50% (140) 32.1% (90) responsible for the tasks they have to do.  |   | 2.7 ± 1.3     | 17.9% (50) | 35.0% (98)  | 17.1% (48)  | 19.3% (54)    | 10.7% (30)       |
| those classmates who have learning difficulties or personal problems  24. I think that belonging to a group doing cooperative work makes the students feel more  4.1 ± 0.8  1.1% (3)  3.6% (10)  13.2% (37)  50% (140)  32.1% (90)  responsible for the tasks they have to do.   |   |               |            |             |             |               |                  |
| 24. I think that belonging to a group doing cooperative work makes the students feel more 4.1 ± 0.8 1.1% (3) 3.6% (10) 13.2% (37) 50% (140) 32.1% (90) responsible for the tasks they have to do.  |   | $4.1 \pm 0.8$ | 0.7% (2)   | 3.9% (11)   | 13.9% (39)  | 48.6% (136)   | 32.9% (92)       |
| responsible for the tasks they have to do.   |   |               |            |             |             |               |                  |
|  |   | $4.1 \pm 0.8$ | 1.1% (3)   | 3.6% (10)   | 13.2% (37)  | 50% (140)     | 32.1% (90)       |
| 25.1 believe that working cooperatively, my students stimulate their sense of co-responsibility. $4.1 \pm 0.7$ $0.4\%$ (1) $2.5\%$ (7) $11.4\%$ (32) $53.6\%$ (150) $32.1\%$ (90)  |   | 41.05         | 0.407.713  | 2.50/ /5:   | 11.40/ (27) | 52 (0) (15*** | 22.10/ (00)      |
|  | 25. I believe that working cooperatively, my students stimulate their sense of co-responsibility.   | 4.1 ± 0.7     | 0.4% (1)   | 2.5% (7)    | 11.4% (32)  | 55.6% (150)   | 32.1% (90)       |

SD = standard deviation. The data from the Likert scale are shown in percentages and frequencies.

formance improves if" obtained very high percentages in the options "I agree" and "I strongly agree." Regarding the blocks: "With respect to the planning of group work by the lecturers at my university, I think that ..." "The constitution of the group should be...," and "The operating norms of the group," very high percentages were recorded in the options "Indifferent" and "I agree" in most of the items, except item 24, which obtained very high percentages in the options "I strongly disagree" and "I disagree." Regarding item 23, which refers to the suitable number of participants per group, the results show that groups of four (48.9% of participants), five (20.4% of participants) and 3 (9.6% of participants) were considered the most suitable.

The last three questions on the ACOES questionnaire are open questions on strengths, weaknesses and suggestions regarding cooperative learning. Item 50 reads "Point out some STRENGTHS of group work that have not been included in the previous items." This item was answered by 107 participants (38.2% of the total). Many of them affirmed that it is a methodology that "motivates" and foments "empathy," "leadership," "responsibility," "companionship," "cohesion," respect," and "debate." Similarly, many of the participants stated that it can help to "manage emotions," "work with different people," "get to know classmates better," "see different points of view," and "understand one's own classmates." Moreover, a large number of the participants reinforced the idea that CL "helps to develop social abilities." Furthermore, the participants consider that CL helps "learning" and that it "can become meaningful."

With item 51, "Point out some WEAKNESSES of group work that have not been included in previous items," 103 participants (36% of the total) answered this question. Several participants affirmed that there are "difficulties to implement it," "many aspects to take into account," "lack of knowledge and difficulty in implementing it," and that "the mere fact of carrying out an Aronson puzzle, does not ensure that there is actual cooperation." Similarly, the participants agreed that "not all the students work equally hard" assessing that "not all the members of the group are equally committed" and therefore "the roles should be changed every so often to avoid the students becoming complacent?"

Table 5 Results Obtained by all the Participants (n = 280) in the ACOES (Analysis of Cooperation in Higher Education) Questionnaire

| tem  | $Mean \pm SD$                  | I strongly disagree  | I disagree             | Indifferent             | I agree                    | I strongly agr         |
|--|--------------------------------|----------------------|------------------------|-------------------------|----------------------------|------------------------|
| CONSIDER THAT GROUP WORK IS:   |                                |                      |                        |                         |                            |                        |
| . A good method for developing my social competencies: (reasoning, dialogue, listening ability,  | $4.4\pm0.7$                    | 0.4%(1)              | 1.1% (3)               | 7.5% (21)               | 41.8% (117)                | 49.3% (138)            |
| lebating skills, respect for contrary opinions)  2. An opportunity to get to know my companions better   | 4.4 ± 0.7                      | 0.4%(1)              | 0.7% (2)               | 8.9% (25)               | 39.6% (111)                | 50.4% (141)            |
| A way of getting a better understanding of knowledge   | 4.4 ± 0.7<br>4.3 ± 0.7         | 0.4%(1)              | 1.1% (3)               | 12.1% (34)              | 42.5% (111)                | 43.9% (123)            |
| A way of getting a better understanding of knowledge     A way of sharing the total volume of work   | 4.2 ± 0.9                      | 1.1% (3)             | 4.3% (12)              | 10.4% (29)              | 43.2% (121)                | 41.1% (115)            |
|  |                                |                      |                        |                         |                            |                        |
| 5. A way to facilitate preparation for exams   | $4.0\pm0.9$                    | 2.1% (6)             | 3.2% (9)               | 21.1% (59)              | 42.9% (120)                | 30.7% (86)             |
| PERSONALLY, GROUP WORK HELPS ME TO:  |                                |                      |                        |                         |                            |                        |
| 5. Present and defend my ideas and knowledge in front of other people  | $4.2 \pm 0.8$                  | 0.7% (2)             | 2.9% (8)               | 10.4% (29)              | 45.7% (128)                | 40.4% (113)            |
| 7. Feel an active part of my own learning process  | $4.2 \pm 0.8$                  | 1.1% (3)             | 2.1% (6)               | 11.8% (33)              | 45.7% (128)                | 39.3% (110)            |
| 3. Understand the knowledge and ideas of my companions   | $4.3 \pm 0.7$                  | 0.7% (2)             | 0.7% (2)               | 8.9% (25)               | 42.1% (118)                | 47.5% (133)            |
| D. Understand the importance of coordinated work in my professional future as a teacher  | $4.3\pm0.8$                    | 0.4%(1)              | 3.2% (9)               | 11.4% (32)              | 40.0% (112)                | 45.0% (112)            |
| 10. Reach agreements when faced with different opinions  | $4.3\pm0.8$                    | 0.7% (2)             | 1.4% (4)               | 8.9% (25)               | 41.1% (115)                | 47.9% (134)            |
| 11. Look for information, investigate and learn autonomously   | $4.0\pm0.9$                    | 1.1% (3)             | 5.7% (16)              | 16.8% (47)              | 41.1% (115)                | 35.4% (99)             |
| ON THE PLANNING OF MY UNIVERSITY LECTURERS OF GROUP WORK, I THINK THAT   | AT:                            |                      |                        |                         |                            |                        |
| 2. The amount of group work requested is suitable for the teaching load of the course  | $3,5\pm1,1$                    | 5,4% (15)            | 16,1% (45)             | 18,9% (53)              | 44,6% (125)                | 15,0% (42)             |
| 3. The level of difficulty of the group work is suitable for our training  | $3,7\pm0,9$                    | 1,8% (5)             | 7,5% (21)              | 22,5% (63)              | 55,4% (155)                | 12,9% (36)             |
| 4. There is coordination among the group work tasks requested in the different subjects  | $3,1\pm1,2$                    | 10,4% (29)           | 21,8% (61)             | 23,9% (67)              | 32,5% (91)                 | 11,4% (32)             |
| 15. Attendance at practical classes resolves the doubts that arise when doing group work   | $3,7\pm1,1$                    | 5,4% (15)            | 7,9% (22)              | 20,4% (57)              | 43,2% (121)                | 23,2% (65)             |
| THE CONSTITUTION OF THE GROUP SHOULD BE:   |                                |                      |                        |                         |                            |                        |
| 16. Decided by the students applying criteria based on friendship  | $3.1 \pm 1.1$                  | 7.9% (22)            | 23.6% (66)             | 27.5% (77)              | 30.4% (85)                 | 10.7% (30              |
| 17. Decided by the students applying academic criteria   | 3.2 ± 1.2                      | 8.2% (23)            | 20.7% (58)             | 23.2% (65)              | 34.3% (96)                 | 13.6% (38              |
| 18. Decided by the teachers applying academic criteria   | 3.0 ± 1.2                      | 11.8% (33)           | 24.3% (68)             | 24.6% (69)              | 27.1% (76)                 | 12.1% (34              |
| 19. Made up of a diversity of group members (age, sex, training, experience)   | 3.9 ± 1.0                      | 2.5% (7)             | 5.7% (16)              | 16.8% (47)              | 45.0% (126)                | 30.0% (84              |
| 20. Stable during the subject, term, year  | 3.6 ± 1.2                      | 5.0% (14)            | 14.6% (41)             | 18.2% (51)              | 37.5% (105)                | 24.6% (69              |
| 21. Modified for the development of different activities in the same subject   | 3.6 ± 1.1                      | 5.7% (16)            | 12.5% (35)             | 20.4% (57)              | 43.6% (122)                | 17.9% (50              |
| 22. Decided incorporating the designation of a group coordinator   | 3.7 ± 1.0                      | 2.9% (8)             | 7.1% (20)              | 26.8% (75)              | 40.0% (112)                | 23.2% (65)             |
|  | 6.0 ± 4.7                      | 2.970 (8)            | 7.176 (20)             | 20.6% (73)              | 40.0% (112)                | 23.276 (03)            |
| 23. Decided with a minimum of participants (indicate in the blank square the number you consider most appropriate) OPERATING NORMS OF THE GROUP:                                   | 6.0 ± 4.7                      | -                    | -                      | -                       | -                          | -                      |
| 24. There should not be any norms  | $1.9 \pm 1.1$                  | 43.6% (122)          | 32.1% (90)             | 13.9% (39)              | 6.8% (19)                  | 3.6% (10)              |
| 25. There should be norms, but established by the students   | $3.7\pm1.0$                    | 2.1% (6)             | 9.6% (27)              | 23.9% (67)              | 45.7% (128)                | 18.6% (52)             |
| 26. There should be norms, but established by the teachers   | $3.0\pm1.1$                    | 10.4% (29)           | 23.6% (66)             | 28.9% (81)              | 31.4% (88)                 | 5.7% (16)              |
| 27. They should be negotiated between the teachers and the students  | $3.9\pm1.1$                    | 5.0% (14)            | 7.1%/(20)              | 17.5% (49)              | 38.2% (107)                | 32.1% (90)             |
| 28. They should be presented in a document which defines the responsibilities assumed by the   | $3.8 \pm 0.9$                  | 2.9% (8)             | 4.3% (12)              | 23.9% (67)              | 46.1% (129)                | 22.9% (64              |
| group  |                                |                      |                        |                         |                            |                        |
| 29. They should define the roles of each of the individuals that constitute the group  | $3.9 \pm 0.9$                  | 1.1% (3)             | 5.0% (14)              | 23.6% (66)              | 48.2% (135)                | 22.1% (62              |
| They should include the consequences for the participants of not fulfilling their commitments.   | 3.9 ± 0.9                      | 1.8% (5)             | 5.7% (16)              | 19.6% (55)              | 47.1% (132)                | 25.7% (72              |
| 81. They should specify the timetable and place for the meetings   |                                | 3.6% (10)            | (10)                   | 22.5% (63)              | 44.3% (124)                | 23.2% (65              |
| They should include the obligation to attend the meetings  ISUALLY, WHEN DOING GROUP WORK:   | $3.8 \pm 1.0$                  | 2.9% (8)             | 6.8% (19)              | 20.7% (58)              | 44.6% (125)                | 25.0% (70              |
|  | 40.00                          | 1.407.740            | C 10/ (17)             | 0.00/ (0.5)             | 55 TW (150)                | 27.00/ /70             |
| We meet at the beginning to plan the different steps which we have to take     We consult the basic documentation provided by the teacher  | $4.0 \pm 0.9$<br>$4.1 \pm 0.8$ | 1.4% (4)<br>0.7% (2) | 6.1% (17)<br>3.2% (9)  | 8.9% (25)<br>11.8% (33) | 55.7% (156)<br>58.2% (163) | 27.9% (78<br>26.1% (73 |
| 55. We carry out a search for information from different sources (Internet, library,)  | 4.1 ± 0.8<br>4.2 ± 0.7         | 0.7% (2)             | 1.1% (3)               | 7.9% (22)               | 55.4% (155)                | 35.4% (99              |
|  | 4.2 ± 0.7                      | 0.4%(1)              | 3.6% (10)              | 6.8% (19)               | 53.6% (150)                | 35.4% (99              |
| 16. We make consensual decisions, to guarantee the general coherence of the group work 87. During the development of the work we carry out "briefings" so that all the group knows | $4.2 \pm 0.8$<br>$4.1 \pm 0.8$ | 0.7% (2)             | 3.6% (10)<br>4.3% (12) | 6.8% (19)<br>11.4% (32) | 51.4% (144)                | 31.8% (89              |
| 67. During the development of the work we carry out "briefings" so that all the group knows what the others are doing and we have a good idea of how the activity is progressing   | 4.1 ± 0.8                      | 1.1% (5)             | 4.5% (12)              | 11.4% (32)              | 31.4% (144)                | 31.8% (89              |
| 88. All the members of the group participate equally   | $3.8\pm1.1$                    | 4.3% (12)            | 12.9% (36)             | 15.0% (42)              | 38.6% (108)                | 29.3% (82              |
| 39. We assess and make proposals for improvement   | $3.8\pm1.0$                    | 2.5% (7)             | 11.1% (31)             | 17.9% (50)              | 40.0% (112)                | 28.6% (80              |
| GROUP PERFORMANCE IMPROVES IF:   |                                |                      |                        |                         |                            |                        |
| 40. The teachers facilitate clear guidelines for the group activities to be developed  | $4.3 \pm 0.7$                  | 0.7% (2)             | 2.5% (7)               | 6.4% (18)               | 51.4% (144)                | 38.9% (109             |
|  |                                |                      |                        |                         |                            |                        |

With reference to the last questions, "Point out some SUGGESTIONS" to improve cooperative methodology, it was answered by 61 participants (21.8% of the total). The participants think it convenient to change the groups more often so that "all the students interact with one another." They also suggest "working in different groups during the year and if a group works well to maintain it, and if not to modify it." Moreover, they think it is convenient "to establish very clearly defined guidelines," "that are applied from early childhood," "to leave time at the end of the class so that the participants can meet together," and to "give the students the possibility to choose the topic to be used, within the available possibilities." Another consideration contributed by a participant is worthy of being highlighted: "Nowadays it has not been possible to extract 100% of the benefits of working following the cooperative methodology." Lastly some participants consider that "we should try to transmit the values of working cooperatively from a young age, to be able to grow up with the values that this way of working offers, and which are very interesting for our growth as a society."

The men obtained higher values than the women in item 24 (p < 0.05, PS = 0.60, medium,  $\chi^2$ = 13.0, p < 0.01). In contrast, the women obtained higher values than the men in items 1-11, 17, 20, 30, 33-36, and 40 (p < 0.05, PS = 0.36 – 0.44,  $\chi^2$  = 9.7 – 23.6, p < 0.01). The women also obtained higher values than the men in items 31, 32, and 48 (p < 0.05, PS = 0.42 – 0.43), although no significant differences were observed in the  $\chi^2$  test (p > 0.05). However, no differences between the women's and men's means were observed in items 18, 37, 38, 41, and 42, but significant differences were obtained in the  $\chi^2$  test ( $\chi^2$  = 9.6 – 13.5, p < 0.05).

With respect to the differences according to level of studies (graduate vs. post-graduate), the post-graduate students recorded higher values in items 1, 2, 3, 22, 23, 29, and 41 (p < 0.05, PS = 0.32 – 0.37) although no significant differences were observed in the  $\chi^2$  test (p > 0.05). In contrast, no differences were observed between the means of graduate and post-graduate students in items 7, 8, 17, and 28, but significant differences were revealed in the  $\chi^2$  test ( $\chi^2 = 10.9-12.0$ , p < 0.05).

#### Discussion

The main objectives of this research were, in the first place, to analyse the internal consistency of several questionnaires on inclusion and CL applied to university students and, in the second place, to know the perception and knowledge of inclusion and CL of university students who are following studies related to PE, PA, or sport, according to the sex and level of studies (graduate vs. post-graduate) of the participants. Although there are studies on the perception and knowledge that university students have of inclusion and CL (Abellán et al., 2019; Block et al., 2021; Hortigüela-Alcalá et al., 2016; Pegalajar & Colmenero, 2013; Prieto et al., 2016; Sánchez-Molina et al., 2021), very few analyse if there are differences according to sex and level of studies. The results of this study show that the questionnaires used have excellent internal consistency and that the total internal consistency of all of the questionnaires is even better, Differences were observed according to sex in the EANEE (items 5, 8, 9, 10, 12, 14, 15-21, and 23), CEFI-R (items 1, 4, 9, 10, and 14), CAPIC (items 1-21, 23-25) and ACOES (items 1-11, 17,18, 20, 24, 30-38, 40-42, and 48) questionnaires. Moreover, differences were observed according to level of studies in the CEFI-R (items 4, 10, 11, 13-16), CAPIC (items 5, 7, and 24) and ACOES (items 1, 2, 3, 7, 8, 17, 22, 23, 28, 29, and 41) questionnaires. Therefore, it can be observed that both sex and level of studies can influence the perception and knowledge of inclusion and CL in university students of PE, PA and sport.

It has been stated that it is important to know the internal consistency of the questionnaires used in research, in order mainly to assess the reliability of the measurement instruments (Cascaes da Silva et al., 2015). The results of the internal consistency of the four questionnaires used in the present study and administered to university students of PE, PA, and sport were excellent, and moreover showed excellent internal consistency in the items of all the questionnaires together. Equally, similar results have been obtained in the validation of the questionnaires in comparable studies that have analysed their internal consistency (Abellán & Sáez-Gallego, 2020; García et al., 2012; González-Gil et al., 2017; Traver & García, 2007; Triviño-Amigo et al., 2022a; Tárraga-Mínguez et al., 2022). However, the results of the present study showed that in some specific blocks of the EANEE, ACOES, and especially the CAPIC questionnaire, the inter-

nal consistency was somewhat lower than the internal consistency results of the all the items in each questionnaire. Another previous investigation also found similar results of lower internal consistency to the ones obtained in the present study in some of the blocks in the CAPIC questionnaire. (Traver & García, 2007). Likewise, in the validation of the ACOES questionnaire, as in the present study, a low value of internal consistency was found in block 4, "criteria for organising the groups." Although the internal consistency was not good in some blocks of some questionnaires, possibly due to the fact that in these blocks the different items deal with open topics, the obtention of excellent values of internal consistency in all the items of each questionnaire and in the totality of the items of all the quetionnaires seems to evidence that the questionnaires can be used for university students studying PE, PA, and sport.

As well as determining the internal consistency of questionnaires, previous studies have indicated the importance of knowing the conception and knowledge of university students regarding inclusion in education (Abellán et al., 2019; Aldabas, 2020; Hortigüela-Alcalá et al., 2016; Tárraga et al., 2013), due to the fact that once they have finished their university studies, teachers have to be prepared to teach in heterogeneous classrooms that include students with and without a disability (Akalin et al., 2014). It has been said that teachers with specific training in inclusive PE obtain higher values in selfefficacy regarding inclusion (Abellán et al., 2019; Grassi-Roig et al., 2022; Hutzler & Daniel-Shama, 2017; Reina et al., 2016). However, the initial training of teachers related to inclusion is scarce (García-Barrera, 2017) and can generate rejection (Mosia, 2014). The results of the present study show that the participants had a good perception and knowledge of educational inclusion. The results obtained are similar to previous studies in university students of Infant, Primary and Secondary education, and in teachers of Infant, Primary and Secondary education (Abellán & Sáez-Gallego, 2020; González-Gil et al., 2017; Tárraga-Mínguez et al., 2022; Triviño-Amigo et al., 2022a). These good results are possibly due to the fact that particularly in the studies for Infant, Primary and Secondary Education, as well as studies related to PE, PA and sport, subjects are included that specifically deal with inclusion in education. However, one of the main novelties of the present study is the analysis of the differences

in the knowledge and perception of inclusion according to sex and level of studies, aspects that have hardly been investigated to date. The present study revealed significant differences according to sex in the EANEE questionnaire (significant differences in 14 items) and in the CEFI-R questionnaire (significant differences in 5 items) in which the women obtained higher results. These differences in the knowledge and perception of inclusion according to sex may be due to the different academic self-concept possessed by women and men (Chacón-Cuberos et al., 2020). Bearing in mind that academic selfconcept has a positive influence on the improvement in performance, on the increase in motivation and on the increase in academic selfconcept (Wang & Yu, 2023), it has been indicated that men have a higher general, emotional and physical self-concept; however, women obtain higher values in academic self-concept (Chacón-Cuberos et al., 2020). Similarly, differences were observed according to the level of studies in the CEFI-R questionnaire (significant differences in 7 items) with the post-graduate students being those with the best values. As was affirmed in a previous study, the study plan which the participants have followed or even if they have or have not had specific training in inclusion (Abellán et al., 2019; Grassi-Roig et al., 2022) can determine their knowledge and perception of inclusion. Possibly post-graduate studies can help improve the perception and knowledge of inclusion because the students study specific subjects in greater depth and extend their knowledge of inclusion. Another of the possible reasons for the differences found could be that the postgraduate students have been able to have previous professional experiences or ones parallel to their post-graduate studies and thus, as stated by Alshehri (2023) experiences influence the attitude towards inclusion. However, in most graduate and post-graduate training it seems that few subjects are taught that are related to attention to diversity (Rodríguez et al., 2017; Valencia-Peris & Mínguez-Alfaro, 2018; Valencia-Peris et al., 2020), so that it could be necessary to extend this specific training.

Previous studies have also suggested the importance of knowing the perception and knowledge that university students have of CL (Muñoz et al., 2020; Nguyen et al., 2021; Rodríguez et al., 2017; Sánchez-Molina et al., 2021), as its adequate use can favour the building of an inclusive education, and equally, so that all the students,

with and without a disability, have the possibility to learn through PE (Bermejo et al., 2022; Páez et al., 2018; Velázquez et al., 2014). The results of the present study show that the participants had a good perception of CL, in spite of not feeling sufficiently trained to implement it. The results obtained are similar to those revealed in recent studies carried out on students of Infant, Primary and Secondary Education, PE, Medicine, and PE teachers (Feria-Madueño et al., 2017; Fernández & Espada, 2016; Matzumura-Kasano et al., 2019; Vicent & Aparicio-Flores, 2019) and may be due to the fact that the participants had never experienced CL, bearing in mind that an experience in initial training favours and improves knowledge and selfefficacy for using this pedagogical model (Völlinger & Supanc, 2020). As in the section on inclusion, one of the main novelties of this study is the analysis of the differences in the knowledge and perception of CL according to sex and level of studies, aspects that have hardly been studied to date. The results obtained in the present study show significant differences according to sex in the CAPIC questionnaire (significant differences in 24 items), with the men obtaining higher scores, and in the ACOES questionnaire (significant differences in 28) items) with the women obtaining higher values. These results may be due to the physical self-concept and motivation of the students in the PE classes, bearing in mind that the lack of motivation and participation is related to a lower physical self-concept (Taylor et al., 2014). It is important to highlight that CL is a methodology that favours the participation of all the students as well as motivation towards PE (Bores-García et al., 2021; Fernández-Río, 2017). Therefore, it can be sensed that the students with less motivation and a worse physical self-concept prefer CL as a methodology as it helps all the students to participate and feel more motivated. Moreover, significant differences were observed according to the level of studies (graduate vs. post-graduate) in the CAPIC questionnaire (significant differences in 3 items) and the ACOES questionnaire (significant differences in 11 items) with the post-graduate students the ones scoring the highest values. These results coincide with those obtained by Pegalajar & Colmenero (2013), as they observed that the older participants, given that they have received more training, perceive CL in a more positive way. Thus, it seems that both age and higher training can improve the perception and knowledge of university students regarding CL.

#### **Conclusions**

The results of the study show that, in spite of the fact that in some specific blocks of some questionnaires the internal consistency was somewhat lower, excellent values for internal consistency were obtained in all the questionnaires and the set of items of all the questionnaires, which seems to evidence that the questionnaires can be used for university students studying topics related to PE, PA or sport. Moreover, good values were obtained for perception and knowledge of inclusion and CL in students of PE, PA, and sport. However, differences were found according to sex and level of studies. The women affirmed that they had a better perception than the men in the EANEE, CEFI-R and ACOES questionnaires. Equally, the post-graduate students showed a better perception of inclusion and CL than the degree students. From the results obtained, both sex and level of studies can influence the perception and knowledge of inclusion and CL in university students of PE, PA, and sport.

### References

- Abellán, J., & Sáez-Gallego, N. M. (2020). Opinions relatives to inclusion showed by primay and early school pre-service teachers. *Revista Complutense de Educación*, 31(2), 209–229. https://doi.org/10.5209/rced.62090
- Abellán, J., Sáez-Gallego, N. M., Reina, R., Ferriz, R., & Navarro-Patón, R. (2019). Perception of self-eficacy towards inclusion in pre-service teachers of physical education. *Journal of Sport Psichology* 28(1), 143–156.
- Akalin, S., Demir, S., Sucuoglu, B., Bakkaloglu, H., & Iscen, F. (2014). The needs of inclusive preschool teachers about inclusive practices. *Eurasian Journal of Educational Research*, *54*, 39–60. https://doi.org/10.14689/ejer.2014.54.3
- Aldabas, R. (2020). Special education teachers' perceptions of their preparedness to teach students with severe disabilities in inclusive classrooms: A Saudi Arabian perspective. *Sage Open*, 10(3), 1–14. https://doi.org/10.1177/2158244020950657

- Alshehri, Y. D. (2023). Teachers' attitudes about including students with autism in general education classrooms in saudi arabia: The callenge and prospects of teachers attitudes. *Journal of Research in Curriculum, Instruction and Educational Technology*, 9(1), 55–102. https://doi.org/10.21608/jrciet.2023.285871
- Antonak, R. F., & Larrive, B. (1995). Psychometric analysis and revision of the opinions relative to mainstreaming scale. *Exceptional Children*, 62(2), 139–149.
- Avramidis, E., Bayliss, P., & Burden, R. (2000). A survey into mainstream teachers' attitudes towards the inclusion of children with special educational needs in the ordinary school in one local education authority. *Educational Psychology*, *20*(2), 191–211. https://doi.org/10.1080/713663717
- Bermejo, N., González, L., & Urías, G. (2022). Cooperative learning activity system for educational inclusion of a student with visual impairment. In *IV International Congress of the National University of Education*, 207–216. http://repositorio.unae.edu.ec/handle/56000/2580
- Block, M. E., Haegele, J., Kelly, L., & Obrusnikova, I. (2021). Exploring future research in adapted physical education. *Research Quarterly for Exercise and Sport*, 92(3), 429–442. https://doi.org/10.1080/0 2701367.2020.1741500
- Bores-García, D., Hortigüela-Alcalá, D., Fernandez-Rio, F. J., González-Calvo, G., & Barba-Martín, R. (2021). Research on cooperative learning in physical education: Systematic review of the last five years. *Research Quarterly for Exercise and Sport*, 92(1), 146–155. https://doi.org/10.1080/02701367.2020.1719276
- Cascaes da Silva, F., Gonçalves, E., Valdivia Arancibia, B. A., Bento, G. G., Silva Castro, T. L. D., Soleman Hernandez, S. S., & Silva, R. D. (2015). Estimators of internal consistency in health research: The use of the alpha coefficient. *Revista Peruana de Medicina Experimental y Salud Pública*, 32(1), 129–138. https://doi.org/10.17843/rpmesp.2015.321.1585
- Chacón-Cuberos, R., Ramírez-Granizo, I. A., Ubago-Jiménez, J. L., & Castro-Sánchez, M. (2020). Multidimensional self-concept according to social and academic factors in university students. *Journal of Sport and Health Research*, 12(2), 107–116.
- Echeita, G., Verdugo, M. A., Sandoval, M., Simón, C., López, M., González-Gil, F., & Calvo, M. I. (2008). The opinion of FEAPS on the process of inclusive education. *Spanish Journal of Disability*, 39(4), 26–50.

- Erceg-Hurn, D. M., & Mirosevich, V. M. (2008). Modern robust statistical methods: An easy way to maximize the accuracy and power of your research. *American Psychologist*, *63*(7), 591–601. https://doi.org/10.1037/0003-066X.63.7.591
- Falla, D., Gómez, C. A., & Gil del Pino, C. (2022). Engagement in teacher training as a driver of inclusive attitudes. *Educación XX1*, 25(1), 251–271. https://doi.org/10.5944/educXX1.30369
- Feria-Madueño, A., Grimaldi-Puyana, M., Sánchez-Oliver, A. J., & Alcaraz-Rodríguez, V. (2017). Cooperative learning and perception in future teachers of physical education. *Trances*, 9(1), 189–198.
- Fernández-Río, J. (2014). Aportaciones del modelo de responsabilidad personal y social al aprendizaje cooperativo. In *Actas del IX Congreso Internacional de Actividades Físicas Cooperativas*, 18–32.
- Fernández-Río, J. (2017). The Cooperative Learning Cycle: A guide to effectively implemente cooperative learning in physical education. *Retos: Nuevas tendencias en educación física, deporte y recreación*, (32), 264–269. https://doi.org/10.47197/retos. v0i32.51298
- Fernández, J. M., Jiménez, F., Navarro, V., & Sánchez, C. R. (2019). Changes in self-concept of students with and without motor disabilities after an inclusive teaching intervention in Physical Education. *Retos: Nuevas tendencias en educación física, deporte y recreación*, (36), 138–145. https://doi.org/10.47197/retos. v36i36.67717
- Fernández, M., & Espada, M. (2016). Physical education teachers' attitude toward cooperative learning. *Movimiento*, 22(3), 861–876. https://doi.org/10.22456/1982-8918.61620
- García-Barrera, A. (2017). Special educational needs: A conceptual burden for inclusive education in Spain. *Ensaio: Avaliação e Políticas Públicas em Educação*, *25*, 721–742. https://doi.org/10.1590/S0104-40362017002500809
- García, M. D. M., González, I., & Mérida, R. (2012). Validation of evaluation questionnaire ACWHE, analysis of cooperative work in higher education. *Journal of Educational Research*, *30*(1), 87–109. https://doi.org/10.6018/rie.30.1.114091
- González-Gil, F., Martín-Pastor, E., & Orgaz Baz, B. (2017). ¿Are future teachers trained for inclusion? Validation of an assessment questionarie. *Aula Abierta*, 46, 33–40. https://doi.org/10.17811/rifie.46.2017.

- González-Gil, F., Martín-Pastor, E., Orgaz Baz, B., & Poy Castro, R. (2019). Development and validation of a questionnaire to evaluate teacher training for inclusion: The CEFI-R. *Aula Abierta*, *48*(2), 229–238. https://doi.org/10.17811/rifie.48.2.2019.229-238
- Grassi-Roig, M., Pérez-Tejero, J., & Coterón, J. (2022). Effects of an inclusive Physical Education workshop on teachers' self-efficacy. *Cultura, Ciencia y Deporte*, *17*(51), 5–13. https://doi. org/10.12800/ccd.v17i51.1649
- Grissom, R. J. (1994). Probability of the superior outcome of one treatment over another. *Journal of Applied Psychology*, 79(2), 314–316. https://doi.org/10.1037/0021-9010.79.2.314
- Herrero-González, D., Manrique, J. C., & López-Pastor, V. M. (2021). Incidence of pre-service and in-service teacher education in the application of formative and shared assessment in physical education. *Retos: Nuevas Tendencias en Educación Física, Deporte y Recreación*, (41), 533–543. https://doi.org/10.47197/retos. v0i41.86090
- Hortigüela-Alcalá, D., Perez-Pueyo, A., & Fernández-Río, F. J. (2016). Influence of student experiences in developing skills as future teachers. *Contextos Educativos-Revista de Educación* (19). https://doi.org/10.18172/con.2742
- Hutzler, Y., & Daniel-Shama, E. (2017). Attitudes and self-efficacy of Arabic-speaking physical education teachers in Israel toward including children with disabilities. *International Journal of Social Science Studies*, 5, 28–42. https://doi.org/10.11114/ijsss. v5i10.2668
- Jiménez-Díaz, J., & Salicetti-Fonseca, A. (2022). Cooperative learning as a methodological strategy in a motor learning course: An experience in practical classes. *Education, Sport, Health and Physical Activity*, *6*(2), 162–178. https://doi.org/10.5281/zenodo.7303754
- Jiménez-Monteagudo, M. L., & Hernández-Álvarez, J. L. (2013). Initial teacher training for inclusive physical education: Status, future and competencies. *International Journal of Medicine and Science of Physical Activity and Sport*, 13(51), 471–494.
- Klavina, A., Jerlinder, K., Kristén, L., Hammar, L., & Soulie, T. (2014). Cooperative oriented learning in inclusive physical education. *European Journal of Special Needs Education*, 29(2), 119–134. https://doi.org/10.1080/08856257.2013.859818

- Ley Orgánica 3/2020, de 29 de diciembre, por la que se modifica la Ley Orgánica 2/2006, de 3 de mayo, de Educación (LOMLOE). BOE núm. 340, de 30 de diciembre de 2020.
- Martínez-Benito, R., & Sánchez, G. (2020). Cooperative learning in physical education: initial callenges and developmental proposals. *Journal of Education*, 44(1), 19–29. https://doi. org/10.15517/revedu.v44i1.35617
- Matzumura-Kasano, J. P., Gutiérrez-Crespo, H., Pastor-García, C., & Ruiz-Arias, R. A. (2019). Valuation of collaborative work and academic performance in the teaching process of a research course in medical students. *Anales de la Facultad de Medicina*, 80(4), 457–464. https://doi.org/10.15381/anales.v80i4.17251
- Mosia, P. A. (2014). Threats to inclusive education in Lesotho: An overview of policy and implementation challenges. *Africa Education Review*, *11*(3), 292–310. https://doi.org/10.1080/1814 6627.2014.934989
- Muñoz, Y., Monge, C., & Torrego, J. C. (2020). Teacher education in cooperative learning and its influence on inclusive education. *Improving Schools*, 23(3), 277–290. https://doi.org/10.1177/1365480220929440
- Muntaner Guasp, J. J., & Forteza Forteza, D. (2021). Impact of cooperative learning on the inclusion of students in secondary education. *Educar*, *57*(2), 305–318. https://doi.org/10.5565/rev/educar.1236
- Nguyen, C., Trinh, T., Le, D., & Nguyen, T. (2021). Cooperative Learning in English Language Classrooms: Teachers' Perceptions and Actions. *Anatolian Journal of Education*, *6*(2), 89–108. https://doi.org/10.29333/aje.2021.628a
- Nieva, C., & Lleixà, T. (2016). Las estrategias cooperativas y el juego cooperativo como herramientas para la mejora de la inclusión de las niñas inmigrantes en las clases de educación física de primaria. In Actas 10° Congreso Internacional de Actividades Físicas Cooperativas (pp. 470–481).
- Nunnally, J. C., & Bernstein, I. H. (1994). *Psychometric theory*. McGraw-Hill.
- Páez, E., Urbano, M., Campanario, M. D. C., Montiel, M. D. M., Patricio, M. V., Vioque, A., & Caparrós, R. (2018). Cooperative learning and visual disability: A successful experience in educational inclusion. *Integración: Revista Digital Sobre Discapacidad Visual*, 73, 8–20.

- Pegalajar, M. D. C., & Colmenero, M. J. (2013). Perceptions towards cooperative learning in students of Primary and Infant Education Teacher Degrees. *Revista de Docencia Universitaria*, 11(3), 343-362. https://doi.org/10.4995/redu.2013.5532
- Perlado, I., Muñoz, Y., & Torrego, J. C. (2019). Implications of teachereducationin cooperative learning for inclusive education. *Profesorado, Revista de Currículum y Formación del Profesorado*, 23(4),128–151. https://doi.org/10.30827/profesorado.v23i4.9468
- Prieto, J. A., Fernández-Río, J., Cecchini, J. A., Méndez-Giménez, A., & Méndez, D. (2016). Teachers' attitude and perception towards cooperative learning implementation: Influence of continuing training. *Teaching and Teacher Education*, *59*, 438–445. https://doi.org/10.1016/j.tate.2016.07.020
- Qi, J., & Ha, A. S. (2012). Inclusion in physical education: A review of literature. *International Journal of Disability, Development and Education*, 59(3), 257–281. https://doi.org/10.1080/1034912X.2012.697737
- Reina, R., Hemmelmayr, I., & Sierra-Marroquín, B. (2016). Self-efficacy of Physical Education teachers toward inclusion of students with disabilities and regarding their previous training and experiences. *Psychology, Society, & Education*, 8(2), 93–103. https://doi.org/10.25115/psye.v8i2.455
- Rodríguez, J. E., Civeiro, A., & Navarro, R. (2017). Teacher training of physical education in consideration to diversity in elementary education. *Sportis. Scientific Journal of School Sport, Physical Education and Psychomotricity*, *3*(2), 323–339. https://doi.org/10.17979/sportis.2017.3.2.1886
- Rojo-Ramos, J., Ferrera-Granados, C., Fernández-Guerrero, M., Manzano-Redondo, F., Garcia-Gordillo, M. Á., Polero, P., & Adsuar, J. C. (2020). A descriptive study on the training and attitude of future teachers towards educational inclusion. *Sustainability*, *12*(9), 1–14. https://doi.org/10.3390/su12198028
- Sánchez-Molina, A., González-Martí, I., & Hernández-Martínez, A. (2021). Physical education teacher's perception of cooperative learning and its relation to emotional intelligence. *Retos: Nuevas Tendencias en Educación Física, Deporte y Recreación*, (41), 735–745. https://doi.org/10.47197/retos.v41i0.86198
- Simoni, C., Santillana, H., & Yáñez, A. (2013). Inclusion and cooperative learning in physical education classes through Aronson's puzzle. *La Peonza: Revista de Educación Física para la paz*, (8), 20–32.

- Tárraga-Mínguez, R., Cebolla-Tudela, L., Gómez-Mari, I., & Sanz-Cervera, P. (2022). Teachers' concepts on inclusive education. Differences among educational stages. *Revista de Ciencias Humanas y Sociales*, (98), 44–62.
- Tárraga, R., Grau, C., & Peirats, J. (2013). Attitudes of students of the faculty of education and the masters' degree in special education towards an educational inclusion. *Interuniversity Electronic Journal of Teacher Formation*, *16*(1), 55–72. https://doi.org/10.6018/reifop.16.1.179441
- Taylor, I. M., Spray, C. M., & Pearson, N. (2014). The influence of the physical education environment on children's well-being and physical activity across the transition from primary to secondary school. *Journal of Sport and Exercise Psychology*, *36*(6), 574–583. https://doi.org/10.1123/jsep.2014-0038
- Torres, J. A., & Fernández, J. M. (2015). Promoting inclusive schools: analysis of perceptions and needs of teachers from an organizational, curricular and professional development perspective. *Interuniversity Electronic Journal of Teacher Formation*, 18(1), 177–200.
- Traver, J. A., & García, R. (2007). Construction of scale-questionnaire on the attitude of the teaching staff as opposed to the educative innovation by means of techniques of cooperative work (CAPIC). *Scientific Information System Redalyc*, *9*(1), 1–14.
- Triviño-Amigo, N., Barrios-Fernandez, S., Mañanas-Iglesias, C., Carlos-Vivas, J., Mendoza-Muñoz, M., Adsuar, J. C., Acevedo-Duque, Á., & Rojo-Ramos, J. (2022a). Spanish teachers' perceptions of their preparation for inclusive education: the relationship between age and years of teaching experience. *International Journal of Environmental Research and Public Health*, 19(9), 1–12. https://doi.org/10.3390/ijerph19095750
- Triviño-Amigo, N., Mendoza-Muñoz, D. M., Mayordomo-Pinilla, N.-F., Sabina, Contreras-Barraza, N., Gil-Marín, M., Castillo, D., Galán-Arroyo, C., & Rojo-Ramos, J. (2022b). Inclusive education in primary and secondary school: perception of teacher training. *International Journal of Environmental Research and Public Health*, 19(23), 1–12. https://doi.org/10.3390%2Fijerph192315451
- Valencia-Peris, A., & Mínguez-Alfaro, P. (2018). La atención a la diversidad en la formación inicial del profesorado de Educación Física de Primaria. http://amieedu.org/actascimie18/

- Valencia-Peris, A., Mínguez-Alfaro, P., & Martos-García, D. (2020). Pre-service physical education teacher education: A view from attention to diversity. *Retos: Nuevas Tendencias en Educación Física, Deporte y Recreación*, (37), 597–604. https://doi.org/10.47197/retos.v37i37.74180
- Velázquez, C. (2015). Enfoques y posibilidades del aprendizaje cooperativo. *Tándem Didáctica de la Educación Física*, (50), 25–31.
- Velázquez, C. (2018). Cooperative learning in physical education: theoretical approaches and putting into practice. *Acciónmotriz*, (20), 7–16.
- Velázquez, C., Fraile, A., & López, V. M. (2014). Cooperative learning in physical education. *Movimiento*, 20(1), 239–259. https://doi.org/10.22456/1982-8918.40518
- Vicent, M., & Aparicio-Flores, M. D. P. (2019). Investigación e innovación en la enseñanza superior. Octaedro.
- Völlinger, V. A., & Supanc, M. (2020). Student teachers' attitudes towards cooperative learning in inclusive education. *European Journal of Psychology of Education*, *35*(3), 727–749. https://doi.org/10.1007/s10212-019-00435-7
- Wang, L., & Yu, Z. (2023). Gender-moderated effects of academic self-concept on achievement, motivation, performance, and self-efficacy: A systematic review. *Frontiers in Psychology*, *14*, 1–15. https://doi.org/10.3389/fpsyg.2023.1136141