

## ANNEX 3

# EXCIITE PR2 SURVEY DATA ANALYSIS



*EXCIITE- Enabling eXtremely Creative, Inclusive, Inspiring Teachers for Europe  
Erasmus+ KA2 2021 project- Cooperation partnerships in school education  
December 2021 – November 2024*



**Co-funded by  
the European Union**

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.  
Convention N. 2021-1-IT02-KA220-SCH-000029900.

## **TABLE OF CONTENTS**

1. Background and Qualification
2. Current work
3. Professional Development
4. Innovation
5. Creativity
6. Inclusion
7. Digital
8. GPE



## SECTION 1: BACKGROUND AND QUALIFICATION

| Descriptive Statistics |     |      |      |         |                |
|------------------------|-----|------|------|---------|----------------|
|                        | N   | Min. | Max. | Media   | std. Deviation |
| General                | 308 | 1    | 4    | 2,10    | 1,230          |
| gender                 | 308 | 0    | 2    | 0,13    | 0,373          |
| age                    | 308 | 23   | 67   | 46,31   | 10,300         |
| state                  | 308 | 2    | 27   | 16,82   | 5,037          |
| Year of Qualification  | 308 | 1975 | 2026 | 2002,35 | 12,595         |
| formal edu             | 308 | 1    | 7    | 5,60    | 1,333          |
| Listwise               | 308 |      |      |         |                |

| Statistics     |              |        |       |            |                       |
|----------------|--------------|--------|-------|------------|-----------------------|
|                |              | gender | state | formal edu | Year of Qualification |
| N              | Valid        | 308    | 308   | 308        | 308                   |
|                | Missing data | 0      | 0     | 0          | 0                     |
| Media          |              | 0,13   | 16,82 | 5,60       | 2002,35               |
| Median         |              | 0,00   | 15,00 | 6,00       | 2003,00               |
| std. Deviation |              | 0,373  | 5,037 | 1,333      | 12,595                |
| Percentili     | 25           | 0,00   | 13,00 | 5,00       | 1992,00               |
|                | 50           | 0,00   | 15,00 | 6,00       | 2003,00               |

|  |    |      |       |      |         |
|--|----|------|-------|------|---------|
|  | 75 | 0,00 | 15,00 | 6,00 | 2012,00 |
|--|----|------|-------|------|---------|

## FREQUENCIES TABLES

### Item 1. Are you female or male?

| Gender |       |           |            |                  |                       |
|--------|-------|-----------|------------|------------------|-----------------------|
|        |       | Frequency | Percentage | Valid Percentage | Cumulative Percentage |
| Valid  | 0     | 272       | 88,3       | 88,3             | 88,3                  |
|        | 1     | 32        | 10,4       | 10,4             | 98,7                  |
|        | 2     | 4         | 1,3        | 1,3              | 100,0                 |
|        | Total | 308       | 100,0      | 100,0            |                       |

### Item 2. How old are you?

| Age   |    |           |            |                  |                       |
|-------|----|-----------|------------|------------------|-----------------------|
|       |    | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid | 23 | 1         | 0,3        | 0,3              | 0,3                   |
|       | 25 | 2         | 0,6        | 0,6              | 1,0                   |
|       | 26 | 3         | 1,0        | 1,0              | 1,9                   |
|       | 27 | 5         | 1,6        | 1,6              | 3,6                   |
|       | 28 | 3         | 1,0        | 1,0              | 4,5                   |
|       | 29 | 7         | 2,3        | 2,3              | 6,8                   |
|       | 30 | 12        | 3,9        | 3,9              | 10,7                  |

|  |    |    |     |     |      |
|--|----|----|-----|-----|------|
|  | 31 | 4  | 1,3 | 1,3 | 12,0 |
|  | 32 | 5  | 1,6 | 1,6 | 13,6 |
|  | 33 | 2  | 0,6 | 0,6 | 14,3 |
|  | 34 | 6  | 1,9 | 1,9 | 16,2 |
|  | 35 | 7  | 2,3 | 2,3 | 18,5 |
|  | 36 | 6  | 1,9 | 1,9 | 20,5 |
|  | 37 | 7  | 2,3 | 2,3 | 22,7 |
|  | 38 | 4  | 1,3 | 1,3 | 24,0 |
|  | 39 | 7  | 2,3 | 2,3 | 26,3 |
|  | 40 | 10 | 3,2 | 3,2 | 29,5 |
|  | 41 | 4  | 1,3 | 1,3 | 30,8 |
|  | 42 | 5  | 1,6 | 1,6 | 32,5 |
|  | 43 | 9  | 2,9 | 2,9 | 35,4 |
|  | 44 | 14 | 4,5 | 4,5 | 39,9 |
|  | 45 | 9  | 2,9 | 2,9 | 42,9 |
|  | 46 | 14 | 4,5 | 4,5 | 47,4 |
|  | 47 | 14 | 4,5 | 4,5 | 51,9 |
|  | 48 | 13 | 4,2 | 4,2 | 56,2 |
|  | 49 | 16 | 5,2 | 5,2 | 61,4 |
|  | 50 | 8  | 2,6 | 2,6 | 64,0 |
|  | 51 | 4  | 1,3 | 1,3 | 65,3 |
|  | 52 | 5  | 1,6 | 1,6 | 66,9 |
|  | 53 | 13 | 4,2 | 4,2 | 71,1 |

|  |       |     |       |       |       |
|--|-------|-----|-------|-------|-------|
|  | 54    | 14  | 4,5   | 4,5   | 75,6  |
|  | 55    | 9   | 2,9   | 2,9   | 78,6  |
|  | 56    | 14  | 4,5   | 4,5   | 83,1  |
|  | 57    | 5   | 1,6   | 1,6   | 84,7  |
|  | 58    | 9   | 2,9   | 2,9   | 87,7  |
|  | 59    | 4   | 1,3   | 1,3   | 89,0  |
|  | 60    | 9   | 2,9   | 2,9   | 91,9  |
|  | 61    | 11  | 3,6   | 3,6   | 95,5  |
|  | 62    | 3   | 1,0   | 1,0   | 96,4  |
|  | 63    | 2   | 0,6   | 0,6   | 97,1  |
|  | 64    | 2   | 0,6   | 0,6   | 97,7  |
|  | 65    | 5   | 1,6   | 1,6   | 99,4  |
|  | 66    | 1   | 0,3   | 0,3   | 99,7  |
|  | 67    | 1   | 0,3   | 0,3   | 100,0 |
|  | Total | 308 | 100,0 | 100,0 |       |

**Item 3. In which EU member state do you currently teach?**

| State |   |           |            |                  |                       |
|-------|---|-----------|------------|------------------|-----------------------|
|       |   | Frequency | Percentage | Valid Percentage | Cumulative Percentage |
| Valid | 2 | 1         | 0,3        | 0,3              | 0,3                   |
|       | 6 | 1         | 0,3        | 0,3              | 0,6                   |

|  |       |     |       |       |       |
|--|-------|-----|-------|-------|-------|
|  | 9     | 1   | 0,3   | 0,3   | 1,0   |
|  | 12    | 1   | 0,3   | 0,3   | 1,3   |
|  | 13    | 74  | 24,0  | 24,0  | 25,3  |
|  | 14    | 1   | 0,3   | 0,3   | 25,6  |
|  | 15    | 161 | 52,3  | 52,3  | 77,9  |
|  | 16    | 1   | 0,3   | 0,3   | 78,2  |
|  | 23    | 2   | 0,6   | 0,6   | 78,9  |
|  | 26    | 55  | 17,9  | 17,9  | 96,8  |
|  | 27    | 10  | 3,2   | 3,2   | 100,0 |
|  | Total | 308 | 100,0 | 100,0 |       |

**Item 4. What is the highest level of formal education you have completed?**

| Formal edu |   | Frequency | Percentage | Valid Percentage | Cumulative Percentage |
|------------|---|-----------|------------|------------------|-----------------------|
| Valid      | 1 | 1         | 0,3        | 0,3              | 0,3                   |
|            | 2 | 27        | 8,8        | 8,8              | 9,1                   |
|            | 3 | 3         | 1,0        | 1,0              | 10,1                  |
|            | 4 | 1         | 0,3        | 0,3              | 10,4                  |
|            | 5 | 52        | 16,9       | 16,9             | 27,3                  |
|            | 6 | 170       | 55,2       | 55,2             | 82,5                  |



|  |       |     |       |       |       |
|--|-------|-----|-------|-------|-------|
|  | 7     | 54  | 17,5  | 17,5  | 100,0 |
|  | Total | 308 | 100,0 | 100,0 |       |

**Item 5. When did you complete the formal education or training that qualified you to teach?**

| Year of Qualification |      |           |            |                  |                       |
|-----------------------|------|-----------|------------|------------------|-----------------------|
|                       |      | Frequency | Percentage | Valid Percentage | Cumulative Percentage |
| Valid                 | 1975 | 1         | 0,3        | 0,3              | 0,3                   |
|                       | 1976 | 1         | 0,3        | 0,3              | 0,6                   |
|                       | 1978 | 2         | 0,6        | 0,6              | 1,3                   |
|                       | 1979 | 5         | 1,6        | 1,6              | 2,9                   |
|                       | 1980 | 4         | 1,3        | 1,3              | 4,2                   |
|                       | 1981 | 1         | 0,3        | 0,3              | 4,5                   |
|                       | 1982 | 6         | 1,9        | 1,9              | 6,5                   |
|                       | 1983 | 3         | 1,0        | 1,0              | 7,5                   |
|                       | 1984 | 5         | 1,6        | 1,6              | 9,1                   |
|                       | 1985 | 6         | 1,9        | 1,9              | 11,0                  |
|                       | 1986 | 10        | 3,2        | 3,2              | 14,3                  |
|                       | 1987 | 9         | 2,9        | 2,9              | 17,2                  |

|  |      |    |     |     |      |
|--|------|----|-----|-----|------|
|  | 1988 | 6  | 1,9 | 1,9 | 19,2 |
|  | 1989 | 3  | 1,0 | 1,0 | 20,1 |
|  | 1990 | 4  | 1,3 | 1,3 | 21,4 |
|  | 1991 | 5  | 1,6 | 1,6 | 23,1 |
|  | 1992 | 10 | 3,2 | 3,2 | 26,3 |
|  | 1993 | 4  | 1,3 | 1,3 | 27,6 |
|  | 1994 | 3  | 1,0 | 1,0 | 28,6 |
|  | 1995 | 7  | 2,3 | 2,3 | 30,8 |
|  | 1996 | 7  | 2,3 | 2,3 | 33,1 |
|  | 1997 | 5  | 1,6 | 1,6 | 34,7 |
|  | 1998 | 10 | 3,2 | 3,2 | 38,0 |
|  | 1999 | 5  | 1,6 | 1,6 | 39,6 |
|  | 2000 | 14 | 4,5 | 4,5 | 44,2 |
|  | 2001 | 9  | 2,9 | 2,9 | 47,1 |
|  | 2002 | 5  | 1,6 | 1,6 | 48,7 |
|  | 2003 | 10 | 3,2 | 3,2 | 51,9 |
|  | 2004 | 7  | 2,3 | 2,3 | 54,2 |
|  | 2005 | 9  | 2,9 | 2,9 | 57,1 |
|  | 2006 | 13 | 4,2 | 4,2 | 61,4 |
|  | 2007 | 5  | 1,6 | 1,6 | 63,0 |
|  | 2008 | 6  | 1,9 | 1,9 | 64,9 |
|  | 2009 | 5  | 1,6 | 1,6 | 66,6 |
|  | 2010 | 11 | 3,6 | 3,6 | 70,1 |

|  |       |     |       |       |       |
|--|-------|-----|-------|-------|-------|
|  | 2011  | 7   | 2,3   | 2,3   | 72,4  |
|  | 2012  | 9   | 2,9   | 2,9   | 75,3  |
|  | 2013  | 4   | 1,3   | 1,3   | 76,6  |
|  | 2014  | 7   | 2,3   | 2,3   | 78,9  |
|  | 2016  | 9   | 2,9   | 2,9   | 81,8  |
|  | 2017  | 9   | 2,9   | 2,9   | 84,7  |
|  | 2018  | 11  | 3,6   | 3,6   | 88,3  |
|  | 2019  | 4   | 1,3   | 1,3   | 89,6  |
|  | 2020  | 10  | 3,2   | 3,2   | 92,9  |
|  | 2021  | 10  | 3,2   | 3,2   | 96,1  |
|  | 2022  | 6   | 1,9   | 1,9   | 98,1  |
|  | 2023  | 5   | 1,6   | 1,6   | 99,7  |
|  | 2026  | 1   | 0,3   | 0,3   | 100,0 |
|  | Total | 308 | 100,0 | 100,0 |       |

|                   |              |        |
|-------------------|--------------|--------|
| <b>Statistics</b> |              |        |
| age               |              |        |
| N                 | Valid        | 308    |
|                   | Missing data | 0      |
| Media             |              | 46,31  |
| Median            |              | 47,00  |
| std Deviation .   |              | 10,300 |
| Percentili        | 25           | 39,00  |

|  |    |       |
|--|----|-------|
|  | 50 | 47,00 |
|  | 75 | 54,00 |

| Statistiche     |          |                  |                       |                   |                   |                |                            |                |              |                    |                         |                       |               |
|-----------------|----------|------------------|-----------------------|-------------------|-------------------|----------------|----------------------------|----------------|--------------|--------------------|-------------------------|-----------------------|---------------|
|                 |          | incl_<br>subject | incl_<br>pedagog<br>y | incl_<br>generalP | incl_<br>practice | incl_<br>mixed | incl_<br>multicultura<br>l | incl_<br>cross | incl_<br>ICT | incl_<br>behaviour | incl_<br>monitorin<br>g | incl_<br>facilitating | incl_pla<br>y |
| N               | Valido   | 308              | 308                   | 308               | 308               | 243            | 243                        | 308            | 308          | 308                | 308                     | 308                   | 308           |
|                 | Mancante | 0                | 0                     | 0                 | 0                 | 65             | 65                         | 0              | 0            | 0                  | 0                       | 0                     | 0             |
| Media           |          | 0,83             | 0,74                  | 0,87              | 0,76              | 0,42           | 0,29                       | 0,53           | 0,46         | 0,44               | 0,52                    | 0,20                  | 0,46          |
| Mediana         |          | 1,00             | 1,00                  | 1,00              | 1,00              | 0,00           | 0,00                       | 1,00           | 0,00         | 0,00               | 1,00                    | 0,00                  | 0,00          |
| Deviazione std. |          | 0,372            | 0,437                 | 0,340             | 0,430             | 0,494          | 0,456                      | 0,500          | 0,499        | 0,497              | 0,500                   | 0,404                 | 0,499         |

|            |    |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|
| Percentili | 25 | 1,00 | 0,00 | 1,00 | 1,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
|            | 50 | 1,00 | 1,00 | 1,00 | 1,00 | 0,00 | 0,00 | 1,00 | 0,00 | 0,00 | 1,00 | 0,00 | 0,00 |
|            | 75 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 0,00 | 1,00 |

### Frequencies tables for each item

#### 6.A. Were the following elements included in your formal education or training?

| Item 6A.1 Included_subject  |        |           |             |                    |                        |
|-----------------------------|--------|-----------|-------------|--------------------|------------------------|
|                             |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                      | 0      | 51        | 16,6        | 16,6               | 16,6                   |
|                             | 1      | 257       | 83,4        | 83,4               | 100,0                  |
|                             | Totale | 308       | 100,0       | 100,0              |                        |
|                             |        |           |             |                    |                        |
| Item 6A.2 included_pedagogy |        |           |             |                    |                        |
|                             |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                      | 0      | 79        | 25,6        | 25,6               | 25,6                   |
|                             | 1      | 229       | 74,4        | 74,4               | 100,0                  |
|                             | Totale | 308       | 100,0       | 100,0              |                        |

|                                   |               |                  |                     |                            |                                |
|-----------------------------------|---------------|------------------|---------------------|----------------------------|--------------------------------|
|                                   |               |                  |                     |                            |                                |
| <b>Item 6A.3included_generalP</b> |               |                  |                     |                            |                                |
|                                   |               | <b>Frequenza</b> | <b>Percentual e</b> | <b>Percentual e valida</b> | <b>Percentual e cumulativa</b> |
| <b>Valido</b>                     | 0             | 41               | 13,3                | 13,3                       | 13,3                           |
|                                   | 1             | 267              | 86,7                | 86,7                       | 100,0                          |
|                                   | <b>Totale</b> | <b>308</b>       | <b>100,0</b>        | <b>100,0</b>               |                                |
|                                   |               |                  |                     |                            |                                |
| <b>6A.4 Included_practice</b>     |               |                  |                     |                            |                                |
|                                   |               | <b>Frequenza</b> | <b>Percentual e</b> | <b>Percentual e valida</b> | <b>Percentual e cumulativa</b> |
| <b>Valido</b>                     | 0             | 75               | 24,4                | 24,4                       | 24,4                           |
|                                   | 1             | 233              | 75,6                | 75,6                       | 100,0                          |
|                                   | <b>Totale</b> | <b>308</b>       | <b>100,0</b>        | <b>100,0</b>               |                                |
|                                   |               |                  |                     |                            |                                |
| <b>6A.5 Included_mixed</b>        |               |                  |                     |                            |                                |
|                                   |               | <b>Frequenza</b> | <b>Percentual e</b> | <b>Percentual e valida</b> | <b>Percentual e cumulativa</b> |

|                                    |               |                  |                         |                                |                                        |
|------------------------------------|---------------|------------------|-------------------------|--------------------------------|----------------------------------------|
| <b>Valido</b>                      | 0             | 142              | 46,1                    | 58,4                           | <b>58,4</b>                            |
|                                    | 1             | 101              | 32,8                    | 41,6                           | <b>100,0</b>                           |
|                                    | <b>Totale</b> | 243              | 78,9                    | 100,0                          |                                        |
| <b>Mancante</b>                    | Sistema       | 65               | 21,1                    |                                |                                        |
| <b>Totale</b>                      |               | <b>308</b>       | <b>100,0</b>            |                                |                                        |
|                                    |               |                  |                         |                                |                                        |
| <b>6A.6 Included_multicultural</b> |               |                  |                         |                                |                                        |
|                                    |               | <b>Frequenza</b> | <b>Percentual<br/>e</b> | <b>Percentual<br/>e valida</b> | <b>Percentual<br/>e<br/>cumulativa</b> |
| <b>Valido</b>                      | 0             | 172              | 55,8                    | 70,8                           | 70,8                                   |
|                                    | 1             | 71               | 23,1                    | 29,2                           | 100,0                                  |
|                                    | <b>Totale</b> | 243              | 78,9                    | 100,0                          |                                        |
| <b>Mancante</b>                    | Sistema       | 65               | 21,1                    |                                |                                        |
| <b>Totale</b>                      |               | <b>308</b>       | <b>100,0</b>            |                                |                                        |
|                                    |               |                  |                         |                                |                                        |
| <b>6A.7 Included_cross</b>         |               |                  |                         |                                |                                        |
|                                    |               | <b>Frequenza</b> | <b>Percentual<br/>e</b> | <b>Percentual<br/>e valida</b> | <b>Percentual<br/>e<br/>cumulativa</b> |

|                                |               |                  |                         |                                |                                        |
|--------------------------------|---------------|------------------|-------------------------|--------------------------------|----------------------------------------|
| <b>Valido</b>                  | 0             | 145              | 47,1                    | 47,1                           | 47,1                                   |
|                                | 1             | 163              | 52,9                    | 52,9                           | 100,0                                  |
|                                | <b>Totale</b> | <b>308</b>       | <b>100,0</b>            | <b>100,0</b>                   |                                        |
|                                |               |                  |                         |                                |                                        |
| <b>6A.8 Included_ICT</b>       |               |                  |                         |                                |                                        |
|                                |               | <b>Frequenza</b> | <b>Percentual<br/>e</b> | <b>Percentual<br/>e valida</b> | <b>Percentual<br/>e<br/>cumulativa</b> |
| <b>Valido</b>                  | 0             | 166              | 53,9                    | 53,9                           | 53,9                                   |
|                                | 1             | 142              | 46,1                    | 46,1                           | 100,0                                  |
|                                | <b>Totale</b> | <b>308</b>       | <b>100,0</b>            | <b>100,0</b>                   |                                        |
|                                |               |                  |                         |                                |                                        |
| <b>6A.9 Included_behaviour</b> |               |                  |                         |                                |                                        |
|                                |               | <b>Frequenza</b> | <b>Percentual<br/>e</b> | <b>Percentual<br/>e valida</b> | <b>Percentual<br/>e<br/>cumulativa</b> |
| <b>Valido</b>                  | 0             | 173              | 56,2                    | 56,2                           | 56,2                                   |
|                                | 1             | 135              | 43,8                    | 43,8                           | 100,0                                  |
|                                | <b>Totale</b> | <b>308</b>       | <b>100,0</b>            | <b>100,0</b>                   |                                        |
|                                |               |                  |                         |                                |                                        |



| 6A.10 Included_monitoring   |        |           |             |                    |                        |
|-----------------------------|--------|-----------|-------------|--------------------|------------------------|
|                             |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                      | 0      | 148       | 48,1        | 48,1               | 48,1                   |
|                             | 1      | 160       | 51,9        | 51,9               | 100,0                  |
|                             | Totale | 308       | 100,0       | 100,0              |                        |
|                             |        |           |             |                    |                        |
| 6A.11 Included_facilitating |        |           |             |                    |                        |
|                             |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                      | 0      | 245       | 79,5        | 79,5               | 79,5                   |
|                             | 1      | 63        | 20,5        | 20,5               | 100,0                  |
|                             | Totale | 308       | 100,0       | 100,0              |                        |
|                             |        |           |             |                    |                        |
| 6A.12 Included_play         |        |           |             |                    |                        |
|                             |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                      | 0      | 166       | 53,9        | 53,9               | 53,9                   |

|  |               |            |              |              |       |
|--|---------------|------------|--------------|--------------|-------|
|  | 1             | 142        | 46,1         | 46,1         | 100,0 |
|  | <b>Totale</b> | <b>308</b> | <b>100,0</b> | <b>100,0</b> |       |

### Descriptive statistics

|                         | N   | Minim<br>o | Massim<br>o | Somm<br>a | Medi<br>a | Deviazione std. |
|-------------------------|-----|------------|-------------|-----------|-----------|-----------------|
| incl_subject            | 308 | 0          | 1           | 257       | 0,83      | 0,372           |
| incl_pedagogy           | 308 | 0          | 1           | 229       | 0,74      | 0,437           |
| incl_generalP           | 308 | 0          | 1           | 267       | 0,87      | 0,340           |
| incl_practice           | 308 | 0          | 1           | 233       | 0,76      | 0,430           |
| incl_mixed              | 243 | 0          | 1           | 101       | 0,42      | 0,494           |
| incl_multicultural<br>l | 243 | 0          | 1           | 71        | 0,29      | 0,456           |
| incl_cross              | 308 | 0          | 1           | 163       | 0,53      | 0,500           |
| incl_ICT                | 308 | 0          | 1           | 142       | 0,46      | 0,499           |
| incl_behaviour          | 308 | 0          | 1           | 135       | 0,44      | 0,497           |
| incl_monitoring         | 308 | 0          | 1           | 160       | 0,52      | 0,500           |
| incl_facilitating       | 308 | 0          | 1           | 63        | 0,20      | 0,404           |

|                                  |     |   |   |     |      |       |
|----------------------------------|-----|---|---|-----|------|-------|
| incl_play                        | 308 | 0 | 1 | 142 | 0,46 | 0,499 |
| Numero di casi validi (listwise) | 243 |   |   |     |      |       |

**Item 6B. To what extent did you feel prepared for each the following elements in your teaching?**

|                 |          | prep_subject | prep_pedagogy | prep_generalP | prep_practice | prep_mixed | prep_multicultural | prep_cross | prep_ICT | prep_behaviour | prep_monitoring | prep_facilitating | prep_play |
|-----------------|----------|--------------|---------------|---------------|---------------|------------|--------------------|------------|----------|----------------|-----------------|-------------------|-----------|
| N               | Valido   | 308          | 308           | 308           | 308           | 243        | 243                | 308        | 308      | 308            | 308             | 308               | 308       |
|                 | Mancante | 0            | 0             | 0             | 0             | 65         | 65                 | 0          | 0        | 0              | 0               | 0                 | 0         |
| Media           |          | 2,95         | 2,63          | 2,71          | 2,68          | 2,11       | 1,84               | 2,35       | 2,22     | 2,21           | 2,28            | 1,92              | 2,29      |
| Mediana         |          | 3,00         | 3,00          | 3,00          | 3,00          | 2,00       | 2,00               | 2,00       | 2,00     | 2,00           | 2,00            | 2,00              | 2,00      |
| Deviazione std. |          | 0,851        | 0,876         | 0,860         | 0,919         | 0,930      | 0,885              | 0,959      | 0,996    | 0,951          | 0,923           | 0,927             | 1,046     |
| Percentili      | 25       | 2,00         | 2,00          | 2,00          | 2,00          | 1,00       | 1,00               | 2,00       | 1,00     | 1,00           | 2,00            | 1,00              | 1,00      |
|                 | 50       | 3,00         | 3,00          | 3,00          | 3,00          | 2,00       | 2,00               | 2,00       | 2,00     | 2,00           | 2,00            | 2,00              | 2,00      |
|                 | 75       | 4,00         | 3,00          | 3,00          | 3,00          | 3,00       | 2,00               | 3,00       | 3,00     | 3,00           | 3,00            | 3,00              | 3,00      |

**Frequencies tables for each item**

| 6B.1 Prepared_subject  |        |           |             |                    |                        |
|------------------------|--------|-----------|-------------|--------------------|------------------------|
|                        |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                 | 1      | 13        | 4,2         | 4,2                | 4,2                    |
|                        | 2      | 80        | 26,0        | 26,0               | 30,2                   |
|                        | 3      | 124       | 40,3        | 40,3               | 70,5                   |
|                        | 4      | 91        | 29,5        | 29,5               | 100,0                  |
|                        | Totale | 308       | 100,0       | 100,0              |                        |
|                        |        |           |             |                    |                        |
| 6B.2 Prepared_pedagogy |        |           |             |                    |                        |
|                        |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                 | 1      | 32        | 10,4        | 10,4               | 10,4                   |
|                        | 2      | 99        | 32,1        | 32,1               | 42,5                   |
|                        | 3      | 127       | 41,2        | 41,2               | 83,8                   |
|                        | 4      | 50        | 16,2        | 16,2               | 100,0                  |
|                        | Totale | 308       | 100,0       | 100,0              |                        |
|                        |        |           |             |                    |                        |
| 6B.3 Prepared_general  |        |           |             |                    |                        |
|                        |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                 | 1      | 25        | 8,1         | 8,1                | 8,1                    |
|                        | 2      | 96        | 31,2        | 31,2               | 39,3                   |

|                               |         |           |             |                    |                        |
|-------------------------------|---------|-----------|-------------|--------------------|------------------------|
|                               | 3       | 130       | 42,2        | 42,2               | 81,5                   |
|                               | 4       | 57        | 18,5        | 18,5               | 100,0                  |
|                               | Totale  | 308       | 100,0       | 100,0              |                        |
|                               |         |           |             |                    |                        |
| <b>6B.4 Prepared_practice</b> |         |           |             |                    |                        |
|                               |         | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                        | 1       | 31        | 10,1        | 10,1               | 10,1                   |
|                               | 2       | 103       | 33,4        | 33,4               | 43,5                   |
|                               | 3       | 109       | 35,4        | 35,4               | 78,9                   |
|                               | 4       | 65        | 21,1        | 21,1               | 100,0                  |
|                               | Totale  | 308       | 100,0       | 100,0              |                        |
|                               |         |           |             |                    |                        |
| <b>6B.5 Prepared_mixed</b>    |         |           |             |                    |                        |
|                               |         | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                        | 1       | 72        | 23,4        | 29,6               | 29,6                   |
|                               | 2       | 94        | 30,5        | 38,7               | 68,3                   |
|                               | 3       | 56        | 18,2        | 23,0               | 91,4                   |
|                               | 4       | 21        | 6,8         | 8,6                | 100,0                  |
|                               | Totale  | 243       | 78,9        | 100,0              |                        |
| Mancante                      | Sistema | 65        | 21,1        |                    |                        |
| Totale                        |         | 308       | 100,0       |                    |                        |

|                                    |         |           |             |                    |                        |
|------------------------------------|---------|-----------|-------------|--------------------|------------------------|
|                                    |         |           |             |                    |                        |
| <b>6B.6 Prepared_multicultural</b> |         |           |             |                    |                        |
|                                    |         | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                             | 1       | 107       | 34,7        | 44,0               | 44,0                   |
|                                    | 2       | 80        | 26,0        | 32,9               | 77,0                   |
|                                    | 3       | 45        | 14,6        | 18,5               | 95,5                   |
|                                    | 4       | 11        | 3,6         | 4,5                | 100,0                  |
|                                    | Totale  | 243       | 78,9        | 100,0              |                        |
| Mancante                           | Sistema | 65        | 21,1        |                    |                        |
| Totale                             |         | 308       | 100,0       |                    |                        |
|                                    |         |           |             |                    |                        |
| <b>6B.7 Prepared_cross</b>         |         |           |             |                    |                        |
|                                    |         | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                             | 1       | 64        | 20,8        | 20,8               | 20,8                   |
|                                    | 2       | 113       | 36,7        | 36,7               | 57,5                   |
|                                    | 3       | 89        | 28,9        | 28,9               | 86,4                   |
|                                    | 4       | 42        | 13,6        | 13,6               | 100,0                  |
|                                    | Totale  | 308       | 100,0       | 100,0              |                        |
|                                    |         |           |             |                    |                        |
| <b>6B.8 Prepared_ICT</b>           |         |           |             |                    |                        |

|                                  |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
|----------------------------------|--------|-----------|-------------|--------------------|------------------------|
| Valido                           | 1      | 87        | 28,2        | 28,2               | 28,2                   |
|                                  | 2      | 106       | 34,4        | 34,4               | 62,7                   |
|                                  | 3      | 76        | 24,7        | 24,7               | 87,3                   |
|                                  | 4      | 39        | 12,7        | 12,7               | 100,0                  |
|                                  | Totale | 308       | 100,0       | 100,0              |                        |
|                                  |        |           |             |                    |                        |
| <b>6B.9 Prepared_behaviour</b>   |        |           |             |                    |                        |
|                                  |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                           | 1      | 81        | 26,3        | 26,3               | 26,3                   |
|                                  | 2      | 112       | 36,4        | 36,4               | 62,7                   |
|                                  | 3      | 83        | 26,9        | 26,9               | 89,6                   |
|                                  | 4      | 32        | 10,4        | 10,4               | 100,0                  |
|                                  | Totale | 308       | 100,0       | 100,0              |                        |
|                                  |        |           |             |                    |                        |
| <b>6B.10 Prepared_monitoring</b> |        |           |             |                    |                        |
|                                  |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                           | 1      | 67        | 21,8        | 21,8               | 21,8                   |
|                                  | 2      | 122       | 39,6        | 39,6               | 61,4                   |
|                                  | 3      | 86        | 27,9        | 27,9               | 89,3                   |

|  |        |     |       |       |       |
|--|--------|-----|-------|-------|-------|
|  | 4      | 33  | 10,7  | 10,7  | 100,0 |
|  | Totale | 308 | 100,0 | 100,0 |       |
|  |        |     |       |       |       |

#### 6B.11 Prepared\_facilitating

|        |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
|--------|--------|-----------|-------------|--------------------|------------------------|
| Valido | 1      | 126       | 40,9        | 40,9               | 40,9                   |
|        | 2      | 102       | 33,1        | 33,1               | 74,0                   |
|        | 3      | 60        | 19,5        | 19,5               | 93,5                   |
|        | 4      | 20        | 6,5         | 6,5                | 100,0                  |
|        | Totale | 308       | 100,0       | 100,0              |                        |
|        |        |           |             |                    |                        |

#### 6B.12 Prepared\_play

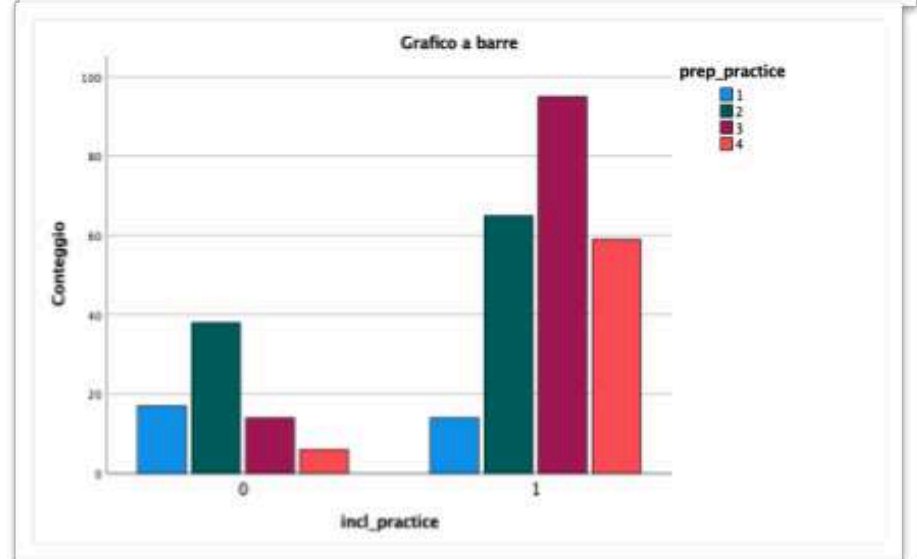
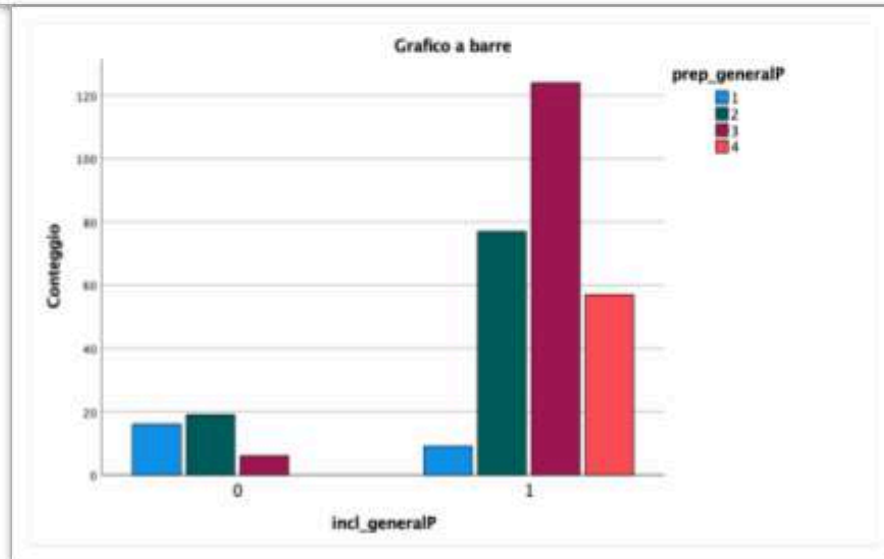
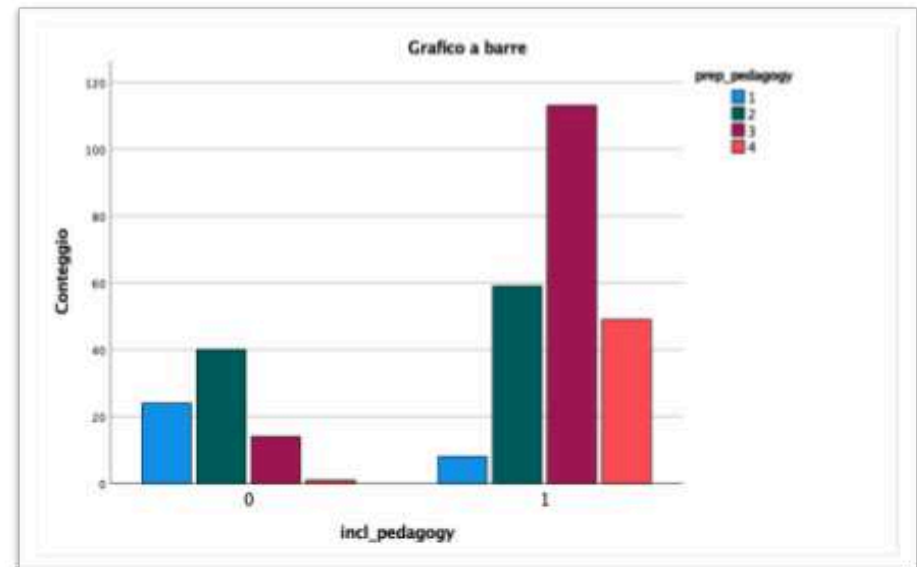
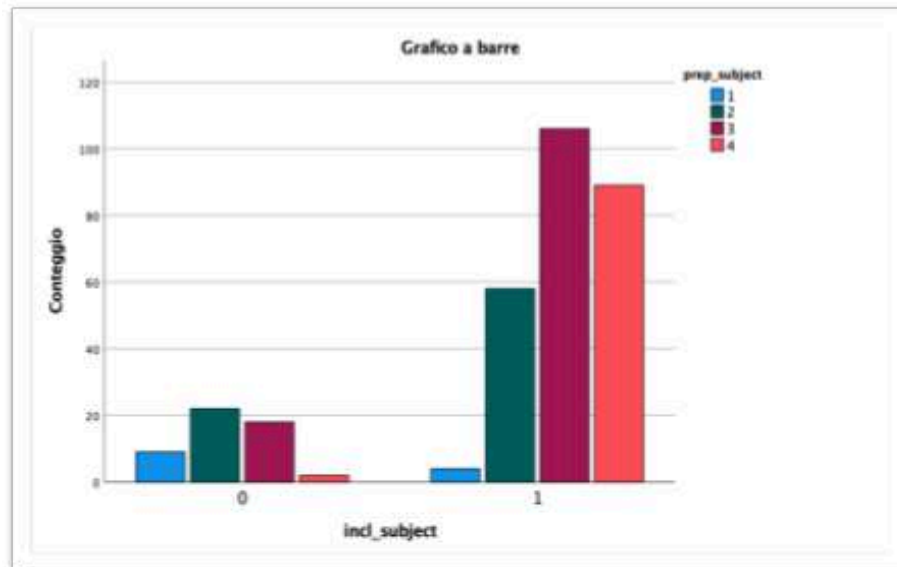
|        |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
|--------|--------|-----------|-------------|--------------------|------------------------|
| Valido | 1      | 84        | 27,3        | 27,3               | 27,3                   |
|        | 2      | 102       | 33,1        | 33,1               | 60,4                   |
|        | 3      | 70        | 22,7        | 22,7               | 83,1                   |
|        | 4      | 52        | 16,9        | 16,9               | 100,0                  |
|        | Totale | 308       | 100,0       | 100,0              |                        |

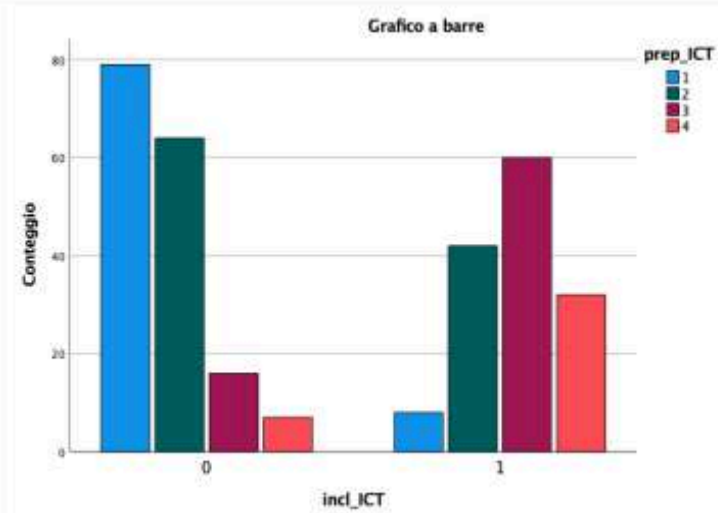
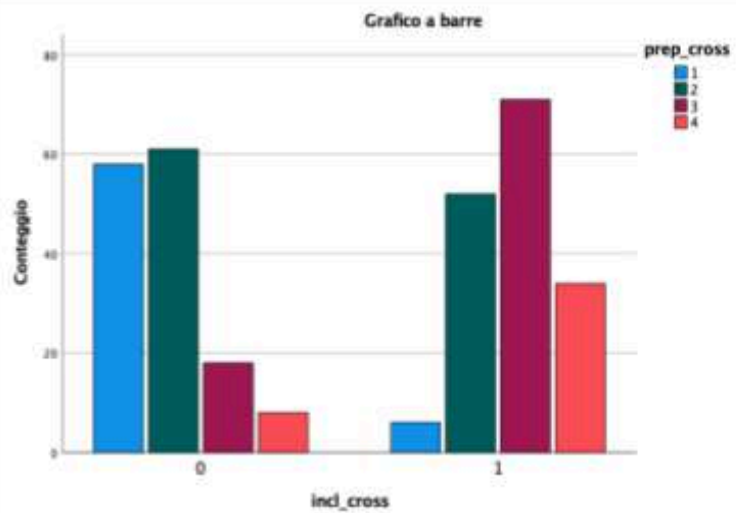
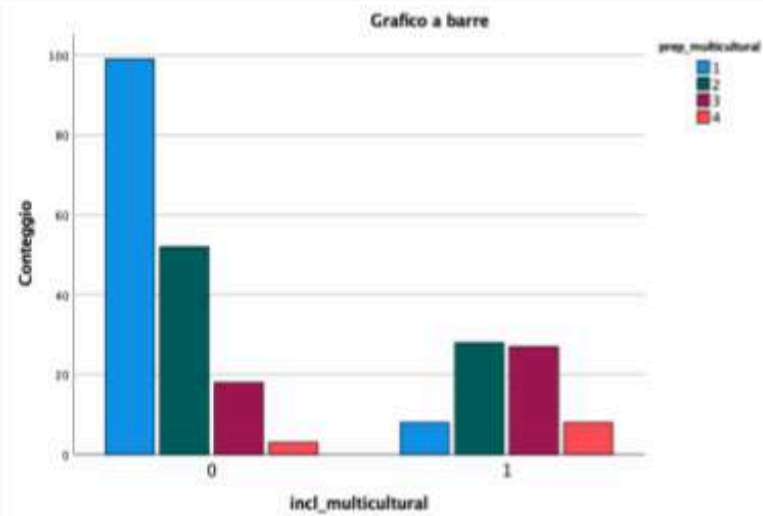
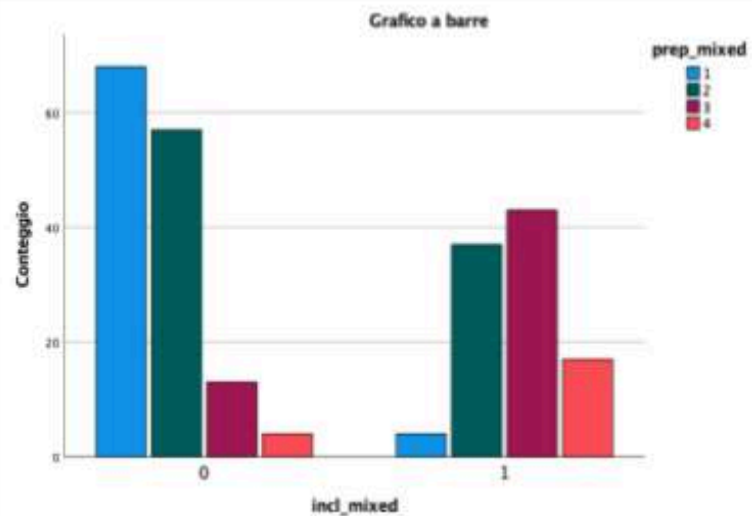


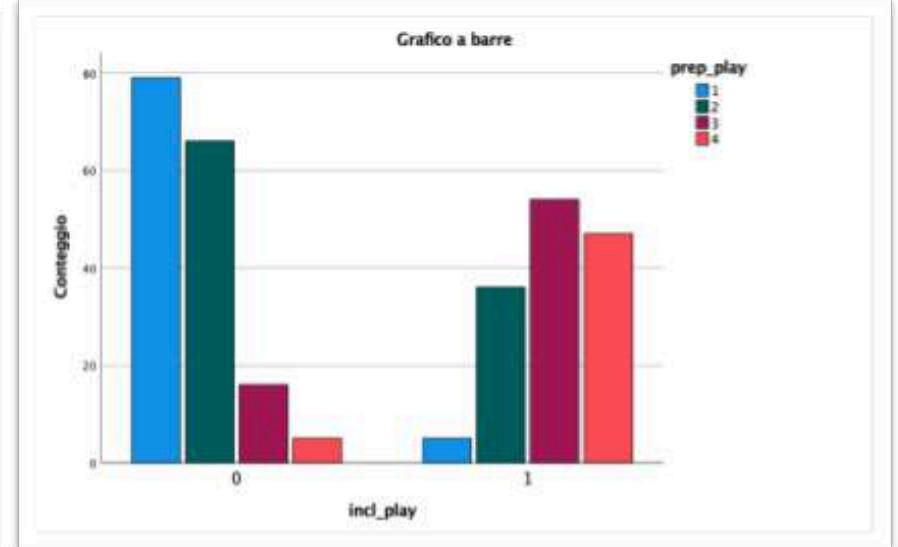
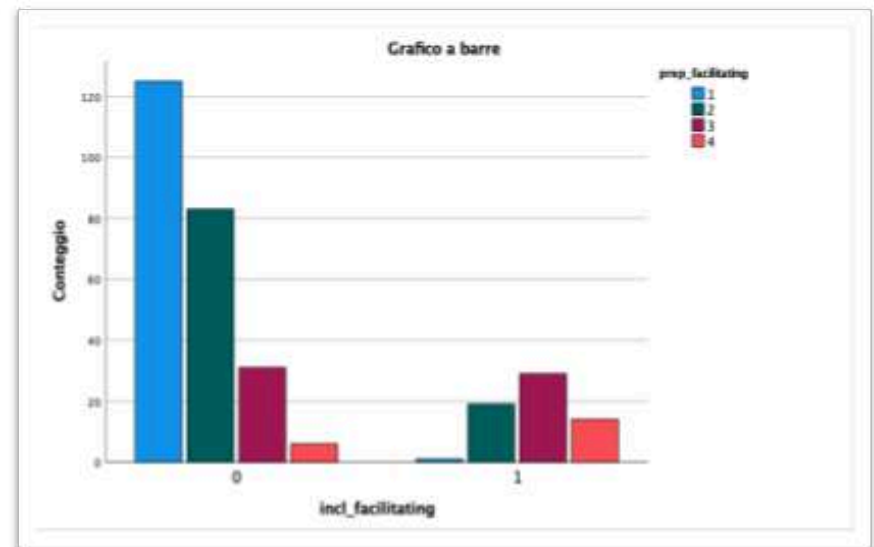
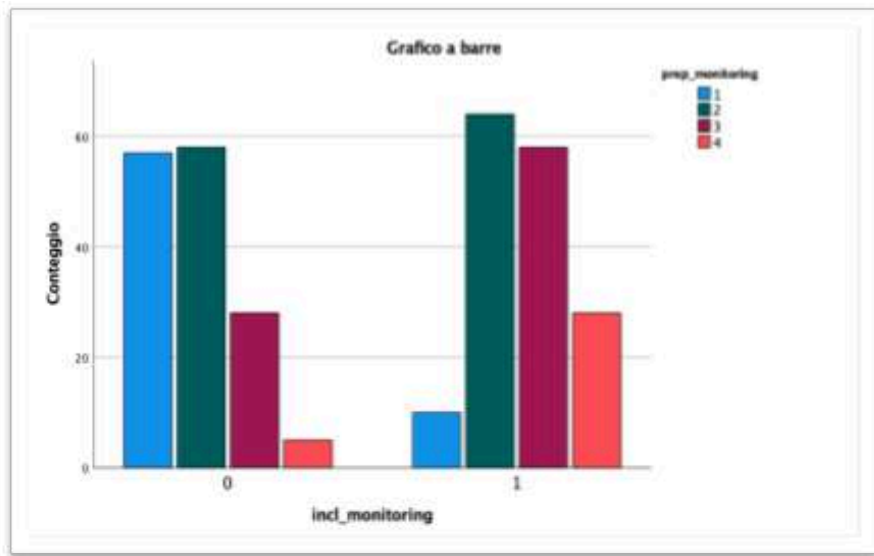
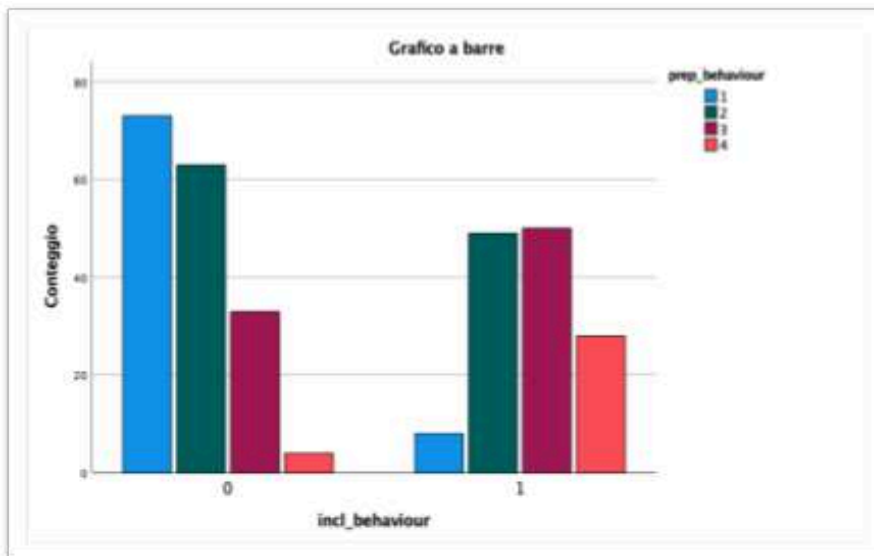
| Data re-processing summary                     |        |                        |              |             |        |             |        |
|------------------------------------------------|--------|------------------------|--------------|-------------|--------|-------------|--------|
|                                                | Casi   |                        |              |             |        |             |        |
|                                                | Valido |                        | Mancante     |             | Totale |             |        |
|                                                | N      | Percentuale            | N            | Percentuale | N      | Percentuale |        |
| incl_subject<br>*                              | 30     | 100,0%                 | 0            | 0,0%        | 308    | 100,0%      |        |
| prep_subject                                   | 8      |                        |              |             |        |             |        |
|                                                |        |                        |              |             |        |             |        |
| Contingency table: incl_subject * prep_subject |        |                        |              |             |        |             |        |
|                                                |        |                        | prep_subject |             |        |             | Totale |
|                                                |        |                        | 1            | 2           | 3      | 4           |        |
| incl_subject                                   | 0      | Conteggio              | 9            | 22          | 18     | 2           | 51     |
|                                                |        | Conteggio previsto     | 2,2          | 13,2        | 20,5   | 15,1        | 51,0   |
|                                                |        | % in incl_subject      | 17,6%        | 43,1%       | 35,3%  | 3,9%        | 100,0% |
|                                                |        | % in prep_subject      | 69,2%        | 27,5%       | 14,5%  | 2,2%        | 16,6%  |
|                                                |        | % del totale           | 2,9%         | 7,1%        | 5,8%   | 0,6%        | 16,6%  |
|                                                |        | Residuo standardizzato | 4,7          | 2,4         | -0,6   | -3,4        |        |
|                                                | 1      | Conteggio              | 4            | 58          | 106    | 89          | 257    |
|                                                |        | Conteggio previsto     | 10,8         | 66,8        | 103,5  | 75,9        | 257,0  |
|                                                |        | % in incl_subject      | 1,6%         | 22,6%       | 41,2%  | 34,6%       | 100,0% |

|        |  |                           |            |        |        |        |        |
|--------|--|---------------------------|------------|--------|--------|--------|--------|
|        |  | % in<br>prep_subject      | 30,8%      | 72,5%  | 85,5%  | 97,8%  | 83,4%  |
|        |  |                           |            |        |        |        |        |
|        |  |                           |            |        |        |        |        |
|        |  | % del totale              | 1,3%       | 18,8%  | 34,4%  | 28,9%  | 83,4%  |
|        |  | Residuo<br>standardizzato | -2,1       | -1,1   | 0,2    | 1,5    |        |
| Totale |  | Conteggio                 | 13         | 80     | 124    | 91     | 308    |
|        |  | Conteggio<br>previsto     | 13,0       | 80,0   | 124,0  | 91,0   | 308,0  |
|        |  | % in<br>incl_subject      | 4,2%       | 26,0%  | 40,3%  | 29,5%  | 100,0% |
|        |  | % in<br>prep_subject      | 100,0<br>% | 100,0% | 100,0% | 100,0% | 100,0% |
|        |  | % del totale              | 4,2%       | 26,0%  | 40,3%  | 29,5%  | 100,0% |

## Contingency bar graph: incl\_subject \* prep\_subject







## SECTION 2: CURRENT WORK

Item 7. What is your employment status as a teacher?

| Statistiche     |          |       |
|-----------------|----------|-------|
| Emploiment      |          |       |
| N               | Valido   | 308   |
|                 | Mancante | 0     |
| Media           |          | 0,34  |
| Mediana         |          | 0,00  |
| Deviazione std. |          | 0,725 |
| Percentili      | 25       | 0,00  |
|                 | 50       | 0,00  |
|                 | 75       | 0,00  |

| Emploiment |        |           |             |                    |                        |
|------------|--------|-----------|-------------|--------------------|------------------------|
|            |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido     | 0      | 249       | 80,8        | 80,8               | 80,8                   |
|            | 1      | 13        | 4,2         | 4,2                | 85,1                   |
|            | 2      | 46        | 14,9        | 14,9               | 100,0                  |
|            | Totale | 308       | 100,0       | 100,0              |                        |

**Item 8. How many years of work experience do you have, regardless of whether you worked full-time or part-time?**

|                 |          |         |
|-----------------|----------|---------|
| Statistiche     |          |         |
| Work experience |          |         |
| N               | Valido   | 307     |
|                 | Mancante | 1       |
| Media           |          | 3,2769  |
| Mediana         |          | 3,0000  |
| Deviazione std. |          | 1,22270 |
| Percentili      | 25       | 3,0000  |
|                 | 50       | 3,0000  |
|                 | 75       | 4,0000  |

|                 |
|-----------------|
| Work experience |
|-----------------|

|          |         | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
|----------|---------|-----------|-------------|--------------------|------------------------|
| Valido   | 1,00    | 35        | 11,4        | 11,4               | 11,4                   |
|          | 2,00    | 40        | 13,0        | 13,0               | 24,4                   |
|          | 3,00    | 90        | 29,2        | 29,3               | 53,7                   |
|          | 4,00    | 89        | 28,9        | 29,0               | 82,7                   |
|          | 5,00    | 53        | 17,2        | 17,3               | 100,0                  |
|          | Totale  | 307       | 99,7        | 100,0              |                        |
| Mancante | Sistema | 1         | 0,3         |                    |                        |
| Totale   |         | 308       | 100,0       |                    |                        |

### Statistics

| Statistiche     |          |                                    |                            |                                              |                                       |
|-----------------|----------|------------------------------------|----------------------------|----------------------------------------------|---------------------------------------|
|                 |          | Actual_school_year_work_experience | Total_year_work_experience | Years_work_experience_other_educational_role | Years_work_experience_non_educational |
| N               | Valido   | 308                                | 308                        | 308                                          | 308                                   |
|                 | Mancante | 0                                  | 0                          | 0                                            | 0                                     |
| Media           |          | 10,410                             | 17,800                     | 3,41                                         | 3,490                                 |
| Mediana         |          | 6,000                              | 17,000                     | 0,00                                         | 1,000                                 |
| Deviazione std. |          | 10,2470                            | 11,5235                    | 6,370                                        | 5,9493                                |



|            |    |        |        |      |       |
|------------|----|--------|--------|------|-------|
| Percentili | 25 | 3,000  | 7,000  | 0,00 | 0,000 |
|            | 50 | 6,000  | 17,000 | 0,00 | 1,000 |
|            | 75 | 15,000 | 27,000 | 4,00 | 5,000 |

## Frequencies tables for each item

| Item 8.1 Actual_school_year_work_experience |     |           |             |                    |                        |
|---------------------------------------------|-----|-----------|-------------|--------------------|------------------------|
|                                             |     | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                                      | ,0  | 4         | 1,3         | 1,3                | 1,3                    |
|                                             | ,5  | 1         | 0,3         | 0,3                | 1,6                    |
|                                             | ,6  | 1         | 0,3         | 0,3                | 1,9                    |
|                                             | ,7  | 1         | 0,3         | 0,3                | 2,3                    |
|                                             | 1,0 | 39        | 12,7        | 12,7               | 14,9                   |
|                                             | 2,0 | 29        | 9,4         | 9,4                | 24,4                   |
|                                             | 2,5 | 1         | 0,3         | 0,3                | 24,7                   |
|                                             | 3,0 | 26        | 8,4         | 8,4                | 33,1                   |
|                                             | 4,0 | 23        | 7,5         | 7,5                | 40,6                   |

|  |      |    |     |     |      |
|--|------|----|-----|-----|------|
|  | 5,0  | 22 | 7,1 | 7,1 | 47,7 |
|  | 6,0  | 10 | 3,2 | 3,2 | 51,0 |
|  | 7,0  | 10 | 3,2 | 3,2 | 54,2 |
|  | 8,0  | 7  | 2,3 | 2,3 | 56,5 |
|  | 9,0  | 8  | 2,6 | 2,6 | 59,1 |
|  | 10,0 | 15 | 4,9 | 4,9 | 64,0 |
|  | 11,0 | 10 | 3,2 | 3,2 | 67,2 |
|  | 12,0 | 7  | 2,3 | 2,3 | 69,5 |
|  | 13,0 | 9  | 2,9 | 2,9 | 72,4 |
|  | 14,0 | 3  | 1,0 | 1,0 | 73,4 |
|  | 15,0 | 6  | 1,9 | 1,9 | 75,3 |
|  | 16,0 | 5  | 1,6 | 1,6 | 76,9 |
|  | 17,0 | 5  | 1,6 | 1,6 | 78,6 |
|  | 18,0 | 7  | 2,3 | 2,3 | 80,8 |
|  | 19,0 | 1  | 0,3 | 0,3 | 81,2 |
|  | 20,0 | 6  | 1,9 | 1,9 | 83,1 |
|  | 21,0 | 2  | 0,6 | 0,6 | 83,8 |
|  | 22,0 | 3  | 1,0 | 1,0 | 84,7 |
|  | 23,0 | 3  | 1,0 | 1,0 | 85,7 |
|  | 24,0 | 3  | 1,0 | 1,0 | 86,7 |
|  | 25,0 | 4  | 1,3 | 1,3 | 88,0 |
|  | 26,0 | 5  | 1,6 | 1,6 | 89,6 |
|  | 27,0 | 2  | 0,6 | 0,6 | 90,3 |

|  |        |     |       |       |       |
|--|--------|-----|-------|-------|-------|
|  | 29,0   | 1   | 0,3   | 0,3   | 90,6  |
|  | 30,0   | 6   | 1,9   | 1,9   | 92,5  |
|  | 31,0   | 3   | 1,0   | 1,0   | 93,5  |
|  | 32,0   | 3   | 1,0   | 1,0   | 94,5  |
|  | 33,0   | 3   | 1,0   | 1,0   | 95,5  |
|  | 34,0   | 4   | 1,3   | 1,3   | 96,8  |
|  | 35,0   | 3   | 1,0   | 1,0   | 97,7  |
|  | 36,0   | 1   | 0,3   | 0,3   | 98,1  |
|  | 37,0   | 1   | 0,3   | 0,3   | 98,4  |
|  | 38,0   | 1   | 0,3   | 0,3   | 98,7  |
|  | 40,0   | 3   | 1,0   | 1,0   | 99,7  |
|  | 42,0   | 1   | 0,3   | 0,3   | 100,0 |
|  | Totale | 308 | 100,0 | 100,0 |       |

| Item 8.2 Total_year_work_experience |     |           |             |                    |                        |
|-------------------------------------|-----|-----------|-------------|--------------------|------------------------|
|                                     |     | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                              | ,0  | 3         | 1,0         | 1,0                | 1,0                    |
|                                     | 1,0 | 5         | 1,6         | 1,6                | 2,6                    |
|                                     | 2,0 | 8         | 2,6         | 2,6                | 5,2                    |
|                                     | 2,8 | 1         | 0,3         | 0,3                | 5,5                    |
|                                     | 3,0 | 18        | 5,8         | 5,8                | 11,4                   |
|                                     | 3,5 | 1         | 0,3         | 0,3                | 11,7                   |

|  |      |    |     |     |      |
|--|------|----|-----|-----|------|
|  | 4,0  | 11 | 3,6 | 3,6 | 15,3 |
|  | 5,0  | 16 | 5,2 | 5,2 | 20,5 |
|  | 6,0  | 13 | 4,2 | 4,2 | 24,7 |
|  | 7,0  | 8  | 2,6 | 2,6 | 27,3 |
|  | 8,0  | 8  | 2,6 | 2,6 | 29,9 |
|  | 9,0  | 6  | 1,9 | 1,9 | 31,8 |
|  | 10,0 | 9  | 2,9 | 2,9 | 34,7 |
|  | 11,0 | 4  | 1,3 | 1,3 | 36,0 |
|  | 12,0 | 4  | 1,3 | 1,3 | 37,3 |
|  | 13,0 | 3  | 1,0 | 1,0 | 38,3 |
|  | 14,0 | 4  | 1,3 | 1,3 | 39,6 |
|  | 15,0 | 14 | 4,5 | 4,5 | 44,2 |
|  | 16,0 | 10 | 3,2 | 3,2 | 47,4 |
|  | 17,0 | 10 | 3,2 | 3,2 | 50,6 |
|  | 18,0 | 10 | 3,2 | 3,2 | 53,9 |
|  | 19,0 | 6  | 1,9 | 1,9 | 55,8 |
|  | 20,0 | 21 | 6,8 | 6,8 | 62,7 |
|  | 21,0 | 9  | 2,9 | 2,9 | 65,6 |
|  | 22,0 | 6  | 1,9 | 1,9 | 67,5 |
|  | 23,0 | 4  | 1,3 | 1,3 | 68,8 |
|  | 24,0 | 1  | 0,3 | 0,3 | 69,2 |
|  | 25,0 | 8  | 2,6 | 2,6 | 71,8 |
|  | 26,0 | 8  | 2,6 | 2,6 | 74,4 |

|  |        |     |       |       |       |
|--|--------|-----|-------|-------|-------|
|  | 27,0   | 4   | 1,3   | 1,3   | 75,6  |
|  | 28,0   | 3   | 1,0   | 1,0   | 76,6  |
|  | 29,0   | 2   | 0,6   | 0,6   | 77,3  |
|  | 30,0   | 17  | 5,5   | 5,5   | 82,8  |
|  | 31,0   | 1   | 0,3   | 0,3   | 83,1  |
|  | 32,0   | 8   | 2,6   | 2,6   | 85,7  |
|  | 33,0   | 7   | 2,3   | 2,3   | 88,0  |
|  | 34,0   | 4   | 1,3   | 1,3   | 89,3  |
|  | 35,0   | 11  | 3,6   | 3,6   | 92,9  |
|  | 36,0   | 6   | 1,9   | 1,9   | 94,8  |
|  | 37,0   | 2   | 0,6   | 0,6   | 95,5  |
|  | 38,0   | 2   | 0,6   | 0,6   | 96,1  |
|  | 39,0   | 4   | 1,3   | 1,3   | 97,4  |
|  | 40,0   | 4   | 1,3   | 1,3   | 98,7  |
|  | 42,0   | 4   | 1,3   | 1,3   | 100,0 |
|  | Totale | 308 | 100,0 | 100,0 |       |

| Item 8.3 Years_work_experience_other_educational_role |   |           |             |                    |                        |
|-------------------------------------------------------|---|-----------|-------------|--------------------|------------------------|
|                                                       |   | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                                                | 0 | 155       | 50,3        | 50,3               | 50,3                   |
|                                                       | 1 | 28        | 9,1         | 9,1                | 59,4                   |

|  |    |    |     |     |      |
|--|----|----|-----|-----|------|
|  | 2  | 21 | 6,8 | 6,8 | 66,2 |
|  | 3  | 20 | 6,5 | 6,5 | 72,7 |
|  | 4  | 15 | 4,9 | 4,9 | 77,6 |
|  | 5  | 18 | 5,8 | 5,8 | 83,4 |
|  | 6  | 5  | 1,6 | 1,6 | 85,1 |
|  | 7  | 6  | 1,9 | 1,9 | 87,0 |
|  | 8  | 3  | 1,0 | 1,0 | 88,0 |
|  | 9  | 1  | 0,3 | 0,3 | 88,3 |
|  | 10 | 5  | 1,6 | 1,6 | 89,9 |
|  | 11 | 1  | 0,3 | 0,3 | 90,3 |
|  | 12 | 7  | 2,3 | 2,3 | 92,5 |
|  | 14 | 2  | 0,6 | 0,6 | 93,2 |
|  | 15 | 1  | 0,3 | 0,3 | 93,5 |
|  | 17 | 1  | 0,3 | 0,3 | 93,8 |
|  | 18 | 1  | 0,3 | 0,3 | 94,2 |
|  | 19 | 1  | 0,3 | 0,3 | 94,5 |
|  | 20 | 6  | 1,9 | 1,9 | 96,4 |
|  | 21 | 1  | 0,3 | 0,3 | 96,8 |
|  | 23 | 1  | 0,3 | 0,3 | 97,1 |
|  | 24 | 1  | 0,3 | 0,3 | 97,4 |
|  | 25 | 2  | 0,6 | 0,6 | 98,1 |
|  | 27 | 3  | 1,0 | 1,0 | 99,0 |
|  | 32 | 1  | 0,3 | 0,3 | 99,4 |

|  |        |     |       |       |       |
|--|--------|-----|-------|-------|-------|
|  | 33     | 1   | 0,3   | 0,3   | 99,7  |
|  | 40     | 1   | 0,3   | 0,3   | 100,0 |
|  | Totale | 308 | 100,0 | 100,0 |       |

| Item 8.4 Years_work_experience_non_educational |      |           |             |                    |                        |
|------------------------------------------------|------|-----------|-------------|--------------------|------------------------|
|                                                |      | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                                         | ,0   | 147       | 47,7        | 47,7               | 47,7                   |
|                                                | ,5   | 1         | 0,3         | 0,3                | 48,1                   |
|                                                | 1,0  | 37        | 12,0        | 12,0               | 60,1                   |
|                                                | 1,5  | 2         | 0,6         | 0,6                | 60,7                   |
|                                                | 2,0  | 17        | 5,5         | 5,5                | 66,2                   |
|                                                | 3,0  | 15        | 4,9         | 4,9                | 71,1                   |
|                                                | 4,0  | 9         | 2,9         | 2,9                | 74,0                   |
|                                                | 4,5  | 1         | 0,3         | 0,3                | 74,4                   |
|                                                | 5,0  | 14        | 4,5         | 4,5                | 78,9                   |
|                                                | 6,0  | 9         | 2,9         | 2,9                | 81,8                   |
|                                                | 7,0  | 5         | 1,6         | 1,6                | 83,4                   |
|                                                | 8,0  | 3         | 1,0         | 1,0                | 84,4                   |
|                                                | 9,0  | 3         | 1,0         | 1,0                | 85,4                   |
|                                                | 10,0 | 14        | 4,5         | 4,5                | 89,9                   |

|  |        |     |       |       |       |
|--|--------|-----|-------|-------|-------|
|  | 11,0   | 3   | 1,0   | 1,0   | 90,9  |
|  | 12,0   | 4   | 1,3   | 1,3   | 92,2  |
|  | 13,0   | 2   | 0,6   | 0,6   | 92,9  |
|  | 14,0   | 1   | 0,3   | 0,3   | 93,2  |
|  | 15,0   | 2   | 0,6   | 0,6   | 93,8  |
|  | 16,0   | 3   | 1,0   | 1,0   | 94,8  |
|  | 17,0   | 3   | 1,0   | 1,0   | 95,8  |
|  | 18,0   | 1   | 0,3   | 0,3   | 96,1  |
|  | 20,0   | 4   | 1,3   | 1,3   | 97,4  |
|  | 23,0   | 1   | 0,3   | 0,3   | 97,7  |
|  | 25,0   | 3   | 1,0   | 1,0   | 98,7  |
|  | 27,0   | 1   | 0,3   | 0,3   | 99,0  |
|  | 28,0   | 1   | 0,3   | 0,3   | 99,4  |
|  | 30,0   | 1   | 0,3   | 0,3   | 99,7  |
|  | 34,0   | 1   | 0,3   | 0,3   | 100,0 |
|  | Totale | 308 | 100,0 | 100,0 |       |

## SECTION 3: PROFESSIONAL DEVELOPMENT

Item 9. During the last 12 months did you participate in any of the following professional development activities?

Descriptive statistics



|                                       | N     | Minimo | Massimo | Somma | Media | Deviazione std. |
|---------------------------------------|-------|--------|---------|-------|-------|-----------------|
| PD_recent_courses_in_person           | 308   | 0      | 1       | 232   | 0,75  | <b>0,432</b>    |
| PD_recent_courses_online              | 308   | 0      | 1       | 264   | 0,86  | <b>0,350</b>    |
| PD_recent_conferences_with_researches | 308   | 0      | 1       | 162   | 0,53  | <b>0,500</b>    |
| PD_recent_formal_programs             | 308   | 0      | 1       | 58    | 0,19  | <b>0,392</b>    |
| PD_recent_visits_to_schools           | 308   | 0      | 1       | 86    | 0,28  | <b>0,449</b>    |
| PD_recent_visits_business_NGO         | 30846 | 0      | 1       | 35    | 0,11  | <b>0,318</b>    |
| PD_coaching                           | 308   | 0      | 1       | 103   | 0,33  | <b>0,473</b>    |
| PD_network                            | 308   | 0      | 1       | 132   | 0,43  | <b>0,496</b>    |
| PD_literature                         | 308   | 0      | 1       | 210   | 0,68  | <b>0,467</b>    |
| PD_other                              | 308   | 0      | 1       | 129   | 0,42  | <b>0,494</b>    |
| Valid (listwise)                      | 308   |        |         |       |       |                 |

**Item 10. Please think about the professional development activity that had the greatest positive impact on your teaching during the last 12 months. Did it possess any of the following characteristics?**

| Statistiche descrittive             |     |        |         |       |       |                 |
|-------------------------------------|-----|--------|---------|-------|-------|-----------------|
|                                     | N   | Minimo | Massimo | Somma | Media | Deviazione std. |
| Chr_HI_PD_prior                     | 308 | 0      | 1       | 269   | 0,87  | 0,333           |
| Chr_HI_PD_needs                     | 308 | 0      | 1       | 260   | 0,84  | 0,363           |
| Chr_HI_PD_structure                 | 308 | 0      | 1       | 244   | 0,79  | 0,406           |
| Chr_HI_PD_content                   | 308 | 0      | 1       | 212   | 0,69  | 0,464           |
| Chr_HI_PD_active                    | 308 | 0      | 1       | 261   | 0,85  | 0,360           |
| Chr_HI_PD_collaborative             | 308 | 0      | 1       | 235   | 0,76  | 0,426           |
| Chr_HI_PD_apply                     | 308 | 0      | 1       | 267   | 0,87  | 0,340           |
| Chr_HI_PD_follow_up                 | 308 | 0      | 1       | 140   | 0,45  | 0,499           |
| Chr_HI_PD_in_school                 | 308 | 0      | 1       | 122   | 0,40  | 0,490           |
| Chr_HI_PD_colleagues                | 308 | 0      | 1       | 83    | 0,27  | 0,444           |
| Chr_HI_PD_extended                  | 308 | 0      | 1       | 186   | 0,60  | 0,490           |
| Chr_HI_PD_innovation                | 308 | 0      | 1       | 212   | 0,69  | 0,464           |
| Numero di casi validi<br>(listwise) | 308 |        |         |       |       |                 |

**Item 11. How strongly do you agree or disagree that the following present barriers to your participation in professional development?**

**Statistics**

|                        |                      | Barriers_prerequ<br>isites | Barriers_expe<br>nsive | Barriers_no_sup<br>port | Barriers_sched<br>ule | Barriers_family | Barriers_not_rel<br>evant | Barriers_no_ince<br>ntives |
|------------------------|----------------------|----------------------------|------------------------|-------------------------|-----------------------|-----------------|---------------------------|----------------------------|
| <b>N</b>               | <b>Valido</b>        | 308                        | 308                    | 308                     | 308                   | 308             | 308                       | 308                        |
|                        | <b>Manca<br/>nte</b> | 0                          | 0                      | 0                       | 0                     | 0               | 0                         | 0                          |
| <b>Media</b>           |                      | <b>1,77</b>                | <b>2,44</b>            | <b>2,19</b>             | <b>2,53</b>           | <b>2,40</b>     | <b>1,99</b>               | <b>2,52</b>                |
| <b>Mediana</b>         |                      | 2,00                       | 2,00                   | 2,00                    | 3,00                  | 2,00            | 2,00                      | 3,00                       |
| <b>Deviazione std.</b> |                      | <b>0,809</b>               | <b>0,920</b>           | <b>0,907</b>            | <b>0,893</b>          | <b>0,916</b>    | <b>0,854</b>              | <b>1,010</b>               |
| <b>Percen<br/>tili</b> | <b>25</b>            | 1,00                       | 2,00                   | 1,25                    | 2,00                  | 2,00            | 1,00                      | 2,00                       |
|                        | <b>50</b>            | 2,00                       | 2,00                   | 2,00                    | 3,00                  | 2,00            | 2,00                      | 3,00                       |
|                        | <b>75</b>            | 2,00                       | 3,00                   | 3,00                    | 3,00                  | 3,00            | 2,00                      | 3,00                       |

### Frequencies tables for each item – BARRIERS FOR PD

| Item 11.1 Barriers_prerequisites |   |           |             |                    |                        |
|----------------------------------|---|-----------|-------------|--------------------|------------------------|
|                                  |   | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                           | 1 | 136       | 44,2        | 44,2               | 44,2                   |
|                                  | 2 | 117       | 38,0        | 38,0               | 82,1                   |

|                               |        |           |             |                    |                        |
|-------------------------------|--------|-----------|-------------|--------------------|------------------------|
|                               | 3      | 46        | 14,9        | 14,9               | 97,1                   |
|                               | 4      | 9         | 2,9         | 2,9                | 100,0                  |
|                               | Totale | 308       | 100,0       | 100,0              |                        |
|                               |        |           |             |                    |                        |
| Item 11.2 Barriers_expensive  |        |           |             |                    |                        |
|                               |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                        | 1      | 51        | 16,6        | 16,6               | 16,6                   |
|                               | 2      | 110       | 35,7        | 35,7               | 52,3                   |
|                               | 3      | 106       | 34,4        | 34,4               | 86,7                   |
|                               | 4      | 41        | 13,3        | 13,3               | 100,0                  |
|                               | Totale | 308       | 100,0       | 100,0              |                        |
|                               |        |           |             |                    |                        |
| Item 11.3 Barriers_no_support |        |           |             |                    |                        |
|                               |        | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valido                        | 1      | 77        | 25,0        | 25,0               | 25,0                   |
|                               | 2      | 123       | 39,9        | 39,9               | 64,9                   |
|                               | 3      | 82        | 26,6        | 26,6               | 91,6                   |
|                               | 4      | 26        | 8,4         | 8,4                | 100,0                  |
|                               | Totale | 308       | 100,0       | 100,0              |                        |

|                                        |               |                  |                    |                           |                               |
|----------------------------------------|---------------|------------------|--------------------|---------------------------|-------------------------------|
|                                        |               |                  |                    |                           |                               |
| <b>Barriers_schedule</b>               |               |                  |                    |                           |                               |
|                                        |               | <b>Frequenza</b> | <b>Percentuale</b> | <b>Percentuale valida</b> | <b>Percentuale cumulativa</b> |
| <b>Valido</b>                          | <b>1</b>      | <b>39</b>        | <b>12,7</b>        | <b>12,7</b>               | <b>12,7</b>                   |
|                                        | <b>2</b>      | <b>113</b>       | <b>36,7</b>        | <b>36,7</b>               | <b>49,4</b>                   |
|                                        | <b>3</b>      | <b>111</b>       | <b>36,0</b>        | <b>36,0</b>               | <b>85,4</b>                   |
|                                        | <b>4</b>      | <b>45</b>        | <b>14,6</b>        | <b>14,6</b>               | <b>100,0</b>                  |
|                                        | <b>Totale</b> | <b>308</b>       | <b>100,0</b>       | <b>100,0</b>              |                               |
|                                        |               |                  |                    |                           |                               |
| <b>Item 11.4 Barriers_family</b>       |               |                  |                    |                           |                               |
|                                        |               | <b>Frequenza</b> | <b>Percentuale</b> | <b>Percentuale valida</b> | <b>Percentuale cumulativa</b> |
| <b>Valid</b>                           | <b>1</b>      | 53               | 17,2               | 17,2                      | <b>17,2</b>                   |
|                                        | <b>2</b>      | 119              | 38,6               | 38,6                      | <b>55,8</b>                   |
|                                        | <b>3</b>      | 97               | 31,5               | 31,5                      | <b>87,3</b>                   |
|                                        | <b>4</b>      | 39               | 12,7               | 12,7                      | <b>100,0</b>                  |
|                                        | <b>Total</b>  | <b>308</b>       | <b>100,0</b>       | <b>100,0</b>              |                               |
|                                        |               |                  |                    |                           |                               |
| <b>Item 11.5 Barriers_not_relevant</b> |               |                  |                    |                           |                               |

|                                  |       | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
|----------------------------------|-------|-----------|-------------|--------------------|------------------------|
| Valid                            | 1     | 95        | 30,8        | 30,8               | 30,8                   |
|                                  | 2     | 138       | 44,8        | 44,8               | 75,6                   |
|                                  | 3     | 57        | 18,5        | 18,5               | 94,2                   |
|                                  | 4     | 18        | 5,8         | 5,8                | 100,0                  |
|                                  | Total | 308       | 100,0       | 100,0              |                        |
|                                  |       |           |             |                    |                        |
| Item 11.6 Barriers_no_incentives |       |           |             |                    |                        |
|                                  |       | Frequenza | Percentuale | Percentuale valida | Percentuale cumulativa |
| Valid                            | 1     | 59        | 19,2        | 19,2               | 19,2                   |
|                                  | 2     | 89        | 28,9        | 28,9               | 48,1                   |
|                                  | 3     | 101       | 32,8        | 32,8               | 80,8                   |
|                                  | 4     | 59        | 19,2        | 19,2               | 100,0                  |
|                                  | Total | 308       | 100,0       | 100,0              |                        |

## SECTION 4: INNOVATION

[illegible]

|                    |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | Missing | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Media              |         | 3,71  | 4,17  | 4,29  | 3,72  | 4,00  | 4,31  | 4,33  | 4,48  | 4,31  | 4,07  | 3,88  | 4,38  | 3,86  | 3,95  | 4,13  | 3,55  |
| Median             |         | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 5,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  |
| Standard deviation |         | 0,809 | 0,773 | 0,696 | 0,891 | 0,825 | 0,666 | 0,677 | 0,742 | 0,749 | 0,983 | 0,874 | 0,718 | 0,830 | 0,837 | 0,825 | 0,995 |
| Percentile         | 25      | 3,00  | 4,00  | 4,00  | 3,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 3,00  | 4,00  | 3,00  | 3,25  | 4,00  | 3,00  |
|                    | 50      | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 5,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  |
|                    | 75      | 4,00  | 5,00  | 5,00  | 4,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 4,00  | 5,00  | 4,00  | 5,00  | 5,00  | 4,00  |

## Frequencies tables for each item - INNOVATION

### Item12.1 My students look forward to my class

| Innovation_students_appreciation |                     |           |            |                  |                       |
|----------------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                                  |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                            | 1 Strongly disagree | 3         | 1,0        | 1,0              | 1,0                   |
|                                  | 2 Disagree          | 13        | 4,2        | 4,2              | 5,2                   |
|                                  | 3 Neutral           | 100       | 32,5       | 32,5             | 37,7                  |
|                                  | 4 Agree             | 145       | 47,1       | 47,1             | 84,7                  |
|                                  | 5 Strongly agree    | 47        | 15,3       | 15,3             | 100,0                 |
|                                  | Total               | 308       | 100,0      | 100,0            |                       |



**Item 12.2 I always like to use different approaches for the same topic**

| Innovation_diff_approaches |                     |           |            |                  |                       |
|----------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                            |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1 Strongly disagree | 6         | 1,9        | 1,9              | 1,9                   |
|                            | 2 Disagree          | 4         | 1,3        | 1,3              | 3,2                   |
|                            | 3 Neutral           | 22        | 7,1        | 7,1              | 10,4                  |
|                            | 4 Agree             | 176       | 57,1       | 57,1             | 67,5                  |
|                            | 5 Strongly agree    | 100       | 32,5       | 32,5             | 100,0                 |
|                            | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.3 I like to use different ideas**

| Innovation_diff_ideas |                     |           |            |                  |                       |
|-----------------------|---------------------|-----------|------------|------------------|-----------------------|
|                       |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                 | 1 Strongly disagree | 3         | 1,0        | 1,0              | 1,0                   |
|                       | 2 Disagree          | 4         | 1,3        | 1,3              | 2,3                   |
|                       | 3 Neutral           | 13        | 4,2        | 4,2              | 6,5                   |
|                       | 4 Agree             | 170       | 55,2       | 55,2             | 61,7                  |
|                       | 5 Strongly agree    | 118       | 38,3       | 38,3             | 100,0                 |
|                       | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.4 I can easily find replacement for things that are insufficient.**

| Innovation_replacement |                     |           |            |                  |                       |
|------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                        |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                  | 1 Strongly disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                        | 2 Disagree          | 34        | 11,0       | 11,0             | 11,7                  |
|                        | 3 Neutral           | 63        | 20,5       | 20,5             | 32,1                  |
|                        | 4 Agree             | 158       | 51,3       | 51,3             | 83,4                  |
|                        | 5 Strongly agree    | 51        | 16,6       | 16,6             | 100,0                 |

|  |       |     |       |       |  |
|--|-------|-----|-------|-------|--|
|  | Total | 308 | 100,0 | 100,0 |  |
|--|-------|-----|-------|-------|--|

**Item 12.5 I like to organize activities that have never been undertaken.**

| Innovation_organize |                     |           |            |                  |                       |
|---------------------|---------------------|-----------|------------|------------------|-----------------------|
|                     |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid               | 1 Strongly disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                     | 2 Disagree          | 13        | 4,2        | 4,2              | 4,9                   |
|                     | 3 Neutral           | 54        | 17,5       | 17,5             | 22,4                  |
|                     | 4 Agree             | 154       | 50,0       | 50,0             | 72,4                  |
|                     | 5 Strongly agree    | 85        | 27,6       | 27,6             | 100,0                 |
|                     | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.6 I like to find new ways to teach a difficult topic to enhance students' understanding**

| Innovation_difficult_to pic |                     |           |            |                  |                       |
|-----------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                             |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1 Strongly disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                             | 2 Disagree          | 3         | 1,0        | 1,0              | 1,6                   |
|                             | 3 Neutral           | 14        | 4,5        | 4,5              | 6,2                   |
|                             | 4 Agree             | 167       | 54,2       | 54,2             | 60,4                  |
|                             | 5 Strongly agree    | 122       | 39,6       | 39,6             | 100,0                 |
|                             | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.7 I like to find new ways to make my students understand what has been taught**

| Innovation_understand |                     |           |            |                  |                       |
|-----------------------|---------------------|-----------|------------|------------------|-----------------------|
|                       |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                 | 1 Strongly disagree | 2         | 0,6        | 0,6              | 0,6                   |

|  |                  |     |       |       |       |
|--|------------------|-----|-------|-------|-------|
|  | 2 Disagree       | 4   | 1,3   | 1,3   | 1,9   |
|  | 3 Neutral        | 12  | 3,9   | 3,9   | 5,8   |
|  | 4 Agree          | 161 | 52,3  | 52,3  | 58,1  |
|  | 5 Strongly agree | 129 | 41,9  | 41,9  | 100,0 |
|  | Total            | 308 | 100,0 | 100,0 |       |

#### Item 12.8 I like to teach my classes

| Innovation_new_classes |                     |           |            |                  |                       |
|------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                        |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                  | 1 Strongly disagree | 3         | 1,0        | 1,0              | 1,0                   |
|                        | 2 Disagree          | 5         | 1,6        | 1,6              | 2,6                   |
|                        | 3 Neutral           | 13        | 4,2        | 4,2              | 6,8                   |
|                        | 4 Agree             | 106       | 34,4       | 34,4             | 41,2                  |
|                        | 5 Strongly agree    | 181       | 58,8       | 58,8             | 100,0                 |
|                        | Total               | 308       | 100,0      | 100,0            |                       |

#### Item 12.9 I like to try to use new teaching approaches

| Innovation_new_approaches |                     |           |            |                  |                       |
|---------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                           |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                     | 1 Strongly disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                           | 2 Disagree          | 6         | 1,9        | 1,9              | 2,6                   |
|                           | 3 Neutral           | 23        | 7,5        | 7,5              | 10,1                  |
|                           | 4 Agree             | 140       | 45,5       | 45,5             | 55,5                  |
|                           | 5 Strongly agree    | 137       | 44,5       | 44,5             | 100,0                 |
|                           | Total               | 308       | 100,0      | 100,0            |                       |

#### Item 12.10 I like to search for new ways to entertain my students

| Innovation_entertain |  |           |            |                  |                       |
|----------------------|--|-----------|------------|------------------|-----------------------|
|                      |  | Frequency | Percentage | Valid percentage | Cumulative percentage |

|       |                     |     |       |       |       |
|-------|---------------------|-----|-------|-------|-------|
| Valid | 1 Strongly disagree | 8   | 2,6   | 2,6   | 2,6   |
|       | 2 Disagree          | 16  | 5,2   | 5,2   | 7,8   |
|       | 3 Neutral           | 42  | 13,6  | 13,6  | 21,4  |
|       | 4 Agree             | 122 | 39,6  | 39,6  | 61,0  |
|       | 5 Strongly agree    | 120 | 39,0  | 39,0  | 100,0 |
|       | Total               | 308 | 100,0 | 100,0 |       |

**Item 12.11 I always look forward to teach my classes.**

| Innovation_look_forward |                     |           |            |                  |                       |
|-------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                         |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                   | 1 Strongly disagree | 7         | 2,3        | 2,3              | 2,3                   |
|                         | 2 Disagree          | 11        | 3,6        | 3,6              | 5,8                   |
|                         | 3 Neutral           | 63        | 20,5       | 20,5             | 26,3                  |
|                         | 4 Agree             | 158       | 51,3       | 51,3             | 77,6                  |
|                         | 5 Strongly agree    | 69        | 22,4       | 22,4             | 100,0                 |
|                         | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.12I try to use teaching techniques that worked in the past.**

| Innovation_past_techniques |                     |           |            |                  |                       |
|----------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                            |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1 Strongly disagree | 3         | 1,0        | 1,0              | 1,0                   |
|                            | 2 Disagree          | 15        | 4,9        | 4,9              | 5,8                   |
|                            | 3 Neutral           | 68        | 22,1       | 22,1             | 27,9                  |
|                            | 4 Agree             | 159       | 51,6       | 51,6             | 79,5                  |
|                            | 5 Strongly agree    | 63        | 20,5       | 20,5             | 100,0                 |
|                            | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.13 I have a specific reason for choosing each teaching technique I use in class.**

| Innovation_reason_techniques |
|------------------------------|
|------------------------------|

|       |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
|-------|---------------------|-----------|------------|------------------|-----------------------|
| Valid | 1 Strongly disagree | 5         | 1,6        | 1,6              | 1,6                   |
|       | 2 Disagree          | 7         | 2,3        | 2,3              | 3,9                   |
|       | 3 Neutral           | 65        | 21,1       | 21,1             | 25,0                  |
|       | 4 Agree             | 153       | 49,7       | 49,7             | 74,7                  |
|       | 5 Strongly agree    | 78        | 25,3       | 25,3             | 100,0                 |
|       | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.14 I am aware of what teaching techniques I use while I am teaching**

| Innovation_aware |                     |           |            |                  |                       |
|------------------|---------------------|-----------|------------|------------------|-----------------------|
|                  |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid            | 1 Strongly disagree | 4         | 1,3        | 1,3              | 1,3                   |
|                  | 2 Disagree          | 9         | 2,9        | 2,9              | 4,2                   |
|                  | 3 Neutral           | 36        | 11,7       | 11,7             | 15,9                  |
|                  | 4 Agree             | 153       | 49,7       | 49,7             | 65,6                  |
|                  | 5 Strongly agree    | 106       | 34,4       | 34,4             | 100,0                 |
|                  | Total               | 308       | 100,0      | 100,0            |                       |

**Item 12.15 I use helpful teaching techniques automatically**

| Innovation_helpful_tecniques |                     |           |            |                  |                       |
|------------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                              |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                        | 1 Strongly disagree | 12        | 3,9        | 3,9              | 3,9                   |
|                              | 2 Disagree          | 27        | 8,8        | 8,8              | 12,7                  |
|                              | 3 Neutral           | 99        | 32,1       | 32,1             | 44,8                  |
|                              | 4 Agree             | 119       | 38,6       | 38,6             | 83,4                  |
|                              | 5 Strongly agree    | 51        | 16,6       | 16,6             | 100,0                 |
|                              | Total               | 308       | 100,0      | 100,0            |                       |

## SECTION 5: CREATIVITY

### Statistics

| Statistics |          |                  |                        |                               |                                  |                               |                                     |                                               |                                       |                            |                              |                          |                            |                                       |                            |                        |                                  |                             |                        |                            |                              |                           |                              |
|------------|----------|------------------|------------------------|-------------------------------|----------------------------------|-------------------------------|-------------------------------------|-----------------------------------------------|---------------------------------------|----------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|----------------------------|------------------------|----------------------------------|-----------------------------|------------------------|----------------------------|------------------------------|---------------------------|------------------------------|
|            |          | Creativity_group | Creativity_share_ideas | Creativity_work_cooperatively | Creativity_ponder_students_ideas | Creativity_give_students_time | Creativity_Motivate_apply_teachings | Creativity_students-motivation_apply_learning | Creativity_students_critical_thinking | Creativity_self_evaluation | Creativity_Flexible_thinking | Creativity_academic_risk | Creativity_problem_solving | Creativity_teaching_creative_thinking | Creativity_unique_solution | Creativity_imagination | Creativity_promoting_flexibility | Creativity_new_perspectives | Creativity_connections | Creativity_become_creative | Creativity_original_thoughts | Creativity_elaborate_idea | Creativity_no_problemsolving |
| N          | Valid    | 308              | 308                    | 308                           | 308                              | 308                           | 308                                 | 308                                           | 308                                   | 308                        | 308                          | 308                      | 308                        | 308                                   | 308                        | 308                    | 308                              | 308                         | 308                    | 308                        | 308                          | 308                       | 308                          |
|            | Mis sing | 0                | 0                      | 0                             | 0                                | 0                             | 0                                   | 0                                             | 0                                     | 0                          | 0                            | 0                        | 0                          | 0                                     | 0                          | 0                      | 0                                | 0                           | 0                      | 0                          | 0                            | 0                         | 0                            |
| Me dia     |          | 4,13             | 5,01                   | 4,39                          | 4,26                             | 3,78                          | 4,70                                | 4,42                                          | 4,99                                  | 4,68                       | 4,54                         | 4,17                     | 4,44                       | 4,41                                  | 4,23                       | 4,51                   | 4,50                             | 4,62                        | 4,40                   | 4,16                       | 4,13                         | 4,34                      | 2,78                         |
| Me dia n   |          | 4,00             | 5,00                   | 5,00                          | 4,00                             | 4,00                          | 5,00                                | 5,00                                          | 5,00                                  | 5,00                       | 5,00                         | 4,00                     | 4,00                       | 5,00                                  | 4,00                       | 5,00                   | 5,00                             | 5,00                        | 5,00                   | 4,00                       | 4,00                         | 4,00                      | 3,00                         |

|                    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Standard deviation |    | 1,450 | 1,046 | 1,260 | 1,264 | 1,245 | 1,037 | 1,108 | 0,946 | 1,210 | 1,019 | 1,163 | 1,094 | 1,240 | 1,142 | 1,131 | 1,081 | 1,059 | 1,138 | 1,215 | 1,195 | 1,137 | 1,568 |
| Percentili         | 25 | 3,00  | 4,00  | 4,00  | 3,25  | 3,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 3,00  | 4,00  | 4,00  | 3,00  | 4,00  | 4,00  | 4,00  | 4,00  | 3,00  | 3,00  | 4,00  | 1,00  |
|                    | 50 | 4,00  | 5,00  | 5,00  | 4,00  | 4,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 4,00  | 4,00  | 5,00  | 4,00  | 5,00  | 5,00  | 5,00  | 5,00  | 4,00  | 4,00  | 4,00  | 3,00  |
|                    | 75 | 5,00  | 6,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 6,00  | 6,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  | 4,00  |

## FREQUENCIES TABLES

Item 13.1 I regularly give group assignments as part of the pedagogy

| Creativity_group |                       |           |            |                  |                       |
|------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                  |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid            | 1 Completely disagree | 11        | 3,6        | 3,6              | 3,6                   |
|                  | 2                     | 40        | 13,0       | 13,0             | 16,6                  |

|  |                    |     |       |       |       |
|--|--------------------|-----|-------|-------|-------|
|  | 3                  | 53  | 17,2  | 17,2  | 33,8  |
|  | 4                  | 63  | 20,5  | 20,5  | 54,2  |
|  | 5                  | 75  | 24,4  | 24,4  | 78,6  |
|  | 6 Completely agree | 66  | 21,4  | 21,4  | 100,0 |
|  | Total              | 308 | 100,0 | 100,0 |       |

**Item 13.2 The students have opportunity to share their ideas and suggestions during the class**

| Creativity_share_ideas |                       |           |            |                  |                       |
|------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                        |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                  | 1 Completely disagree | 1         | 0,3        | 0,3              | 0,3                   |
|                        | 2                     | 6         | 1,9        | 1,9              | 2,3                   |
|                        | 3                     | 24        | 7,8        | 7,8              | 10,1                  |
|                        | 4                     | 49        | 15,9       | 15,9             | 26,0                  |
|                        | 5                     | 107       | 34,7       | 34,7             | 60,7                  |
|                        | 6 Completely agree    | 121       | 39,3       | 39,3             | 100,0                 |
|                        | Total                 | 308       | 100,0      | 100,0            |                       |

**Item13.3 The students are expected to work cooperatively in group**

| Creativity_work_cooperatively |                       |           |            |                  |                       |
|-------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                               |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                         | 1 Completely disagree | 5         | 1,6        | 1,6              | 1,6                   |
|                               | 2                     | 23        | 7,5        | 7,5              | 9,1                   |
|                               | 3                     | 41        | 13,3       | 13,3             | 22,4                  |
|                               | 4                     | 84        | 27,3       | 27,3             | 49,7                  |
|                               | 5                     | 88        | 28,6       | 28,6             | 78,2                  |
|                               | 6 Completely agree    | 67        | 21,8       | 21,8             | 100,0                 |
|                               | Total                 | 308       | 100,0      | 100,0            |                       |



**Item13.4 I question the students' ideas, to ponder them to explore it further**

| <b>Creativity_ponder_students_ideas</b> |                       |           |            |                  |                       |
|-----------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                         |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                                   | 1 Completely disagree | 12        | 3,9        | 3,9              | 3,9                   |
|                                         | 2                     | 16        | 5,2        | 5,2              | 9,1                   |
|                                         | 3                     | 49        | 15,9       | 15,9             | 25,0                  |
|                                         | 4                     | 82        | 26,6       | 26,6             | 51,6                  |
|                                         | 5                     | 102       | 33,1       | 33,1             | 84,7                  |
|                                         | 6 Completely agree    | 47        | 15,3       | 15,3             | 100,0                 |
|                                         | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.5 I do not react immediately to the suggestions of the students rather give them time**

| <b>Creativity_give_students_time</b> |                       |           |            |                  |                       |
|--------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                      |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                                | 1 Completely disagree | 15        | 4,9        | 4,9              | 4,9                   |
|                                      | 2                     | 33        | 10,7       | 10,7             | 15,6                  |
|                                      | 3                     | 71        | 23,1       | 23,1             | 38,6                  |
|                                      | 4                     | 96        | 31,2       | 31,2             | 69,8                  |
|                                      | 5                     | 73        | 23,7       | 23,7             | 93,5                  |
|                                      | 6 Completely agree    | 20        | 6,5        | 6,5              | 100,0                 |
|                                      | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.6 I motivate students to apply the teachings in different contexts**

| <b>Creativity_Motivate_apply_teachings</b> |                       |           |            |                  |                       |
|--------------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                            |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                                      | 1 Completely disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                                            | 2                     | 6         | 1,9        | 1,9              | 2,6                   |
|                                            | 3                     | 31        | 10,1       | 10,1             | 12,7                  |
|                                            | 4                     | 75        | 24,4       | 24,4             | 37,0                  |

|  |                    |     |       |       |       |
|--|--------------------|-----|-------|-------|-------|
|  | 5                  | 122 | 39,6  | 39,6  | 76,6  |
|  | 6 Completely agree | 72  | 23,4  | 23,4  | 100,0 |
|  | Total              | 308 | 100,0 | 100,0 |       |

**Item 13.7 The students are motivated to apply their learning in different situations**

| Creativity_students-motivation_apply_learning |                       |           |            |                  |                       |
|-----------------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                               |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                                         | 1 Completely disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                                               | 2                     | 12        | 3,9        | 3,9              | 4,5                   |
|                                               | 3                     | 50        | 16,2       | 16,2             | 20,8                  |
|                                               | 4                     | 88        | 28,6       | 28,6             | 49,4                  |
|                                               | 5                     | 103       | 33,4       | 33,4             | 82,8                  |
|                                               | 6 Completely agree    | 53        | 17,2       | 17,2             | 100,0                 |
|                                               | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.8 To develop critical thinking, I enquire students about their idea**

| Creativity_students_critical_thinking |                       |           |            |                  |                       |
|---------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                       |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                                 | 1 Completely disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                                       | 2                     | 1         | 0,3        | 0,3              | 1,0                   |
|                                       | 3                     | 16        | 5,2        | 5,2              | 6,2                   |
|                                       | 4                     | 65        | 21,1       | 21,1             | 27,3                  |
|                                       | 5                     | 119       | 38,6       | 38,6             | 65,9                  |
|                                       | 6 Completely agree    | 105       | 34,1       | 34,1             | 100,0                 |
|                                       | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.9 I provide opportunity to students to evaluate and judge themselves**

| Creativity_self_evaluation |  |           |            |                  |                       |
|----------------------------|--|-----------|------------|------------------|-----------------------|
|                            |  | Frequency | Percentage | Valid percentage | Cumulative percentage |

|       |                       |     |       |       |       |
|-------|-----------------------|-----|-------|-------|-------|
| Valid | 1 Completely disagree | 5   | 1,6   | 1,6   | 1,6   |
|       | 2                     | 12  | 3,9   | 3,9   | 5,5   |
|       | 3                     | 31  | 10,1  | 10,1  | 15,6  |
|       | 4                     | 75  | 24,4  | 24,4  | 39,9  |
|       | 5                     | 91  | 29,5  | 29,5  | 69,5  |
|       | 6 Completely agree    | 94  | 30,5  | 30,5  | 100,0 |
|       | Total                 | 308 | 100,0 | 100,0 |       |

**Item 13.10 I am capable of helping students to become more flexible in their thinking.**

| <b>Creativity_Flexible_thinking</b> |                       |           |            |                  |                       |
|-------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                     |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                               | 1 Completely disagree | 8         | 2,6        | 2,6              | 2,6                   |
|                                     | 3                     | 41        | 13,3       | 13,3             | 15,9                  |
|                                     | 4                     | 93        | 30,2       | 30,2             | 46,1                  |
|                                     | 5                     | 110       | 35,7       | 35,7             | 81,8                  |
|                                     | 6 Completely agree    | 56        | 18,2       | 18,2             | 100,0                 |
|                                     | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.11 I am capable of enhancing my students' abilities to take meaningful academic risks.**

| <b>Creativity_academic_risk</b> |                       |           |            |                  |                       |
|---------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                 |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                           | 1 Completely disagree | 4         | 1,3        | 1,3              | 1,3                   |
|                                 | 2                     | 23        | 7,5        | 7,5              | 8,8                   |
|                                 | 3                     | 55        | 17,9       | 17,9             | 26,6                  |
|                                 | 4                     | 99        | 32,1       | 32,1             | 58,8                  |
|                                 | 5                     | 89        | 28,9       | 28,9             | 87,7                  |
|                                 | 6 Completely agree    | 38        | 12,3       | 12,3             | 100,0                 |
|                                 | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.12 I am capable of fostering creative problem solving in my classroom**

| <b>Creativity_problem_solving</b> |                       |           |            |                  |                       |
|-----------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                   |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                             | 1 Completely disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                                   | 2                     | 11        | 3,6        | 3,6              | 4,2                   |
|                                   | 3                     | 46        | 14,9       | 14,9             | 19,2                  |
|                                   | 4                     | 96        | 31,2       | 31,2             | 50,3                  |
|                                   | 5                     | 98        | 31,8       | 31,8             | 82,1                  |
|                                   | 6 Completely agree    | 55        | 17,9       | 17,9             | 100,0                 |
|                                   | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.13 Teaching creative thinking is one of my strengths**

| <b>Creativity_teaching_creative_thinking</b> |                       |           |            |                  |                       |
|----------------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                              |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                                        | 1 Completely disagree | 4         | 1,3        | 1,3              | 1,3                   |
|                                              | 2                     | 19        | 6,2        | 6,2              | 7,5                   |
|                                              | 3                     | 49        | 15,9       | 15,9             | 23,4                  |
|                                              | 4                     | 81        | 26,3       | 26,3             | 49,7                  |
|                                              | 5                     | 86        | 27,9       | 27,9             | 77,6                  |
|                                              | 6 Completely agree    | 69        | 22,4       | 22,4             | 100,0                 |
|                                              | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.14 I am capable of increasing my students' abilities to create unique solutions**

| <b>Creativity_unique_solution</b> |                       |           |            |                  |                       |
|-----------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                   |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                             | 1 Completely disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                                   | 2                     | 18        | 5,8        | 5,8              | 6,5                   |
|                                   | 3                     | 62        | 20,1       | 20,1             | 26,6                  |
|                                   | 4                     | 96        | 31,2       | 31,2             | 57,8                  |

|  |                    |     |       |       |       |
|--|--------------------|-----|-------|-------|-------|
|  | 5                  | 85  | 27,6  | 27,6  | 85,4  |
|  | 6 Completely agree | 45  | 14,6  | 14,6  | 100,0 |
|  | Total              | 308 | 100,0 | 100,0 |       |

**Item 13.15 I am capable of developing a classroom atmosphere that welcomes imagination**

| Creativity_imagination |                       |           |            |                  |                       |
|------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                        |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                  | 1 Completely disagree | 3         | 1,0        | 1,0              | 1,0                   |
|                        | 2                     | 11        | 3,6        | 3,6              | 4,5                   |
|                        | 3                     | 42        | 13,6       | 13,6             | 18,2                  |
|                        | 4                     | 86        | 27,9       | 27,9             | 46,1                  |
|                        | 5                     | 101       | 32,8       | 32,8             | 78,9                  |
|                        | 6 Completely agree    | 65        | 21,1       | 21,1             | 100,0                 |
|                        | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.16 I am capable of promoting flexible thinking**

| Creativity_promoting_flexibility |                       |           |            |                  |                       |
|----------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                  |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                            | 1 Completely disagree | 1         | 0,3        | 0,3              | 0,3                   |
|                                  | 2                     | 10        | 3,2        | 3,2              | 3,6                   |
|                                  | 3                     | 45        | 14,6       | 14,6             | 18,2                  |
|                                  | 4                     | 89        | 28,9       | 28,9             | 47,1                  |
|                                  | 5                     | 103       | 33,4       | 33,4             | 80,5                  |
|                                  | 6 Completely agree    | 60        | 19,5       | 19,5             | 100,0                 |
|                                  | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.17 I am capable of helping my students to see the world from new perspectives**

| Creativity_new_perspectives |  |           |            |                  |                       |
|-----------------------------|--|-----------|------------|------------------|-----------------------|
|                             |  | Frequency | Percentage | Valid percentage | Cumulative percentage |

|       |                       |     |       |       |       |
|-------|-----------------------|-----|-------|-------|-------|
| Valid | 1 Completely disagree | 2   | 0,6   | 0,6   | 0,6   |
|       | 2                     | 3   | 1,0   | 1,0   | 1,6   |
|       | 3                     | 42  | 13,6  | 13,6  | 15,3  |
|       | 4                     | 88  | 28,6  | 28,6  | 43,8  |
|       | 5                     | 100 | 32,5  | 32,5  | 76,3  |
|       | 6 Completely agree    | 73  | 23,7  | 23,7  | 100,0 |
|       | Total                 | 308 | 100,0 | 100,0 |       |

**Item 13.18 I am capable of teaching my students to find connections in seemingly unconnected**

| Creativity_connections |                       |           |            |                  |                       |
|------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                        |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                  | 1 Completely disagree | 2         | 0,6        | 0,6              | 0,6                   |
|                        | 2                     | 14        | 4,5        | 4,5              | 5,2                   |
|                        | 3                     | 53        | 17,2       | 17,2             | 22,4                  |
|                        | 4                     | 84        | 27,3       | 27,3             | 49,7                  |
|                        | 5                     | 100       | 32,5       | 32,5             | 82,1                  |
|                        | 6 Completely agree    | 55        | 17,9       | 17,9             | 100,0                 |
|                        | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.19 I have helped many students to become more creative.**

| Creativity_become_creative |                       |           |            |                  |                       |
|----------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                            |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1 Completely disagree | 8         | 2,6        | 2,6              | 2,6                   |
|                            | 2                     | 18        | 5,8        | 5,8              | 8,4                   |
|                            | 3                     | 60        | 19,5       | 19,5             | 27,9                  |
|                            | 4                     | 97        | 31,5       | 31,5             | 59,4                  |
|                            | 5                     | 81        | 26,3       | 26,3             | 85,7                  |
|                            | 6 Completely agree    | 44        | 14,3       | 14,3             | 100,0                 |
|                            | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.20 I am capable of increasing the quantity of original thoughts my students have.**

| <b>Creativity_original_thoughts</b> |                       |           |            |                  |                       |
|-------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                     |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                               | 1 Completely disagree | 5         | 1,6        | 1,6              | 1,6                   |
|                                     | 2                     | 22        | 7,1        | 7,1              | 8,8                   |
|                                     | 3                     | 64        | 20,8       | 20,8             | 29,5                  |
|                                     | 4                     | 97        | 31,5       | 31,5             | 61,0                  |
|                                     | 5                     | 78        | 25,3       | 25,3             | 86,4                  |
|                                     | 6 Completely agree    | 42        | 13,6       | 13,6             | 100,0                 |
|                                     | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.21 I am capable of helping students to elaborate on their own unique ideas**

| <b>Creativity_elaborate_idea</b> |                       |           |            |                  |                       |
|----------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                  |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                            | 1 Completely disagree | 3         | 1,0        | 1,0              | 1,0                   |
|                                  | 2                     | 13        | 4,2        | 4,2              | 5,2                   |
|                                  | 3                     | 58        | 18,8       | 18,8             | 24,0                  |
|                                  | 4                     | 85        | 27,6       | 27,6             | 51,6                  |
|                                  | 5                     | 100       | 32,5       | 32,5             | 84,1                  |
|                                  | 6 Completely agree    | 49        | 15,9       | 15,9             | 100,0                 |
|                                  | Total                 | 308       | 100,0      | 100,0            |                       |

**Item 13.22 Teaching creative problem solving is not one of my strengths**

| <b>Creativity_no_problem_solving</b> |                       |           |            |                  |                       |
|--------------------------------------|-----------------------|-----------|------------|------------------|-----------------------|
|                                      |                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                                | 1 Completely disagree | 87        | 28,2       | 28,2             | 28,2                  |
|                                      | 2                     | 64        | 20,8       | 20,8             | 49,0                  |
|                                      | 3                     | 61        | 19,8       | 19,8             | 68,8                  |

|  |                    |     |       |       |       |
|--|--------------------|-----|-------|-------|-------|
|  | 4                  | 42  | 13,6  | 13,6  | 82,5  |
|  | 5                  | 34  | 11,0  | 11,0  | 93,5  |
|  | 6 Completely agree | 20  | 6,5   | 6,5   | 100,0 |
|  | Total              | 308 | 100,0 | 100,0 |       |

## SECTION 6: INCLUSION

| Statistics         |         |                           |                                |                         |                       |                           |                      |                      |                       |                              |                    |                   |                      |                     |                                 |                     |                             |
|--------------------|---------|---------------------------|--------------------------------|-------------------------|-----------------------|---------------------------|----------------------|----------------------|-----------------------|------------------------------|--------------------|-------------------|----------------------|---------------------|---------------------------------|---------------------|-----------------------------|
|                    |         | Inclusion_learning_of_all | Inclusion_participation_of_all | Inclusion_understanding | Inclusion_involvement | Inclusion_collaboratively | Inclusion_assessment | Inclusion_discipline | Inclusion_partnership | Inclusion_teaching_assistent | Inclusion_homework | Inclusion_outside | Inclusion_difference | Inclusion_expertise | Inclusion_development_resources | Inclusion_community | Inclusion_fair_distribution |
| N                  | Valid   | 308                       | 308                            | 308                     | 308                   | 308                       | 308                  | 308                  | 308                   | 308                          | 308                | 308               | 308                  | 308                 | 308                             | 308                 | 308                         |
|                    | Missing | 0                         | 0                              | 0                       | 0                     | 0                         | 0                    | 0                    | 0                     | 0                            | 0                  | 0                 | 0                    | 0                   | 0                               | 0                   | 0                           |
| Media              |         | 3,39                      | 3,49                           | 3,31                    | 3,47                  | 3,35                      | 3,15                 | 3,65                 | 3,05                  | 3,14                         | 2,89               | 2,62              | 3,22                 | 2,77                | 2,87                            | 2,77                | 2,80                        |
| Median             |         | 4,00                      | 4,00                           | 3,00                    | 4,00                  | 3,00                      | 3,00                 | 4,00                 | 3,00                  | 3,00                         | 3,00               | 3,00              | 3,00                 | 3,00                | 3,00                            | 3,00                | 3,00                        |
| Standard deviation |         | 0,806                     | 0,742                          | 0,804                   | 0,750                 | 0,757                     | 0,842                | 0,695                | 0,866                 | 1,047                        | 0,923              | 0,996             | 0,886                | 0,899               | 0,917                           | 0,890               | 0,968                       |
| Percentile         | 25      | 3,00                      | 3,00                           | 3,00                    | 3,00                  | 3,00                      | 3,00                 | 3,00                 | 3,00                  | 3,00                         | 2,00               | 2,00              | 3,00                 | 2,00                | 2,00                            | 2,00                | 2,00                        |
|                    | 50      | 4,00                      | 4,00                           | 3,00                    | 4,00                  | 3,00                      | 3,00                 | 4,00                 | 3,00                  | 3,00                         | 3,00               | 3,00              | 3,00                 | 3,00                | 3,00                            | 3,00                | 3,00                        |
|                    | 75      | 4,00                      | 4,00                           | 4,00                    | 4,00                  | 4,00                      | 4,00                 | 4,00                 | 4,00                  | 4,00                         | 4,00               | 3,00              | 4,00                 | 3,00                | 4,00                            | 3,00                | 4,00                        |

### FREQUENCIES TABLES

Item 14.1 Teaching is planned with the learning of all students in mind



| Inclusion_learning_of_all |                         |           |            |                  |                       |
|---------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                           |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                     | 1 Need more information | 14        | 4,5        | 4,5              | 4,5                   |
|                           | 2 Disagree              | 21        | 6,8        | 6,8              | 11,4                  |
|                           | 3 Agree to some extent  | 103       | 33,4       | 33,4             | 44,8                  |
|                           | 4 Definitely agree      | 170       | 55,2       | 55,2             | 100,0                 |
|                           | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.2 Lessons encourage the participation of all students.**

| Inclusion_participation_of_all |                         |           |            |                  |                       |
|--------------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                                |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                          | 1 Need more information | 10        | 3,2        | 3,2              | 3,2                   |
|                                | 2 Disagree              | 16        | 5,2        | 5,2              | 8,4                   |
|                                | 3 Agree to some extent  | 96        | 31,2       | 31,2             | 39,6                  |
|                                | 4 Definitely agree      | 186       | 60,4       | 60,4             | 100,0                 |
|                                | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.3 Lessons develop an understanding of difference**

| Inclusion_understanding |                         |           |            |                  |                       |
|-------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                         |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                   | 1 Need more information | 13        | 4,2        | 4,2              | 4,2                   |
|                         | 2 Disagree              | 27        | 8,8        | 8,8              | 13,0                  |
|                         | 3 Agree to some extent  | 118       | 38,3       | 38,3             | 51,3                  |
|                         | 4 Definitely agree      | 150       | 48,7       | 48,7             | 100,0                 |
|                         | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.4 Students are actively involved in their own learning**

| <b>Inclusion_involvement</b> |                         |           |            |                  |                       |
|------------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                              |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                        | 1 Need more information | 8         | 2,6        | 2,6              | 2,6                   |
|                              | 2 Disagree              | 24        | 7,8        | 7,8              | 10,4                  |
|                              | 3 Agree to some extent  | 92        | 29,9       | 29,9             | 40,3                  |
|                              | 4 Definitely agree      | 184       | 59,7       | 59,7             | 100,0                 |
|                              | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.5 Students learn collaboratively**

| <b>Inclusion_collaboratively</b> |                         |           |            |                  |                       |
|----------------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                                  |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                            | 1 Need more information | 9         | 2,9        | 2,9              | 2,9                   |
|                                  | 2 Disagree              | 26        | 8,4        | 8,4              | 11,4                  |
|                                  | 3 Agree to some extent  | 121       | 39,3       | 39,3             | 50,6                  |
|                                  | 4 Definitely agree      | 152       | 49,4       | 49,4             | 100,0                 |
|                                  | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.6 Assessment contributes to the achievements of all students.**

| <b>Inclusion_assessment</b> |                         |           |            |                  |                       |
|-----------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                             |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1 Need more information | 15        | 4,9        | 4,9              | 4,9                   |
|                             | 2 Disagree              | 44        | 14,3       | 14,3             | 19,2                  |
|                             | 3 Agree to some extent  | 128       | 41,6       | 41,6             | 60,7                  |
|                             | 4 Definitely agree      | 121       | 39,3       | 39,3             | 100,0                 |
|                             | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.7 Classroom discipline is based on mutual respect.**

| <b>Inclusion_discipline</b> |                         |           |            |                  |                       |
|-----------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                             |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1 Need more information | 11        | 3,6        | 3,6              | 3,6                   |
|                             | 2 Disagree              | 6         | 1,9        | 1,9              | 5,5                   |
|                             | 3 Agree to some extent  | 63        | 20,5       | 20,5             | 26,0                  |
|                             | 4 Definitely agree      | 228       | 74,0       | 74,0             | 100,0                 |
|                             | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.8 Teachers plan, teach and review in partnership**

| <b>Inclusion_patnership</b> |                         |           |            |                  |                       |
|-----------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                             |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1 Need more information | 17        | 5,5        | 5,5              | 5,5                   |
|                             | 2 Disagree              | 57        | 18,5       | 18,5             | 24,0                  |
|                             | 3 Agree to some extent  | 128       | 41,6       | 41,6             | 65,6                  |
|                             | 4 Definitely agree      | 106       | 34,4       | 34,4             | 100,0                 |
|                             | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.9 Teaching assistants support the learning and participation of all students.**

| <b>Inclusion_teaching_assistent</b> |                         |           |            |                  |                       |
|-------------------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                                     |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                               | 1 Need more information | 39        | 12,7       | 12,7             | 12,7                  |
|                                     | 2 Disagree              | 33        | 10,7       | 10,7             | 23,4                  |
|                                     | 3 Agree to some extent  | 83        | 26,9       | 26,9             | 50,3                  |
|                                     | 4 Definitely agree      | 153       | 49,7       | 49,7             | 100,0                 |
|                                     | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.10 Homework contributes to the learning of all.**

| Inclusion_homework |                         |           |            |                  |                       |
|--------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                    |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid              | 1 Need more information | 23        | 7,5        | 7,5              | 7,5                   |
|                    | 2 Disagree              | 80        | 26,0       | 26,0             | 33,4                  |
|                    | 3 Agree to some extent  | 112       | 36,4       | 36,4             | 69,8                  |
|                    | 4 Definitely agree      | 93        | 30,2       | 30,2             | 100,0                 |
|                    | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.11 Homework contributes to the learning of all.**

| Inclusion_outside |                         |           |            |                  |                       |
|-------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                   |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid             | 1 Need more information | 46        | 14,9       | 14,9             | 14,9                  |
|                   | 2 Disagree              | 95        | 30,8       | 30,8             | 45,8                  |
|                   | 3 Agree to some extent  | 97        | 31,5       | 31,5             | 77,3                  |
|                   | 4 Definitely agree      | 70        | 22,7       | 22,7             | 100,0                 |
|                   | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.12 All students take part in activities outside the classroom.**

| Inclusion_difference |                         |           |            |                  |                       |
|----------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                      |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                | 1 Need more information | 19        | 6,2        | 6,2              | 6,2                   |
|                      | 2 Disagree              | 37        | 12,0       | 12,0             | 18,2                  |
|                      | 3 Agree to some extent  | 109       | 35,4       | 35,4             | 53,6                  |
|                      | 4 Definitely agree      | 143       | 46,4       | 46,4             | 100,0                 |
|                      | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.13 Staff expertise is fully utilised.**

| Inclusion_expertise |                         |           |            |                  |                       |
|---------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                     |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid               | 1 Need more information | 30        | 9,7        | 9,7              | 9,7                   |
|                     | 2 Disagree              | 77        | 25,0       | 25,0             | 34,7                  |
|                     | 3 Agree to some extent  | 134       | 43,5       | 43,5             | 78,2                  |
|                     | 4 Definitely agree      | 67        | 21,8       | 21,8             | 100,0                 |
|                     | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.14 Student difference is used as a resource for teaching and learning.**

| Inclusion_develop_resources |                         |           |            |                  |                       |
|-----------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                             |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1 Need more information | 31        | 10,1       | 10,1             | 10,1                  |
|                             | 2 Disagree              | 58        | 18,8       | 18,8             | 28,9                  |
|                             | 3 Agree to some extent  | 138       | 44,8       | 44,8             | 73,7                  |
|                             | 4 Definitely agree      | 81        | 26,3       | 26,3             | 100,0                 |
|                             | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.15 Community resources are known and drawn upon**

| Inclusion_community |                         |           |            |                  |                       |
|---------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                     |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid               | 1 Need more information | 29        | 9,4        | 9,4              | 9,4                   |
|                     | 2 Disagree              | 79        | 25,6       | 25,6             | 35,1                  |
|                     | 3 Agree to some extent  | 135       | 43,8       | 43,8             | 78,9                  |
|                     | 4 Definitely agree      | 65        | 21,1       | 21,1             | 100,0                 |
|                     | Total                   | 308       | 100,0      | 100,0            |                       |

**Item 14.16 School resources are distributed fairly so that they support inclusion**

| <b>Inclusion_fair_distribution</b> |                         |           |            |                  |                       |
|------------------------------------|-------------------------|-----------|------------|------------------|-----------------------|
|                                    |                         | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                              | 1 Need more information | 36        | 11,7       | 11,7             | 11,7                  |
|                                    | 2 Disagree              | 73        | 23,7       | 23,7             | 35,4                  |
|                                    | 3 Agree to some extent  | 116       | 37,7       | 37,7             | 73,1                  |
|                                    | 4 Definitely agree      | 83        | 26,9       | 26,9             | 100,0                 |
|                                    | Total                   | 308       | 100,0      | 100,0            |                       |

**Scala: Reliability Inclusion\_Annex**

| <b>Reliability statistics</b> |                                              |             |
|-------------------------------|----------------------------------------------|-------------|
| Alpha di Cronbach             | Cronbach Alfa based on standardized elements | Elements Nr |
| 0,896                         | 0,900                                        | 16          |

| <b>Items statistics</b>        |       |                    |     |
|--------------------------------|-------|--------------------|-----|
|                                | Media | Standard deviation | N   |
| Inclusion_learning_of_all      | 3,39  | 0,806              | 308 |
| Inclusion_participation_of_all | 3,49  | 0,742              | 308 |
| Inclusion_understanding        | 3,31  | 0,804              | 308 |
| Inclusion_involvement          | 3,47  | 0,750              | 308 |
| Inclusion_collaboratively      | 3,35  | 0,757              | 308 |
| Inclusion_assessment           | 3,15  | 0,842              | 308 |
| Inclusion_discipline           | 3,65  | 0,695              | 308 |
| Inclusion_patnership           | 3,05  | 0,866              | 308 |
| Inclusion_teaching_assistent   | 3,14  | 1,047              | 308 |
| Inclusion_homework             | 2,89  | 0,923              | 308 |

|                             |      |       |     |
|-----------------------------|------|-------|-----|
| Inclusion_outside           | 2,62 | 0,996 | 308 |
| Inclusion_difference        | 3,22 | 0,886 | 308 |
| Inclusion_expertise         | 2,77 | 0,899 | 308 |
| Inclusion_develop_resources | 2,87 | 0,917 | 308 |
| Inclusion_community         | 2,77 | 0,890 | 308 |
| Inclusion_fair_distribution | 2,80 | 0,968 | 308 |

| Correlation matrix between elements |                           |                                |                         |                       |                           |                      |                      |                       |                              |                    |                   |                      |                     |                             |                     |                             |
|-------------------------------------|---------------------------|--------------------------------|-------------------------|-----------------------|---------------------------|----------------------|----------------------|-----------------------|------------------------------|--------------------|-------------------|----------------------|---------------------|-----------------------------|---------------------|-----------------------------|
|                                     | Inclusion_learning_of_all | Inclusion_participation_of_all | Inclusion_understanding | Inclusion_involvement | Inclusion_collaboratively | Inclusion_assessment | Inclusion_discipline | Inclusion_partnership | Inclusion_teaching_assistant | Inclusion_homework | Inclusion_outside | Inclusion_difference | Inclusion_expertise | Inclusion_develop_resources | Inclusion_community | Inclusion_fair_distribution |
| Inclusion_learning_of_all           | 1,000                     | 0,627                          | 0,588                   | 0,498                 | 0,510                     | 0,358                | 0,474                | 0,364                 | 0,373                        | 0,201              | 0,324             | 0,526                | 0,258               | 0,248                       | 0,296               | 0,407                       |
| Inclusion_participation_of_all      | 0,627                     | 1,000                          | 0,687                   | 0,591                 | 0,507                     | 0,308                | 0,585                | 0,313                 | 0,363                        | 0,286              | 0,313             | 0,525                | 0,196               | 0,187                       | 0,311               | 0,382                       |
| Inclusion_understanding             | 0,588                     | 0,687                          | 1,000                   | 0,603                 | 0,540                     | 0,318                | 0,490                | 0,338                 | 0,320                        | 0,283              | 0,313             | 0,551                | 0,235               | 0,240                       | 0,290               | 0,383                       |
| Inclusion_involvement               | 0,498                     | 0,591                          | 0,603                   | 1,000                 | 0,628                     | 0,428                | 0,616                | 0,316                 | 0,313                        | 0,237              | 0,234             | 0,530                | 0,235               | 0,247                       | 0,291               | 0,292                       |

|                              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| olvement                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Inclusion_collaboratively    | 0,510 | 0,507 | 0,540 | 0,628 | 1,000 | 0,391 | 0,439 | 0,317 | 0,354 | 0,194 | 0,307 | 0,525 | 0,266 | 0,289 | 0,344 | 0,314 |
| Inclusion_assessment         | 0,358 | 0,308 | 0,318 | 0,428 | 0,391 | 1,000 | 0,409 | 0,369 | 0,157 | 0,239 | 0,186 | 0,387 | 0,244 | 0,164 | 0,143 | 0,254 |
| Inclusion_discipline         | 0,474 | 0,585 | 0,490 | 0,616 | 0,439 | 0,409 | 1,000 | 0,315 | 0,250 | 0,241 | 0,160 | 0,476 | 0,122 | 0,063 | 0,151 | 0,253 |
| Inclusion_partnership        | 0,364 | 0,313 | 0,338 | 0,316 | 0,317 | 0,369 | 0,315 | 1,000 | 0,348 | 0,324 | 0,312 | 0,355 | 0,420 | 0,410 | 0,408 | 0,393 |
| Inclusion_teaching_assistant | 0,373 | 0,363 | 0,320 | 0,313 | 0,354 | 0,157 | 0,250 | 0,348 | 1,000 | 0,248 | 0,281 | 0,319 | 0,248 | 0,232 | 0,300 | 0,304 |
| Inclusion_homework           | 0,201 | 0,286 | 0,283 | 0,237 | 0,194 | 0,239 | 0,241 | 0,324 | 0,248 | 1,000 | 0,423 | 0,308 | 0,296 | 0,153 | 0,195 | 0,275 |
| Inclusion_outside            | 0,324 | 0,313 | 0,313 | 0,234 | 0,307 | 0,186 | 0,160 | 0,312 | 0,281 | 0,423 | 1,000 | 0,398 | 0,482 | 0,382 | 0,418 | 0,410 |
| Inclusion_difference         | 0,526 | 0,525 | 0,551 | 0,530 | 0,525 | 0,387 | 0,476 | 0,355 | 0,319 | 0,308 | 0,398 | 1,000 | 0,411 | 0,355 | 0,305 | 0,409 |



|                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Inclusion_expertise             | 0,258 | 0,196 | 0,235 | 0,235 | 0,266 | 0,244 | 0,122 | 0,420 | 0,248 | 0,296 | 0,482 | 0,411 | 1,000 | 0,728 | 0,617 | 0,524 |
| Inclusion_development_resources | 0,248 | 0,187 | 0,240 | 0,247 | 0,289 | 0,164 | 0,063 | 0,410 | 0,232 | 0,153 | 0,382 | 0,355 | 0,728 | 1,000 | 0,654 | 0,526 |
| Inclusion_community             | 0,296 | 0,311 | 0,290 | 0,291 | 0,344 | 0,143 | 0,151 | 0,408 | 0,300 | 0,195 | 0,418 | 0,305 | 0,617 | 0,654 | 1,000 | 0,690 |
| Inclusion_fair_distribution     | 0,407 | 0,382 | 0,383 | 0,292 | 0,314 | 0,254 | 0,253 | 0,393 | 0,304 | 0,275 | 0,410 | 0,409 | 0,524 | 0,526 | 0,690 | 1,000 |

| Summary elements statistics   |       |         |         |       |                 |          |             |
|-------------------------------|-------|---------|---------|-------|-----------------|----------|-------------|
|                               | Media | Minimum | Maximum | Range | Maximum/Minimum | Variance | Elements Nr |
| Items average                 | 3,122 | 2,620   | 3,649   | 1,029 | 1,393           | 0,095    | 16          |
| Correlations between elements | 0,359 | 0,063   | 0,728   | 0,665 | 11,545          | 0,019    | 16          |

| Item-total statistics |                                        |                                    |                                  |                                  |                                            |
|-----------------------|----------------------------------------|------------------------------------|----------------------------------|----------------------------------|--------------------------------------------|
|                       | Medium scale if the element is removed | Variance if the element is deleted | Item-Total correlation corrected | Correlazione multipla quadratica | Cronbach's Alpha if the element is removed |

|                                |       |        |       |       |       |
|--------------------------------|-------|--------|-------|-------|-------|
| Inclusion_learning_of_all      | 46,55 | 66,229 | 0,630 | 0,520 | 0,887 |
| Inclusion_participation_of_all | 46,46 | 66,822 | 0,640 | 0,623 | 0,887 |
| Inclusion_understanding        | 46,63 | 66,130 | 0,640 | 0,583 | 0,887 |
| Inclusion_involvement          | 46,48 | 66,941 | 0,622 | 0,602 | 0,888 |
| Inclusion_collaboratively      | 46,59 | 66,939 | 0,615 | 0,511 | 0,888 |
| Inclusion_assessment           | 46,79 | 68,282 | 0,442 | 0,324 | 0,894 |
| Inclusion_discipline           | 46,30 | 68,776 | 0,511 | 0,513 | 0,892 |
| Inclusion_partnership          | 46,90 | 66,439 | 0,563 | 0,373 | 0,890 |
| Inclusion_teaching_assistant   | 46,81 | 66,247 | 0,458 | 0,252 | 0,895 |
| Inclusion_homework             | 47,05 | 68,056 | 0,409 | 0,286 | 0,896 |
| Inclusion_outside              | 47,32 | 65,621 | 0,528 | 0,386 | 0,891 |
| Inclusion_difference           | 46,72 | 64,800 | 0,670 | 0,517 | 0,886 |
| Inclusion_expertise            | 47,17 | 65,928 | 0,576 | 0,632 | 0,889 |
| Inclusion_develop_resources    | 47,07 | 66,418 | 0,527 | 0,625 | 0,891 |
| Inclusion_community            | 47,18 | 65,867 | 0,587 | 0,645 | 0,889 |
| Inclusion_fair_distribution    | 47,15 | 64,496 | 0,624 | 0,565 | 0,887 |

| Scale statistics |          |                    |             |
|------------------|----------|--------------------|-------------|
| Media            | Variance | Standard deviation | Elements Nr |
| 49,94            | 75,140   | 8,668              | 16          |

Items 15

| Statistics            |         |                                           |                         |                                    |                                    |                                           |                              |                          |                                            |
|-----------------------|---------|-------------------------------------------|-------------------------|------------------------------------|------------------------------------|-------------------------------------------|------------------------------|--------------------------|--------------------------------------------|
|                       |         | InclusionSE_<br>motivate_lo<br>w_interest | InclusionSE_<br>believe | InclusionSE_<br>value_learni<br>ng | InclusionSE_<br>good_questi<br>ons | InclusionSE_<br>assessment_<br>strategies | InclusionSE_<br>explanations | InclusionSE_f<br>amilies | InclusionSE_<br>alternative_s<br>trategies |
| N                     | Valid   | 308                                       | 308                     | 308                                | 308                                | 308                                       | 308                          | 308                      | 308                                        |
|                       | Missing | 0                                         | 0                       | 0                                  | 0                                  | 0                                         | 0                            | 0                        | 0                                          |
| Media                 |         | 6,87                                      | 7,38                    | 7,17                               | 7,26                               | 6,92                                      | 7,68                         | 6,29                     | 7,02                                       |
| Median                |         | 7,00                                      | 7,00                    | 7,00                               | 7,00                               | 7,00                                      | 8,00                         | 7,00                     | 7,00                                       |
| Standard<br>deviation |         | 1,418                                     | 1,162                   | 1,238                              | 1,094                              | 1,470                                     | 1,157                        | 1,630                    | 1,409                                      |
| Percentili            | 25      | 6,00                                      | 7,00                    | 6,25                               | 7,00                               | 6,00                                      | 7,00                         | 5,00                     | 6,00                                       |
|                       | 50      | 7,00                                      | 7,00                    | 7,00                               | 7,00                               | 7,00                                      | 8,00                         | 7,00                     | 7,00                                       |
|                       | 75      | 8,00                                      | 8,00                    | 8,00                               | 8,00                               | 8,00                                      | 9,00                         | 7,00                     | 8,00                                       |

#### FREQUENCIES TABLES items 15

Item 15.1 How much can you do to motivate students who show low interest in school work?

| InclusionSE_motivate_low_interest |       |           |            |                  |                       |
|-----------------------------------|-------|-----------|------------|------------------|-----------------------|
|                                   |       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                             | 2     | 1         | 0,3        | 0,3              | 0,3                   |
|                                   | 3     | 9         | 2,9        | 2,9              | 3,2                   |
|                                   | 4     | 7         | 2,3        | 2,3              | 5,5                   |
|                                   | 5     | 27        | 8,8        | 8,8              | 14,3                  |
|                                   | 6     | 62        | 20,1       | 20,1             | 34,4                  |
|                                   | 7     | 107       | 34,7       | 34,7             | 69,2                  |
|                                   | 8     | 53        | 17,2       | 17,2             | 86,4                  |
|                                   | 9     | 42        | 13,6       | 13,6             | 100,0                 |
|                                   | Total | 308       | 100,0      | 100,0            |                       |

**Item 15.2 How much can you do to help your students value learning?**

| InclusionSE_value_learning |       |           |            |                  |                       |
|----------------------------|-------|-----------|------------|------------------|-----------------------|
|                            |       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 2     | 1         | 0,3        | 0,3              | 0,3                   |
|                            | 3     | 3         | 1,0        | 1,0              | 1,3                   |
|                            | 4     | 4         | 1,3        | 1,3              | 2,6                   |
|                            | 5     | 15        | 4,9        | 4,9              | 7,5                   |
|                            | 6     | 54        | 17,5       | 17,5             | 25,0                  |
|                            | 7     | 113       | 36,7       | 36,7             | 61,7                  |
|                            | 8     | 72        | 23,4       | 23,4             | 85,1                  |
|                            | 9     | 46        | 14,9       | 14,9             | 100,0                 |
|                            | Total | 308       | 100,0      | 100,0            |                       |

**Item 15.3 To what extent can you craft good questions for your students?**

| InclusionSE_good_questions |       |           |            |                  |                       |
|----------------------------|-------|-----------|------------|------------------|-----------------------|
|                            |       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 4     | 4         | 1,3        | 1,3              | 1,3                   |
|                            | 5     | 19        | 6,2        | 6,2              | 7,5                   |
|                            | 6     | 37        | 12,0       | 12,0             | 19,5                  |
|                            | 7     | 116       | 37,7       | 37,7             | 57,1                  |
|                            | 8     | 96        | 31,2       | 31,2             | 88,3                  |
|                            | 9     | 36        | 11,7       | 11,7             | 100,0                 |
|                            | Total | 308       | 100,0      | 100,0            |                       |

**Item 15.4 How much can you use a variety of assessment strategies?**

| InclusionSE_assessment_strategies |   |           |            |                  |                       |
|-----------------------------------|---|-----------|------------|------------------|-----------------------|
|                                   |   | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                             | 1 | 2         | 0,6        | 0,6              | 0,6                   |

|  |       |     |       |       |       |
|--|-------|-----|-------|-------|-------|
|  | 2     | 1   | 0,3   | 0,3   | 1,0   |
|  | 3     | 6   | 1,9   | 1,9   | 2,9   |
|  | 4     | 9   | 2,9   | 2,9   | 5,8   |
|  | 5     | 27  | 8,8   | 8,8   | 14,6  |
|  | 6     | 58  | 18,8  | 18,8  | 33,4  |
|  | 7     | 87  | 28,2  | 28,2  | 61,7  |
|  | 8     | 82  | 26,6  | 26,6  | 88,3  |
|  | 9     | 36  | 11,7  | 11,7  | 100,0 |
|  | Total | 308 | 100,0 | 100,0 |       |

**Item 15.5 To what extent can you provide an alternative explanation or example when students are confused?**

| InclusionSE_explanations |       |           |            |                  |                       |
|--------------------------|-------|-----------|------------|------------------|-----------------------|
|                          |       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                    | 3     | 1         | 0,3        | 0,3              | 0,3                   |
|                          | 4     | 5         | 1,6        | 1,6              | 1,9                   |
|                          | 5     | 9         | 2,9        | 2,9              | 4,9                   |
|                          | 6     | 25        | 8,1        | 8,1              | 13,0                  |
|                          | 7     | 76        | 24,7       | 24,7             | 37,7                  |
|                          | 8     | 112       | 36,4       | 36,4             | 74,0                  |
|                          | 9     | 80        | 26,0       | 26,0             | 100,0                 |
|                          | Total | 308       | 100,0      | 100,0            |                       |

**Item 15.6 How much can you assist families in helping their children do well in school?**

| InclusionSE_families |   |           |            |                  |                       |
|----------------------|---|-----------|------------|------------------|-----------------------|
|                      |   | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                | 1 | 2         | 0,6        | 0,6              | 0,6                   |
|                      | 2 | 8         | 2,6        | 2,6              | 3,2                   |
|                      | 3 | 11        | 3,6        | 3,6              | 6,8                   |
|                      | 4 | 20        | 6,5        | 6,5              | 13,3                  |

|  |       |     |       |       |       |
|--|-------|-----|-------|-------|-------|
|  | 5     | 42  | 13,6  | 13,6  | 26,9  |
|  | 6     | 61  | 19,8  | 19,8  | 46,8  |
|  | 7     | 96  | 31,2  | 31,2  | 77,9  |
|  | 8     | 53  | 17,2  | 17,2  | 95,1  |
|  | 9     | 15  | 4,9   | 4,9   | 100,0 |
|  | Total | 308 | 100,0 | 100,0 |       |

**Item 15.7 How well can you implement alternative strategies in your classroom?**

| InclusionSE_alternative_strategies |       |           |            |                  |                       |
|------------------------------------|-------|-----------|------------|------------------|-----------------------|
|                                    |       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                              | 1     | 1         | 0,3        | 0,3              | 0,3                   |
|                                    | 2     | 2         | 0,6        | 0,6              | 1,0                   |
|                                    | 3     | 5         | 1,6        | 1,6              | 2,6                   |
|                                    | 4     | 5         | 1,6        | 1,6              | 4,2                   |
|                                    | 5     | 23        | 7,5        | 7,5              | 11,7                  |
|                                    | 6     | 62        | 20,1       | 20,1             | 31,8                  |
|                                    | 7     | 85        | 27,6       | 27,6             | 59,4                  |
|                                    | 8     | 85        | 27,6       | 27,6             | 87,0                  |
|                                    | 9     | 40        | 13,0       | 13,0             | 100,0                 |
|                                    | Total | 308       | 100,0      | 100,0            |                       |

**Reliability INCLUSION**

| Reliability statistics |                                              |             |
|------------------------|----------------------------------------------|-------------|
| Alpha di Cronbach      | Cronbach Alfa based on standardized elements | Elements Nr |
| 0,852                  | 0,856                                        | 8           |

| Items statistics |
|------------------|
|------------------|

|                                    | Media | Standard deviation | N   |
|------------------------------------|-------|--------------------|-----|
| InclusionSE_motivate_low_interest  | 6,87  | 1,418              | 308 |
| InclusionSE_believe                | 7,38  | 1,162              | 308 |
| InclusionSE_value_learning         | 7,17  | 1,238              | 308 |
| InclusionSE_good_questions         | 7,26  | 1,094              | 308 |
| InclusionSE_assessment_strategies  | 6,92  | 1,470              | 308 |
| InclusionSE_explanations           | 7,68  | 1,157              | 308 |
| InclusionSE_families               | 6,29  | 1,630              | 308 |
| InclusionSE_alternative_strategies | 7,02  | 1,409              | 308 |

| Correlation matrix between elements |                                   |                     |                            |                            |                                   |                          |                      |                                    |
|-------------------------------------|-----------------------------------|---------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|----------------------|------------------------------------|
|                                     | InclusionSE_motivate_low_interest | InclusionSE_believe | InclusionSE_value_learning | InclusionSE_good_questions | InclusionSE_assessment_strategies | InclusionSE_explanations | InclusionSE_families | InclusionSE_alternative_strategies |
| InclusionSE_motivate_low_interest   | 1,000                             | 0,614               | 0,539                      | 0,285                      | 0,379                             | 0,385                    | 0,464                | 0,454                              |
| InclusionSE_believe                 | 0,614                             | 1,000               | 0,591                      | 0,329                      | 0,333                             | 0,344                    | 0,339                | 0,409                              |
| InclusionSE_value_learning          | 0,539                             | 0,591               | 1,000                      | 0,391                      | 0,394                             | 0,369                    | 0,323                | 0,377                              |
| InclusionSE_good_questions          | 0,285                             | 0,329               | 0,391                      | 1,000                      | 0,467                             | 0,499                    | 0,337                | 0,337                              |
| InclusionSE_assessment_strategies   | 0,379                             | 0,333               | 0,394                      | 0,467                      | 1,000                             | 0,551                    | 0,441                | 0,581                              |
| InclusionSE_explanations            | 0,385                             | 0,344               | 0,369                      | 0,499                      | 0,551                             | 1,000                    | 0,354                | 0,563                              |
| InclusionSE_families                | 0,464                             | 0,339               | 0,323                      | 0,337                      | 0,441                             | 0,354                    | 1,000                | 0,475                              |

|                                    |       |       |       |       |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| InclusionSE_alternative_strategies | 0,454 | 0,409 | 0,377 | 0,337 | 0,581 | 0,563 | 0,475 | 1,000 |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

| Summary elements statistics   |       |         |         |       |                 |          |             |
|-------------------------------|-------|---------|---------|-------|-----------------|----------|-------------|
|                               | Media | Minimum | Maximum | Range | Maximum/Minimum | Variance | Elements Nr |
| Items average                 | 7,073 | 6,292   | 7,682   | 1,390 | 1,221           | 0,170    | 8           |
| Correlations between elements | 0,426 | 0,285   | 0,614   | 0,329 | 2,154           | 0,009    | 8           |

| Scale statistics |          |                    |             |
|------------------|----------|--------------------|-------------|
| Media            | Variance | Standard deviation | Elements Nr |
| 56,58            | 55,990   | 7,483              | 8           |

#### SECTION 7: DIGITAL

| Statistiche        |         |             |                       |                      |                            |
|--------------------|---------|-------------|-----------------------|----------------------|----------------------------|
|                    |         | Digicomp_PD | Digicomp_ICT_learngin | Digicom_ICT_feedback | Digicomp_ICT_collaboration |
| N                  | Valid   | 308         | 308                   | 308                  | 308                        |
|                    | Missing | 0           | 0                     | 0                    | 0                          |
| Media              |         | 4,91        | 4,92                  | 5,08                 | 5,21                       |
| Median             |         | 5,00        | 5,00                  | 6,00                 | 6,00                       |
| Standard deviation |         | 1,514       | 1,477                 | 1,737                | 1,679                      |
| Percentili         | 25      | 4,00        | 4,00                  | 4,00                 | 4,00                       |
|                    | 50      | 5,00        | 5,00                  | 6,00                 | 6,00                       |



|  |    |      |      |      |      |
|--|----|------|------|------|------|
|  | 75 | 6,00 | 6,00 | 6,00 | 7,00 |
|--|----|------|------|------|------|

## FREQUENCIES TABLES

### 16. Using digital technologies for one's own professional learning

| Digicomp_PD                                                                                                                                                                                           |           |            |                  |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------------|-----------------------|
|                                                                                                                                                                                                       | Frequency | Percentage | Valid percentage | Cumulative percentage |
| 1 I am not aware of this competence.                                                                                                                                                                  | 6         | 1,9        | 1,9              | 1,9                   |
| 2I initiate and promote a plan to support my colleagues' digitally-enhanced professional learning (e.g. provide webinars, online training, online communities, resources repository, digital badges). | 15        | 4,9        | 4,9              | 6,8                   |
| 3I support and provide advice to colleagues on using digital technologies for their professional learning (e.g. online learning communities, online repositories, e-portfolios).                      | 21        | 6,8        | 6,8              | 13,6                  |
| 4I analyse and select online learning resources and activities that best suit my learning needs (e.g. webinars, online interactive courses, online learnin communities).                              | 89        | 28,9       | 28,9             | 42,5                  |
| 5I use various digital technologies for my professional learning (e.g. discussions in a forum, uploading                                                                                              | 70        | 22,7       | 22,7             | 65,3                  |

|                                                                                                                                                                                                      |     |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------|-------|
| material, giving and taking feedback, presenting)                                                                                                                                                    |     |       |       |       |
| 6 I have tried using digital technologies for my professional learning (e.g. search for information online, join online courses, use online learning apps, visit online libraries and repositories). | 42  | 13,6  | 13,6  | 78,9  |
| 7 I am aware that digital technologies can support and enhance my professional learning (e.g. digital tools and resources, online learning environment and courses).                                 | 65  | 21,1  | 21,1  | 100,0 |
| Total                                                                                                                                                                                                | 308 | 100,0 | 100,0 |       |

**17. Designing, developing and support learning with the use of digital technologies to enhance learning outcomes.**

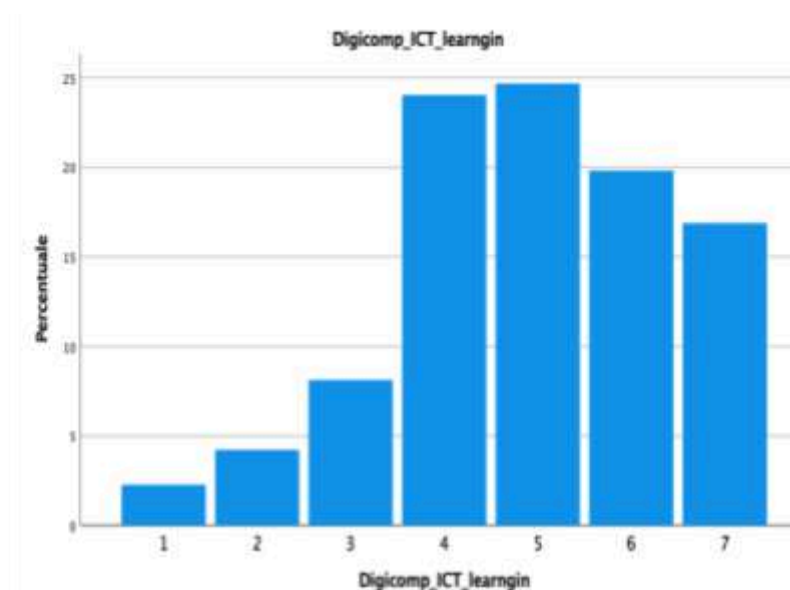
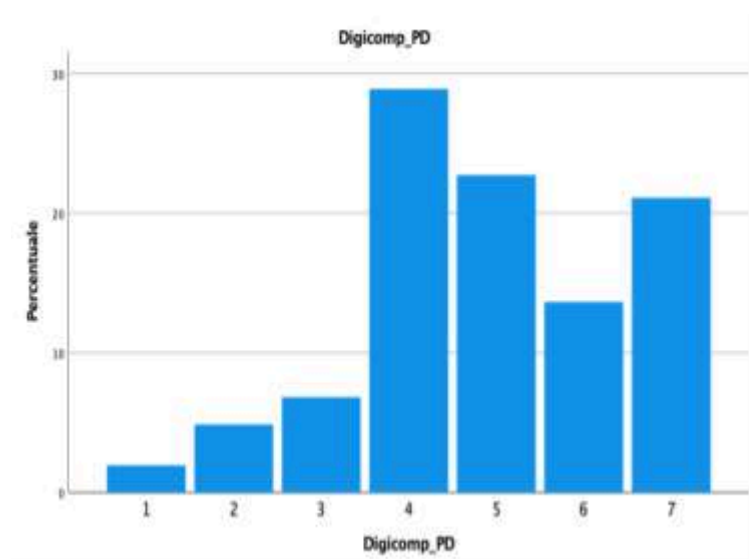
| <b>Digicomp_ICT_learning</b>                                                                                                                                                                                                                                                                                                                              |           |            |                  |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------------|-----------------------|
|                                                                                                                                                                                                                                                                                                                                                           | Frequency | Percentage | Valid percentage | Cumulative percentage |
| 1I am not aware of this competence.                                                                                                                                                                                                                                                                                                                       | 7         | 2,3        | 2,3              | 2,3                   |
| 2I initiate and promote the design and sharing of innovative teaching and learning practices with digital technologies in my school and its wider community(e.g. online workshops, learning design with the use of digital technologies, micro-teaching and co-teaching, reflective discussions on the effectiveness of the use of digital technologies). | 13        | 4,2        | 4,2              | 6,5                   |

|                                                                                                                                                                                                                                                                                           |     |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------|-------|
| 3 Together with my students, I reflect on and (re)design the use of digital technologies to enhance teaching practices and innovative learning approaches (e.g. students as coaches, use of emerging technologies, modelling and advice, lesson-study).                                   | 25  | 8,1   | 8,1   | 14,6  |
| 4 I select and use digital technologies in my learning designs, so as to meet teaching and learning aims (e.g. simulations, digital games, online interactive tools, collaborative environments).                                                                                         | 74  | 24,0  | 24,0  | 38,6  |
| 5 I use various digital technologies that can support innovative pedagogical approaches, enhancing my students' active involvement in their learning (e.g. inquiry based learning, project based learning, game based learning, peer and self-assessment, e-portfolios, student coaches). | 76  | 24,7  | 24,7  | 63,3  |
| 6 I have tried using digital technologies to support and/or enhance my teaching practice (e.g. software programs and suites, mobile apps and tools, online and cloud-based resources, interactive whiteboards).                                                                           | 61  | 19,8  | 19,8  | 83,1  |
| 7 I am aware that digital technologies can support and enhance teaching and learning (e.g. software programs and suites, mobile apps and tools, on-line and cloud-based resources).                                                                                                       | 52  | 16,9  | 16,9  | 100,0 |
| Total                                                                                                                                                                                                                                                                                     | 308 | 100,0 | 100,0 |       |

18. Using digital technologies in order to provide feedback and opportunities for reflection, leading to readjustment of teaching and learning practices for both teachers and learners.

| <b>Digicom_ICT_feedback</b>                                                                                                                                                                                                                              |           |            |                  |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------------|-----------------------|
|                                                                                                                                                                                                                                                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| 1I am not aware of this competence.                                                                                                                                                                                                                      | 18        | 5,8        | 5,8              | 5,8                   |
| 2I initiate and promote ways in which digital technologies can be used to support feedback and reflection for teachers and students in my school and beyond (e.g. discussion forums, chat, shared documents, Frequently Asked Questions).                | 16        | 5,2        | 5,2              | 11,0                  |
| 3Together with my students, I reflect on and (re)design teaching and learning, based on evidence captured through digital technologies (e.g. digital polls/surveys outcomes, recordings of learning activities, learning analytics).                     | 16        | 5,2        | 5,2              | 16,2                  |
| 4I select and use digital technologies to provide opportunities for students to engage in self-assessment and peer-assessment and the design of their learning (e.g. online shared documents, recordings of learning activities, scaffolded reflection). | 52        | 16,9       | 16,9             | 33,1                  |
| 5I use various digital technologies to provide students with feedback and opportunities for reflection on their learning, in real-time and /or                                                                                                           | 51        | 16,6       | 16,6             | 49,7                  |

|                                                                                                                                                                                      |     |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------|-------|
| asynchronously (e.g. chat, discussion forums, video responses, in-class polls/ voting).                                                                                              |     |       |       |       |
| 61 have tried using digital technologies to provide feedback and support to students (e.g. , online tutorials, chat, automated/immediate feedback, links to online Q&A).             | 80  | 26,0  | 26,0  | 75,6  |
| 71 am aware that digital technologies can be used to provide and receive feedback and opportunities to reflect on teaching and learning practices (e.g email, chat, video response). | 75  | 24,4  | 24,4  | 100,0 |
| Total                                                                                                                                                                                | 308 | 100,0 | 100,0 |       |



**19. Using digital technologies to foster and enhance learner collaboration for individual and collective learning**

| <b>Digicomp_ICT_collaboration</b>                                                                                                                                                                                                                                                |           |            |                  |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------------|-----------------------|
|                                                                                                                                                                                                                                                                                  | Frequency | Percentage | Valid percentage | Cumulative percentage |
| 1I am not aware of this competence.                                                                                                                                                                                                                                              | 12        | 3,9        | 3,9              | 3,9                   |
| 2I initiate and promote the use of digital technologies within my school and its wider community, providing opportunities for collaboration to support individual and collective learning, in and beyond the school (e.g. using synchronous and asynchronous online environments | 17        | 5,5        | 5,5              | 9,4                   |

|                                                                                                                                                                                                                                                                                                                                         |    |      |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|------|------|
| and tools, teach meets, joint projects, co-organising online learning events, co-designing and co-creating learning material).                                                                                                                                                                                                          |    |      |      |      |
| 3 Together with my students, I reflect on and (re)design their use of digital technologies for individual and/or collaborative learning (e.g. edit and develop content, co-create an artefact, participate in collaborative projects, virtual exchanges, use of digital tools for task and time management, communication and sharing). | 17 | 5,5  | 5,5  | 14,9 |
| 4I select and use digital technologies in my learning designs based on their features, to enhance and support my students' collaborative learning, in face to-face and/or online settings (e.g. co-design, co-creation, peer assessment and group reflection, project building, sharing).                                               | 45 | 14,6 | 14,6 | 29,5 |
| 5I usevarious digital technologies to support and enhance students' collaborative learning, in face-to-face and/ or online settings (e.g. shared documents, forums, wikis, blogs, co-authoring).                                                                                                                                        | 62 | 20,1 | 20,1 | 49,7 |
| 6 I have tried using digital technologies to support and enhance collaborative activities of students (e.g. shared documents, contributing to forums, wikis).                                                                                                                                                                           | 66 | 21,4 | 21,4 | 71,1 |

|                                                                                                                                                                                                    |     |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------|-------|
| 7I am aware that digital technologies can be used to foster and enhance learner collaboration towards individual and collective learning (e.g. on-line collaboration, sharing learning resources). | 89  | 28,9  | 28,9  | 100,0 |
| Total                                                                                                                                                                                              | 308 | 100,0 | 100,0 |       |

| Case processing summary                                      |       |            |         |            |       |            |
|--------------------------------------------------------------|-------|------------|---------|------------|-------|------------|
|                                                              | Cases |            |         |            |       |            |
|                                                              | Valid |            | Missing |            | Total |            |
|                                                              | N     | Percentage | N       | Percentage | N     | Percentage |
| Digicomp_PD *<br>Digicomp_ICT_lear<br>ngin                   | 308   | 100,0%     | 0       | 0,0%       | 308   | 100,0%     |
| Digicomp_PD *<br>Digicomp_ICT_colla<br>boration              | 308   | 100,0%     | 0       | 0,0%       | 308   | 100,0%     |
| Digicom_ICT_feedb<br>ack *<br>Digicomp_ICT_lear<br>ngin      | 308   | 100,0%     | 0       | 0,0%       | 308   | 100,0%     |
| Digicom_ICT_feedb<br>ack *<br>Digicomp_ICT_colla<br>boration | 308   | 100,0%     | 0       | 0,0%       | 308   | 100,0%     |

**Contingency table**



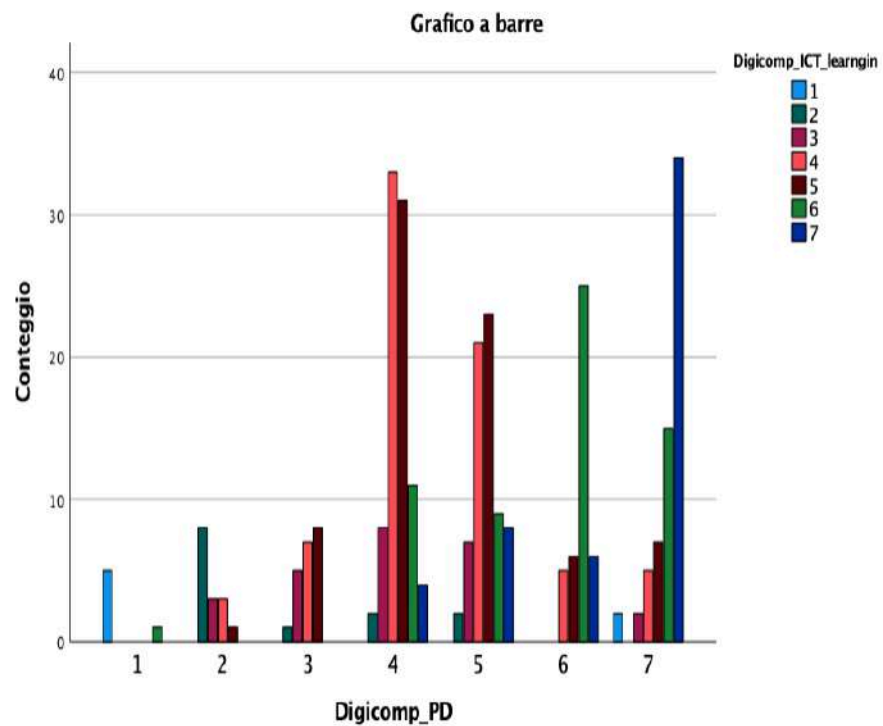
| Contingency table Digicomp_PD * Digicomp_ICT_learning |   |                            |                       |       |       |       |      |       |      |        |
|-------------------------------------------------------|---|----------------------------|-----------------------|-------|-------|-------|------|-------|------|--------|
|                                                       |   |                            | Digicomp_ICT_learning |       |       |       |      |       |      | Total  |
|                                                       |   |                            | 1                     | 2     | 3     | 4     | 5    | 6     | 7    |        |
| Digicomp_PD                                           | 1 | Counting                   | 5                     | 0     | 0     | 0     | 0    | 1     | 0    | 6      |
|                                                       |   | Expected counting          | 0,1                   | 0,3   | 0,5   | 1,4   | 1,5  | 1,2   | 1,0  | 6,0    |
|                                                       |   | % in Digicomp_PD           | 83,3%                 | 0,0%  | 0,0%  | 0,0%  | 0,0% | 16,7% | 0,0% | 100,0% |
|                                                       |   | % in Digicomp_ICT_learning | 71,4%                 | 0,0%  | 0,0%  | 0,0%  | 0,0% | 1,6%  | 0,0% | 1,9%   |
|                                                       |   | % of Total                 | 1,6%                  | 0,0%  | 0,0%  | 0,0%  | 0,0% | 0,3%  | 0,0% | 1,9%   |
|                                                       |   | Standardized residual      | 13,2                  | -0,5  | -0,7  | -1,2  | -1,2 | -0,2  | -1,0 |        |
|                                                       | 2 | Counting                   | 0                     | 8     | 3     | 3     | 1    | 0     | 0    | 15     |
|                                                       |   | Expected counting          | 0,3                   | 0,6   | 1,2   | 3,6   | 3,7  | 3,0   | 2,5  | 15,0   |
|                                                       |   | % in Digicomp_PD           | 0,0%                  | 53,3% | 20,0% | 20,0% | 6,7% | 0,0%  | 0,0% | 100,0% |
|                                                       |   | % in Digicomp_ICT_learning | 0,0%                  | 61,5% | 12,0% | 4,1%  | 1,3% | 0,0%  | 0,0% | 4,9%   |
|                                                       |   | % of Total                 | 0,0%                  | 2,6%  | 1,0%  | 1,0%  | 0,3% | 0,0%  | 0,0% | 4,9%   |
|                                                       |   | Standardized residual      | -0,6                  | 9,3   | 1,6   | -0,3  | -1,4 | -1,7  | -1,6 |        |
|                                                       | 3 | Counting                   | 0                     | 1     | 5     | 7     | 8    | 0     | 0    | 21     |

|  |   |                            |      |       |       |       |       |       |       |        |
|--|---|----------------------------|------|-------|-------|-------|-------|-------|-------|--------|
|  |   | Expected counting          | 0,5  | 0,9   | 1,7   | 5,0   | 5,2   | 4,2   | 3,5   | 21,0   |
|  |   | % in Digicomp_PD           | 0,0% | 4,8%  | 23,8% | 33,3% | 38,1% | 0,0%  | 0,0%  | 100,0% |
|  |   | % in Digicomp_ICT_learngin | 0,0% | 7,7%  | 20,0% | 9,5%  | 10,5% | 0,0%  | 0,0%  | 6,8%   |
|  |   | % of Total                 | 0,0% | 0,3%  | 1,6%  | 2,3%  | 2,6%  | 0,0%  | 0,0%  | 6,8%   |
|  |   | Standardized residual      | -0,7 | 0,1   | 2,5   | 0,9   | 1,2   | -2,0  | -1,9  |        |
|  | 4 | Counting                   | 0    | 2     | 8     | 33    | 31    | 11    | 4     | 89     |
|  |   | Expected counting          | 2,0  | 3,8   | 7,2   | 21,4  | 22,0  | 17,6  | 15,0  | 89,0   |
|  |   | % in Digicomp_PD           | 0,0% | 2,2%  | 9,0%  | 37,1% | 34,8% | 12,4% | 4,5%  | 100,0% |
|  |   | % in Digicomp_ICT_learngin | 0,0% | 15,4% | 32,0% | 44,6% | 40,8% | 18,0% | 7,7%  | 28,9%  |
|  |   | % of Total                 | 0,0% | 0,6%  | 2,6%  | 10,7% | 10,1% | 3,6%  | 1,3%  | 28,9%  |
|  |   | Standardized residual      | -1,4 | -0,9  | 0,3   | 2,5   | 1,9   | -1,6  | -2,8  |        |
|  | 5 | Counting                   | 0    | 2     | 7     | 21    | 23    | 9     | 8     | 70     |
|  |   | Expected counting          | 1,6  | 3,0   | 5,7   | 16,8  | 17,3  | 13,9  | 11,8  | 70,0   |
|  |   | % in Digicomp_PD           | 0,0% | 2,9%  | 10,0% | 30,0% | 32,9% | 12,9% | 11,4% | 100,0% |
|  |   | % in Digicomp_ICT_learngin | 0,0% | 15,4% | 28,0% | 28,4% | 30,3% | 14,8% | 15,4% | 22,7%  |

|       |   |                                   |       |      |      |       |       |       |       |        |
|-------|---|-----------------------------------|-------|------|------|-------|-------|-------|-------|--------|
|       |   | % of Total                        | 0,0%  | 0,6% | 2,3% | 6,8%  | 7,5%  | 2,9%  | 2,6%  | 22,7%  |
|       |   | Standardize<br>d residual         | -1,3  | -0,6 | 0,6  | 1,0   | 1,4   | -1,3  | -1,1  |        |
|       | 6 | Counting                          | 0     | 0    | 0    | 5     | 6     | 25    | 6     | 42     |
|       |   | Expected<br>counting              | 1,0   | 1,8  | 3,4  | 10,1  | 10,4  | 8,3   | 7,1   | 42,0   |
|       |   | % in<br>Digicomp_P<br>D           | 0,0%  | 0,0% | 0,0% | 11,9% | 14,3% | 59,5% | 14,3% | 100,0% |
|       |   | % in<br>Digicomp_I<br>CT_learngin | 0,0%  | 0,0% | 0,0% | 6,8%  | 7,9%  | 41,0% | 11,5% | 13,6%  |
|       |   | % of Total                        | 0,0%  | 0,0% | 0,0% | 1,6%  | 1,9%  | 8,1%  | 1,9%  | 13,6%  |
|       |   | Standardize<br>d residual         | -1,0  | -1,3 | -1,8 | -1,6  | -1,4  | 5,8   | -0,4  |        |
|       | 7 | Counting                          | 2     | 0    | 2    | 5     | 7     | 15    | 34    | 65     |
|       |   | Expected<br>counting              | 1,5   | 2,7  | 5,3  | 15,6  | 16,0  | 12,9  | 11,0  | 65,0   |
|       |   | % in<br>Digicomp_P<br>D           | 3,1%  | 0,0% | 3,1% | 7,7%  | 10,8% | 23,1% | 52,3% | 100,0% |
|       |   | % in<br>Digicomp_I<br>CT_learngin | 28,6% | 0,0% | 8,0% | 6,8%  | 9,2%  | 24,6% | 65,4% | 21,1%  |
|       |   | % of Total                        | 0,6%  | 0,0% | 0,6% | 1,6%  | 2,3%  | 4,9%  | 11,0% | 21,1%  |
|       |   | Standardize<br>d residual         | 0,4   | -1,7 | -1,4 | -2,7  | -2,3  | 0,6   | 7,0   |        |
| Total |   | Counting                          | 7     | 13   | 25   | 74    | 76    | 61    | 52    | 308    |
|       |   | Expected<br>counting              | 7,0   | 13,0 | 25,0 | 74,0  | 76,0  | 61,0  | 52,0  | 308,0  |

|  |  |                                   |        |        |        |        |        |        |        |        |
|--|--|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|  |  | % in<br>Digicomp_P<br>D           | 2,3%   | 4,2%   | 8,1%   | 24,0%  | 24,7%  | 19,8%  | 16,9%  | 100,0% |
|  |  | % in<br>Digicomp_I<br>CT_learngin | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% |
|  |  | % of Total                        | 2,3%   | 4,2%   | 8,1%   | 24,0%  | 24,7%  | 19,8%  | 16,9%  | 100,0% |

|                      |                         |       |                               |
|----------------------|-------------------------|-------|-------------------------------|
| Symmetrical measures |                         |       |                               |
|                      |                         | Value | ValueApproximate significance |
| Nominal for nominal  | Contingency coefficient | 0,764 | 0,000                         |
| Valid cases nr.      |                         | 308   |                               |



| Digicomp_PD * Digicomp_ICT_collaboration |   |          |                            |   |   |   |   |   |   |       |
|------------------------------------------|---|----------|----------------------------|---|---|---|---|---|---|-------|
| Contingency table                        |   |          |                            |   |   |   |   |   |   |       |
|                                          |   |          | Digicomp_ICT_collaboration |   |   |   |   |   |   | Total |
|                                          |   |          | 1                          | 2 | 3 | 4 | 5 | 6 | 7 |       |
| Digicomp_PD                              | 1 | Counting | 4                          | 1 | 0 | 0 | 0 | 0 | 1 | 6     |

|  |   |                                  |       |       |       |       |       |      |       |        |
|--|---|----------------------------------|-------|-------|-------|-------|-------|------|-------|--------|
|  |   | Expected counting                | 0,2   | 0,3   | 0,3   | 0,9   | 1,2   | 1,3  | 1,7   | 6,0    |
|  |   | % in Digicomp_P D                | 66,7% | 16,7% | 0,0%  | 0,0%  | 0,0%  | 0,0% | 16,7% | 100,0% |
|  |   | % in Digicomp_I CT_collaboration | 33,3% | 5,9%  | 0,0%  | 0,0%  | 0,0%  | 0,0% | 1,1%  | 1,9%   |
|  |   | % of Total                       | 1,3%  | 0,3%  | 0,0%  | 0,0%  | 0,0%  | 0,0% | 0,3%  | 1,9%   |
|  |   | Standardized residual            | 7,8   | 1,2   | -0,6  | -0,9  | -1,1  | -1,1 | -0,6  |        |
|  | 2 | Counting                         | 0     | 9     | 2     | 1     | 2     | 0    | 1     | 15     |
|  |   | Expected counting                | 0,6   | 0,8   | 0,8   | 2,2   | 3,0   | 3,2  | 4,3   | 15,0   |
|  |   | % in Digicomp_P D                | 0,0%  | 60,0% | 13,3% | 6,7%  | 13,3% | 0,0% | 6,7%  | 100,0% |
|  |   | % in Digicomp_I CT_collaboration | 0,0%  | 52,9% | 11,8% | 2,2%  | 3,2%  | 0,0% | 1,1%  | 4,9%   |
|  |   | % of Total                       | 0,0%  | 2,9%  | 0,6%  | 0,3%  | 0,6%  | 0,0% | 0,3%  | 4,9%   |
|  |   | Standardized residual            | -0,8  | 9,0   | 1,3   | -0,8  | -0,6  | -1,8 | -1,6  |        |
|  | 3 | Counting                         | 0     | 2     | 4     | 8     | 4     | 2    | 1     | 21     |
|  |   | Expected counting                | 0,8   | 1,2   | 1,2   | 3,1   | 4,2   | 4,5  | 6,1   | 21,0   |
|  |   | % in Digicomp_P D                | 0,0%  | 9,5%  | 19,0% | 38,1% | 19,0% | 9,5% | 4,8%  | 100,0% |

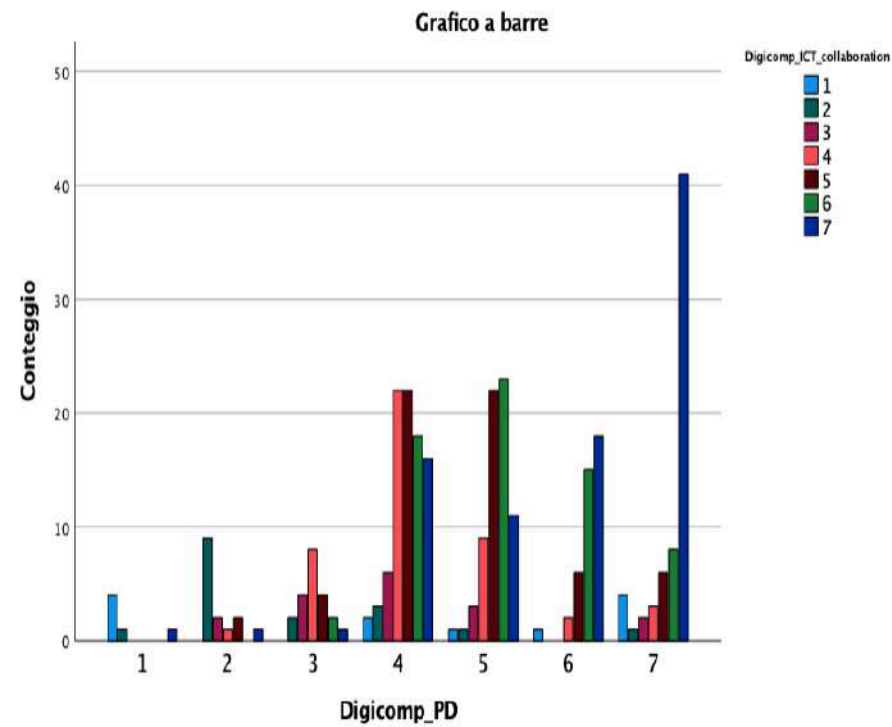
|  |   |                                  |       |       |       |       |       |       |       |        |
|--|---|----------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|
|  |   | % in Digicomp_I CT_collaboration | 0,0%  | 11,8% | 23,5% | 17,8% | 6,5%  | 3,0%  | 1,1%  | 6,8%   |
|  |   | % of Total                       | 0,0%  | 0,6%  | 1,3%  | 2,6%  | 1,3%  | 0,6%  | 0,3%  | 6,8%   |
|  |   | Standardized residual            | -0,9  | 0,8   | 2,6   | 2,8   | -0,1  | -1,2  | -2,1  |        |
|  | 4 | Counting                         | 2     | 3     | 6     | 22    | 22    | 18    | 16    | 89     |
|  |   | Expected counting                | 3,5   | 4,9   | 4,9   | 13,0  | 17,9  | 19,1  | 25,7  | 89,0   |
|  |   | % in Digicomp_PD                 | 2,2%  | 3,4%  | 6,7%  | 24,7% | 24,7% | 20,2% | 18,0% | 100,0% |
|  |   | % in Digicomp_I CT_collaboration | 16,7% | 17,6% | 35,3% | 48,9% | 35,5% | 27,3% | 18,0% | 28,9%  |
|  |   | % of Total                       | 0,6%  | 1,0%  | 1,9%  | 7,1%  | 7,1%  | 5,8%  | 5,2%  | 28,9%  |
|  |   | Standardized residual            | -0,8  | -0,9  | 0,5   | 2,5   | 1,0   | -0,2  | -1,9  |        |
|  | 5 | Counting                         | 1     | 1     | 3     | 9     | 22    | 23    | 11    | 70     |
|  |   | Expected counting                | 2,7   | 3,9   | 3,9   | 10,2  | 14,1  | 15,0  | 20,2  | 70,0   |
|  |   | % in Digicomp_PD                 | 1,4%  | 1,4%  | 4,3%  | 12,9% | 31,4% | 32,9% | 15,7% | 100,0% |
|  |   | % in Digicomp_I CT_collaboration | 8,3%  | 5,9%  | 17,6% | 20,0% | 35,5% | 34,8% | 12,4% | 22,7%  |
|  |   | % of Total                       | 0,3%  | 0,3%  | 1,0%  | 2,9%  | 7,1%  | 7,5%  | 3,6%  | 22,7%  |

|       |   |                                            |       |      |       |      |       |       |       |        |
|-------|---|--------------------------------------------|-------|------|-------|------|-------|-------|-------|--------|
|       |   | Standardize<br>d residual                  | -1,0  | -1,5 | -0,4  | -0,4 | 2,1   | 2,1   | -2,1  |        |
|       | 6 | Counting                                   | 1     | 0    | 0     | 2    | 6     | 15    | 18    | 42     |
|       |   | Expected<br>counting                       | 1,6   | 2,3  | 2,3   | 6,1  | 8,5   | 9,0   | 12,1  | 42,0   |
|       |   | % in<br>Digicomp_P<br>D                    | 2,4%  | 0,0% | 0,0%  | 4,8% | 14,3% | 35,7% | 42,9% | 100,0% |
|       |   | % in<br>Digicomp_I<br>CT_collabor<br>ation | 8,3%  | 0,0% | 0,0%  | 4,4% | 9,7%  | 22,7% | 20,2% | 13,6%  |
|       |   | % of Total                                 | 0,3%  | 0,0% | 0,0%  | 0,6% | 1,9%  | 4,9%  | 5,8%  | 13,6%  |
|       |   | Standardize<br>d residual                  | -0,5  | -1,5 | -1,5  | -1,7 | -0,8  | 2,0   | 1,7   |        |
|       | 7 | Counting                                   | 4     | 1    | 2     | 3    | 6     | 8     | 41    | 65     |
|       |   | Expected<br>counting                       | 2,5   | 3,6  | 3,6   | 9,5  | 13,1  | 13,9  | 18,8  | 65,0   |
|       |   | % in<br>Digicomp_P<br>D                    | 6,2%  | 1,5% | 3,1%  | 4,6% | 9,2%  | 12,3% | 63,1% | 100,0% |
|       |   | % in<br>Digicomp_I<br>CT_collabor<br>ation | 33,3% | 5,9% | 11,8% | 6,7% | 9,7%  | 12,1% | 46,1% | 21,1%  |
|       |   | % of Total                                 | 1,3%  | 0,3% | 0,6%  | 1,0% | 1,9%  | 2,6%  | 13,3% | 21,1%  |
|       |   | Standardize<br>d residual                  | 0,9   | -1,4 | -0,8  | -2,1 | -2,0  | -1,6  | 5,1   |        |
| Total |   | Counting                                   | 12    | 17   | 17    | 45   | 62    | 66    | 89    | 308    |
|       |   | Expected<br>counting                       | 12,0  | 17,0 | 17,0  | 45,0 | 62,0  | 66,0  | 89,0  | 308,0  |



|  |  |                                 |        |        |        |        |        |        |        |        |
|--|--|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|  |  | % in Digicomp_PD                | 3,9%   | 5,5%   | 5,5%   | 14,6%  | 20,1%  | 21,4%  | 28,9%  | 100,0% |
|  |  | % in Digicomp_ICT_collaboration | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% |
|  |  | % of Total                      | 3,9%   | 5,5%   | 5,5%   | 14,6%  | 20,1%  | 21,4%  | 28,9%  | 100,0% |

|                      |                         |       |                               |
|----------------------|-------------------------|-------|-------------------------------|
| Symmetrical measures |                         |       |                               |
|                      |                         | Value | ValueApproximate significance |
| Nominal for nominal  | Contingency coefficient | 0,678 | 0,000                         |
| Valid cases nr.      |                         | 308   |                               |



|                                              |
|----------------------------------------------|
| Digicom_ICT_feedback * Digicomp_ICT_learngin |
| Contingency table                            |

|                          |   |                                   | Digicomp_I<br>CT_learngin |       |       |       |       |       |       | Total  |
|--------------------------|---|-----------------------------------|---------------------------|-------|-------|-------|-------|-------|-------|--------|
|                          |   |                                   | 1                         | 2     | 3     | 4     | 5     | 6     | 7     |        |
| Digicom_IC<br>T_feedback | 1 | Counting                          | 6                         | 0     | 0     | 3     | 1     | 6     | 2     | 18     |
|                          |   | Expected<br>counting              | 0,4                       | 0,8   | 1,5   | 4,3   | 4,4   | 3,6   | 3,0   | 18,0   |
|                          |   | % in<br>Digicom_IC<br>T_feedback  | 33,3%                     | 0,0%  | 0,0%  | 16,7% | 5,6%  | 33,3% | 11,1% | 100,0% |
|                          |   | % in<br>Digicomp_I<br>CT_learngin | 85,7%                     | 0,0%  | 0,0%  | 4,1%  | 1,3%  | 9,8%  | 3,8%  | 5,8%   |
|                          |   | % of Total                        | 1,9%                      | 0,0%  | 0,0%  | 1,0%  | 0,3%  | 1,9%  | 0,6%  | 5,8%   |
|                          |   | Standardize<br>d residual         | 8,7                       | -0,9  | -1,2  | -0,6  | -1,6  | 1,3   | -0,6  |        |
|                          | 2 | Counting                          | 0                         | 5     | 4     | 4     | 2     | 0     | 1     | 16     |
|                          |   | Expected<br>counting              | 0,4                       | 0,7   | 1,3   | 3,8   | 3,9   | 3,2   | 2,7   | 16,0   |
|                          |   | % in<br>Digicom_IC<br>T_feedback  | 0,0%                      | 31,3% | 25,0% | 25,0% | 12,5% | 0,0%  | 6,3%  | 100,0% |
|                          |   | % in<br>Digicomp_I<br>CT_learngin | 0,0%                      | 38,5% | 16,0% | 5,4%  | 2,6%  | 0,0%  | 1,9%  | 5,2%   |
|                          |   | % of Total                        | 0,0%                      | 1,6%  | 1,3%  | 1,3%  | 0,6%  | 0,0%  | 0,3%  | 5,2%   |
|                          |   | Standardize<br>d residual         | -0,6                      | 5,3   | 2,4   | 0,1   | -1,0  | -1,8  | -1,0  |        |
|                          | 3 | Counting                          | 0                         | 2     | 7     | 1     | 5     | 0     | 1     | 16     |
|                          |   | Expected<br>counting              | 0,4                       | 0,7   | 1,3   | 3,8   | 3,9   | 3,2   | 2,7   | 16,0   |

|  |   |                             |      |       |       |       |       |      |      |        |
|--|---|-----------------------------|------|-------|-------|-------|-------|------|------|--------|
|  |   | % in Digicom_IC T_feedback  | 0,0% | 12,5% | 43,8% | 6,3%  | 31,3% | 0,0% | 6,3% | 100,0% |
|  |   | % in Digicomp_I CT_learngin | 0,0% | 15,4% | 28,0% | 1,4%  | 6,6%  | 0,0% | 1,9% | 5,2%   |
|  |   | % of Total                  | 0,0% | 0,6%  | 2,3%  | 0,3%  | 1,6%  | 0,0% | 0,3% | 5,2%   |
|  |   | Standardize d residual      | -0,6 | 1,6   | 5,0   | -1,5  | 0,5   | -1,8 | -1,0 |        |
|  | 4 | Counting                    | 0    | 3     | 8     | 23    | 14    | 3    | 1    | 52     |
|  |   | Expected counting           | 1,2  | 2,2   | 4,2   | 12,5  | 12,8  | 10,3 | 8,8  | 52,0   |
|  |   | % in Digicom_IC T_feedback  | 0,0% | 5,8%  | 15,4% | 44,2% | 26,9% | 5,8% | 1,9% | 100,0% |
|  |   | % in Digicomp_I CT_learngin | 0,0% | 23,1% | 32,0% | 31,1% | 18,4% | 4,9% | 1,9% | 16,9%  |
|  |   | % of Total                  | 0,0% | 1,0%  | 2,6%  | 7,5%  | 4,5%  | 1,0% | 0,3% | 16,9%  |
|  |   | Standardize d residual      | -1,1 | 0,5   | 1,8   | 3,0   | 0,3   | -2,3 | -2,6 |        |
|  | 5 | Counting                    | 0    | 1     | 1     | 13    | 29    | 3    | 4    | 51     |
|  |   | Expected counting           | 1,2  | 2,2   | 4,1   | 12,3  | 12,6  | 10,1 | 8,6  | 51,0   |
|  |   | % in Digicom_IC T_feedback  | 0,0% | 2,0%  | 2,0%  | 25,5% | 56,9% | 5,9% | 7,8% | 100,0% |
|  |   | % in Digicomp_I CT_learngin | 0,0% | 7,7%  | 4,0%  | 17,6% | 38,2% | 4,9% | 7,7% | 16,6%  |
|  |   | % of Total                  | 0,0% | 0,3%  | 0,3%  | 4,2%  | 9,4%  | 1,0% | 1,3% | 16,6%  |

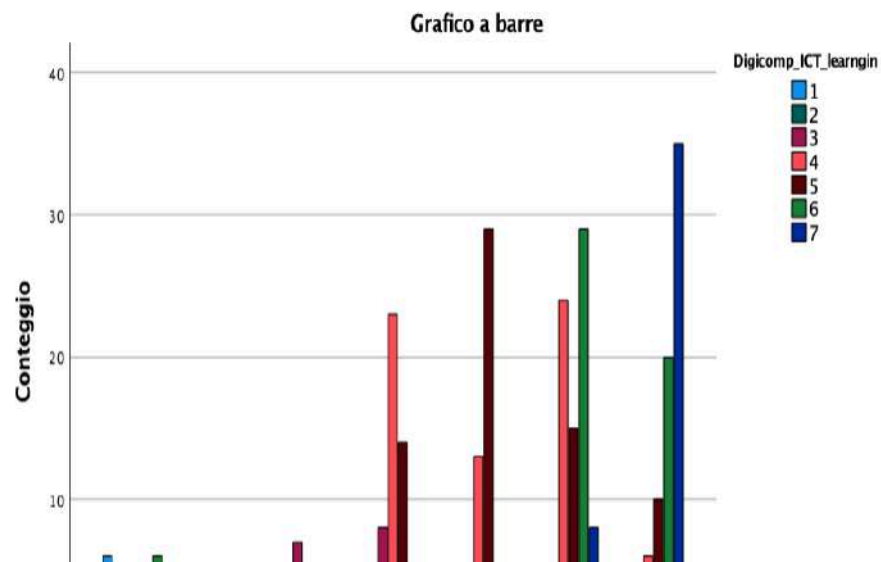
|       |   |                                   |       |      |       |       |       |       |       |        |
|-------|---|-----------------------------------|-------|------|-------|-------|-------|-------|-------|--------|
|       |   | Standardize<br>d residual         | -1,1  | -0,8 | -1,5  | 0,2   | 4,6   | -2,2  | -1,6  |        |
|       | 6 | Counting                          | 0     | 1    | 3     | 24    | 15    | 29    | 8     | 80     |
|       |   | Expected<br>counting              | 1,8   | 3,4  | 6,5   | 19,2  | 19,7  | 15,8  | 13,5  | 80,0   |
|       |   | % in<br>Digicom_IC<br>T feedback  | 0,0%  | 1,3% | 3,8%  | 30,0% | 18,8% | 36,3% | 10,0% | 100,0% |
|       |   | % in<br>Digicomp_I<br>CT_learngin | 0,0%  | 7,7% | 12,0% | 32,4% | 19,7% | 47,5% | 15,4% | 26,0%  |
|       |   | % of Total                        | 0,0%  | 0,3% | 1,0%  | 7,8%  | 4,9%  | 9,4%  | 2,6%  | 26,0%  |
|       |   | Standardize<br>d residual         | -1,3  | -1,3 | -1,4  | 1,1   | -1,1  | 3,3   | -1,5  |        |
|       | 7 | Counting                          | 1     | 1    | 2     | 6     | 10    | 20    | 35    | 75     |
|       |   | Expected<br>counting              | 1,7   | 3,2  | 6,1   | 18,0  | 18,5  | 14,9  | 12,7  | 75,0   |
|       |   | % in<br>Digicom_IC<br>T feedback  | 1,3%  | 1,3% | 2,7%  | 8,0%  | 13,3% | 26,7% | 46,7% | 100,0% |
|       |   | % in<br>Digicomp_I<br>CT_learngin | 14,3% | 7,7% | 8,0%  | 8,1%  | 13,2% | 32,8% | 67,3% | 24,4%  |
|       |   | % of Total                        | 0,3%  | 0,3% | 0,6%  | 1,9%  | 3,2%  | 6,5%  | 11,4% | 24,4%  |
|       |   | Standardize<br>d residual         | -0,5  | -1,2 | -1,7  | -2,8  | -2,0  | 1,3   | 6,3   |        |
| Total |   | Counting                          | 7     | 13   | 25    | 74    | 76    | 61    | 52    | 308    |
|       |   | Expected<br>counting              | 7,0   | 13,0 | 25,0  | 74,0  | 76,0  | 61,0  | 52,0  | 308,0  |
|       |   | % in<br>Digicom_IC<br>T feedback  | 2,3%  | 4,2% | 8,1%  | 24,0% | 24,7% | 19,8% | 16,9% | 100,0% |

|  |  |                            |        |        |        |        |        |        |        |        |
|--|--|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|  |  | % in Digicomp_ICT_learngin | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% |
|  |  | % of Total                 | 2,3%   | 4,2%   | 8,1%   | 24,0%  | 24,7%  | 19,8%  | 16,9%  | 100,0% |

| Test of chi-square                                                                                |          |    |                                     |
|---------------------------------------------------------------------------------------------------|----------|----|-------------------------------------|
|                                                                                                   | Value    | df | Asymptotic significance (bilateral) |
| Chi-square di Pearson                                                                             | 294,666a | 36 | 0,000                               |
| Verisimilitude ratio                                                                              | 216,677  | 36 | 0,000                               |
| Linear by linear association                                                                      | 73,076   | 1  | 0,000                               |
| Valid cases nr.                                                                                   | 308      |    |                                     |
| a. 31 celle (63,3%) hanno un Expected counting inferiore a 5. Il Expected counting Minimum è ,36. |          |    |                                     |

Digicom\_ICT\_feedback \* Digicomp\_ICT\_collaboration

| Contingency table          |  |  |   |   |   |   |   |   |       |
|----------------------------|--|--|---|---|---|---|---|---|-------|
| Digicomp_ICT_collaboration |  |  |   |   |   |   |   |   | Total |
|                            |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7     |



|                          |   |                                 |       |       |       |       |       |       |       |        |
|--------------------------|---|---------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| Digicom_IC<br>T_feedback | 1 | Counting                        | 9     | 1     | 0     | 1     | 0     | 3     | 4     | 18     |
|                          |   | Expected counting               | 0,7   | 1,0   | 1,0   | 2,6   | 3,6   | 3,9   | 5,2   | 18,0   |
|                          |   | % in Digicom_IC T_feedback      | 50,0% | 5,6%  | 0,0%  | 5,6%  | 0,0%  | 16,7% | 22,2% | 100,0% |
|                          |   | % in Digicom_I CT_collaboration | 75,0% | 5,9%  | 0,0%  | 2,2%  | 0,0%  | 4,5%  | 4,5%  | 5,8%   |
|                          |   | % of Total                      | 2,9%  | 0,3%  | 0,0%  | 0,3%  | 0,0%  | 1,0%  | 1,3%  | 5,8%   |
|                          |   | Standardized residual           | 9,9   | 0,0   | -1,0  | -1,0  | -1,9  | -0,4  | -0,5  |        |
|                          | 2 | Counting                        | 0     | 9     | 0     | 2     | 3     | 2     | 0     | 16     |
|                          |   | Expected counting               | 0,6   | 0,9   | 0,9   | 2,3   | 3,2   | 3,4   | 4,6   | 16,0   |
|                          |   | % in Digicom_IC T_feedback      | 0,0%  | 56,3% | 0,0%  | 12,5% | 18,8% | 12,5% | 0,0%  | 100,0% |
|                          |   | % in Digicom_I CT_collaboration | 0,0%  | 52,9% | 0,0%  | 4,4%  | 4,8%  | 3,0%  | 0,0%  | 5,2%   |
|                          |   | % of Total                      | 0,0%  | 2,9%  | 0,0%  | 0,6%  | 1,0%  | 0,6%  | 0,0%  | 5,2%   |
|                          |   | Standardized residual           | -0,8  | 8,6   | -0,9  | -0,2  | -0,1  | -0,8  | -2,2  |        |
|                          | 3 | Counting                        | 0     | 2     | 7     | 6     | 1     | 0     | 0     | 16     |
|                          |   | Expected counting               | 0,6   | 0,9   | 0,9   | 2,3   | 3,2   | 3,4   | 4,6   | 16,0   |
|                          |   | % in Digicom_IC T_feedback      | 0,0%  | 12,5% | 43,8% | 37,5% | 6,3%  | 0,0%  | 0,0%  | 100,0% |

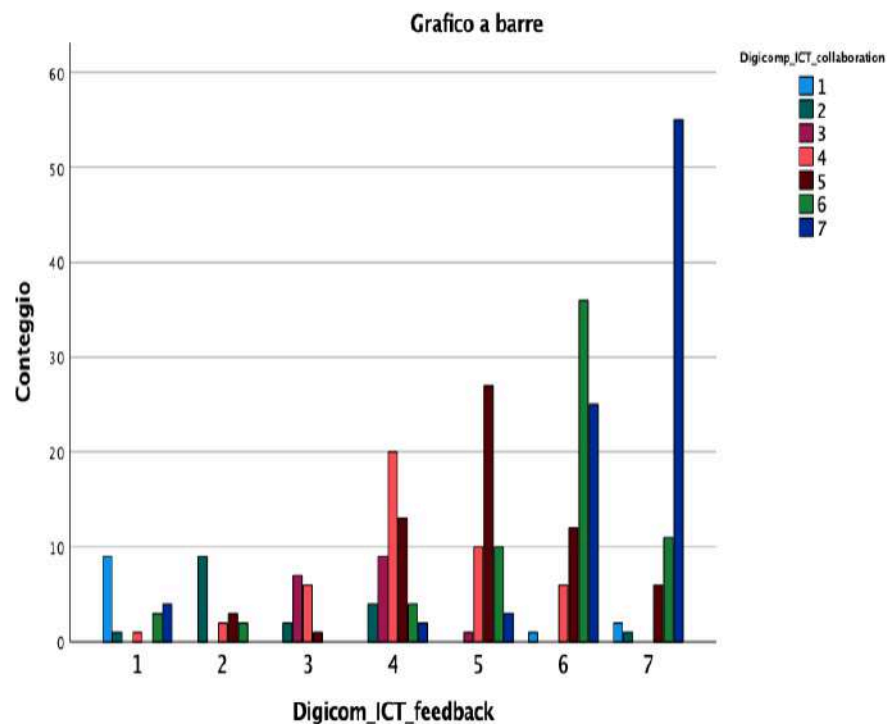
|  |   |                                  |      |       |       |       |       |       |      |        |
|--|---|----------------------------------|------|-------|-------|-------|-------|-------|------|--------|
|  |   | % in Digicomp_I CT_collaboration | 0,0% | 11,8% | 41,2% | 13,3% | 1,6%  | 0,0%  | 0,0% | 5,2%   |
|  |   | % of Total                       | 0,0% | 0,6%  | 2,3%  | 1,9%  | 0,3%  | 0,0%  | 0,0% | 5,2%   |
|  |   | Standardized residual            | -0,8 | 1,2   | 6,5   | 2,4   | -1,2  | -1,9  | -2,2 |        |
|  | 4 | Counting                         | 0    | 4     | 9     | 20    | 13    | 4     | 2    | 52     |
|  |   | Expected counting                | 2,0  | 2,9   | 2,9   | 7,6   | 10,5  | 11,1  | 15,0 | 52,0   |
|  |   | % in Digicom_IC T_feedback       | 0,0% | 7,7%  | 17,3% | 38,5% | 25,0% | 7,7%  | 3,8% | 100,0% |
|  |   | % in Digicomp_I CT_collaboration | 0,0% | 23,5% | 52,9% | 44,4% | 21,0% | 6,1%  | 2,2% | 16,9%  |
|  |   | % of Total                       | 0,0% | 1,3%  | 2,9%  | 6,5%  | 4,2%  | 1,3%  | 0,6% | 16,9%  |
|  |   | Standardized residual            | -1,4 | 0,7   | 3,6   | 4,5   | 0,8   | -2,1  | -3,4 |        |
|  | 5 | Counting                         | 0    | 0     | 1     | 10    | 27    | 10    | 3    | 51     |
|  |   | Expected counting                | 2,0  | 2,8   | 2,8   | 7,5   | 10,3  | 10,9  | 14,7 | 51,0   |
|  |   | % in Digicom_IC T_feedback       | 0,0% | 0,0%  | 2,0%  | 19,6% | 52,9% | 19,6% | 5,9% | 100,0% |
|  |   | % in Digicomp_I CT_collaboration | 0,0% | 0,0%  | 5,9%  | 22,2% | 43,5% | 15,2% | 3,4% | 16,6%  |
|  |   | % of Total                       | 0,0% | 0,0%  | 0,3%  | 3,2%  | 8,8%  | 3,2%  | 1,0% | 16,6%  |

|  |       |                                            |       |      |      |       |       |       |       |        |
|--|-------|--------------------------------------------|-------|------|------|-------|-------|-------|-------|--------|
|  |       | Standardize<br>d residual                  | -1,4  | -1,7 | -1,1 | 0,9   | 5,2   | -0,3  | -3,1  |        |
|  | 6     | Counting                                   | 1     | 0    | 0    | 6     | 12    | 36    | 25    | 80     |
|  |       | Expected<br>counting                       | 3,1   | 4,4  | 4,4  | 11,7  | 16,1  | 17,1  | 23,1  | 80,0   |
|  |       | % in<br>Digicom_IC<br>T_feedback           | 1,3%  | 0,0% | 0,0% | 7,5%  | 15,0% | 45,0% | 31,3% | 100,0% |
|  |       | % in<br>Digicomp_I<br>CT_collabor<br>ation | 8,3%  | 0,0% | 0,0% | 13,3% | 19,4% | 54,5% | 28,1% | 26,0%  |
|  |       | % of Total                                 | 0,3%  | 0,0% | 0,0% | 1,9%  | 3,9%  | 11,7% | 8,1%  | 26,0%  |
|  |       | Standardize<br>d residual                  | -1,2  | -2,1 | -2,1 | -1,7  | -1,0  | 4,6   | 0,4   |        |
|  | 7     | Counting                                   | 2     | 1    | 0    | 0     | 6     | 11    | 55    | 75     |
|  |       | Expected<br>counting                       | 2,9   | 4,1  | 4,1  | 11,0  | 15,1  | 16,1  | 21,7  | 75,0   |
|  |       | % in<br>Digicom_IC<br>T_feedback           | 2,7%  | 1,3% | 0,0% | 0,0%  | 8,0%  | 14,7% | 73,3% | 100,0% |
|  |       | % in<br>Digicomp_I<br>CT_collabor<br>ation | 16,7% | 5,9% | 0,0% | 0,0%  | 9,7%  | 16,7% | 61,8% | 24,4%  |
|  |       | % of Total                                 | 0,6%  | 0,3% | 0,0% | 0,0%  | 1,9%  | 3,6%  | 17,9% | 24,4%  |
|  |       | Standardize<br>d residual                  | -0,5  | -1,5 | -2,0 | -3,3  | -2,3  | -1,3  | 7,2   |        |
|  | Total | Counting                                   | 12    | 17   | 17   | 45    | 62    | 66    | 89    | 308    |
|  |       | Expected<br>counting                       | 12,0  | 17,0 | 17,0 | 45,0  | 62,0  | 66,0  | 89,0  | 308,0  |



|  |  |                                  |        |        |        |        |        |        |        |        |
|--|--|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|  |  | % in Digicom_IC T_feedback       | 3,9%   | 5,5%   | 5,5%   | 14,6%  | 20,1%  | 21,4%  | 28,9%  | 100,0% |
|  |  | % in Digicomp_I CT_collaboration | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% | 100,0% |
|  |  | % of Total                       | 3,9%   | 5,5%   | 5,5%   | 14,6%  | 20,1%  | 21,4%  | 28,9%  | 100,0% |

| Test of chi-square                                                                                |          |    |                                     |
|---------------------------------------------------------------------------------------------------|----------|----|-------------------------------------|
|                                                                                                   | Value    | df | Asymptotic significance (bilateral) |
| Chi-square di Pearson                                                                             | 452,337a | 36 | 0,000                               |
| Verisimilitude ratio                                                                              | 334,904  | 36 | 0,000                               |
| Linear by linear association                                                                      | 129,469  | 1  | 0,000                               |
| Valid cases nr.                                                                                   | 308      |    |                                     |
| a. 32 celle (65,3%) hanno un Expected counting inferiore a 5. Il Expected counting Minimum è ,62. |          |    |                                     |



Scala: Reliability Inclusion\_SE

|                                     |             |                                              |                      |                            |
|-------------------------------------|-------------|----------------------------------------------|----------------------|----------------------------|
| Reliability statistics              |             |                                              |                      |                            |
| Alpha di Cronbach                   |             | Cronbach Alfa based on standardized elements |                      | Elements Nr                |
| 0,812                               |             | 0,813                                        |                      | 4                          |
| Correlation matrix between elements |             |                                              |                      |                            |
|                                     | Digicomp_PD | Digicomp_ICT_learngin                        | Digicom_ICT_feedback | Digicomp_ICT_collaboration |
| Digicomp_PD                         | 1,000       | 0,601                                        | 0,421                | 0,479                      |
| Digicomp_ICT_learngin               | 0,601       | 1,000                                        | 0,488                | 0,489                      |
| Digicom_ICT_feedback                | 0,421       | 0,488                                        | 1,000                | 0,649                      |

|                            |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Digicomp_ICT_collaboration | 0,479 | 0,489 | 0,649 | 1,000 |
|----------------------------|-------|-------|-------|-------|

| Items statistics           |       |                    |     |
|----------------------------|-------|--------------------|-----|
|                            | Media | Standard deviation | N   |
| Digicomp_PD                | 4,91  | 1,514              | 308 |
| Digicomp_ICT_learnin       | 4,92  | 1,477              | 308 |
| Digicom ICT feedback       | 5,08  | 1,737              | 308 |
| Digicomp_ICT_collaboration | 5,21  | 1,679              | 308 |

| Summary elements statistics   |       |         |         |       |                 |          |             |
|-------------------------------|-------|---------|---------|-------|-----------------|----------|-------------|
|                               | Media | Minimum | Maximum | Range | Maximum/Minimum | Variance | Elements Nr |
| Items average                 | 5,031 | 4,909   | 5,214   | 0,305 | 1,062           | 0,022    | 4           |
| Correlations between elements | 0,521 | 0,421   | 0,649   | 0,229 | 1,544           | 0,007    | 4           |

| Item-total statistics      |                                        |                                    |                                  |                                  |                                            |
|----------------------------|----------------------------------------|------------------------------------|----------------------------------|----------------------------------|--------------------------------------------|
|                            | Medium scale if the element is removed | Variance if the element is deleted | Item-Total correlation corrected | Correlazione multipla quadratica | Cronbach's Alpha if the element is removed |
| Digicomp_PD                | 15,21                                  | 16,736                             | 0,592                            | 0,408                            | 0,781                                      |
| Digicomp_ICT_learnin       | 15,21                                  | 16,563                             | 0,634                            | 0,439                            | 0,764                                      |
| Digicom ICT feedback       | 15,04                                  | 14,845                             | 0,635                            | 0,461                            | 0,763                                      |
| Digicomp_ICT_collaboration | 14,91                                  | 14,891                             | 0,667                            | 0,483                            | 0,746                                      |

| Scale statistics |
|------------------|
|------------------|

|       |          |                    |             |
|-------|----------|--------------------|-------------|
| Media | Variance | Standard deviation | Elements Nr |
| 20,12 | 26,363   | 5,134              | 4           |

## SECTION 8: GPE

| Statistiche        |         |                                     |                                        |                                       |                                         |                             |                                        |                                        |                                              |                              |                                            |                                             |
|--------------------|---------|-------------------------------------|----------------------------------------|---------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|----------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------|---------------------------------------------|
|                    |         | PD_need<br>s_knowledge_subj<br>ects | PD_need<br>s_pedago<br>gy_subj<br>ects | PD_need<br>s_knowledge_curri<br>culum | PD_need<br>s_studen<br>t_assess<br>ment | PD_need<br>s_ICT_ski<br>lls | PD_need<br>s_studen<br>t_behavi<br>our | PD_need<br>s_school<br>_manag<br>ement | PD_need<br>s_individ<br>ualized_l<br>earning | PD_need<br>s_teachin<br>g_SN | PD_need<br>s_multicu<br>ltural_set<br>ting | PD_need<br>s_crosscu<br>rricular_s<br>kills |
| N                  | Valid   | 308                                 | 308                                    | 308                                   | 308                                     | 308                         | 308                                    | 308                                    | 308                                          | 308                          | 308                                        | 308                                         |
|                    | Missing | 0                                   | 0                                      | 0                                     | 0                                       | 0                           | 0                                      | 0                                      | 0                                            | 0                            | 0                                          | 0                                           |
| Media              |         | 2,23                                | 2,39                                   | 2,14                                  | 2,65                                    | 2,80                        | 2,68                                   | 2,40                                   | 2,65                                         | 2,81                         | 2,80                                       | 2,80                                        |
| Median             |         | 2,00                                | 2,00                                   | 2,00                                  | 3,00                                    | 3,00                        | 3,00                                   | 2,00                                   | 3,00                                         | 3,00                         | 3,00                                       | 3,00                                        |
| Standard deviation |         | 0,841                               | 0,853                                  | 0,860                                 | 0,903                                   | 0,886                       | 0,967                                  | 0,975                                  | 0,941                                        | 0,956                        | 0,943                                      | 0,983                                       |
| Percentili         | 25      | 2,00                                | 2,00                                   | 2,00                                  | 2,00                                    | 2,00                        | 2,00                                   | 2,00                                   | 2,00                                         | 2,00                         | 2,00                                       | 2,00                                        |
|                    | 50      | 2,00                                | 2,00                                   | 2,00                                  | 3,00                                    | 3,00                        | 3,00                                   | 2,00                                   | 3,00                                         | 3,00                         | 3,00                                       | 3,00                                        |
|                    | 75      | 3,00                                | 3,00                                   | 3,00                                  | 3,00                                    | 3,00                        | 3,00                                   | 3,00                                   | 3,00                                         | 4,00                         | 4,00                                       | 4,00                                        |

## FREQUENCIES TABLES

### Item 20.1 Knowledge and understanding of my subject field(s)

| PD_needs_knowledge_subjects |                          |           |            |                  |                       |
|-----------------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                             |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1No need at present      | 64        | 20,8       | 20,8             | 20,8                  |
|                             | 2Low level of need       | 125       | 40,6       | 40,6             | 61,4                  |
|                             | 3 Moderate level of need | 102       | 33,1       | 33,1             | 94,5                  |
|                             | 4 High level of need     | 17        | 5,5        | 5,5              | 100,0                 |

|  |       |     |       |       |  |
|--|-------|-----|-------|-------|--|
|  | Total | 308 | 100,0 | 100,0 |  |
|--|-------|-----|-------|-------|--|

**Item 20.2** Pedagogical competencies in teaching my subject field(s)

| PD_needs_pedagogy_subjects |                          |           |            |                  |                       |
|----------------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                            |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1No need at present      | 48        | 15,6       | 15,6             | 15,6                  |
|                            | 2Low level of need       | 119       | 38,6       | 38,6             | 54,2                  |
|                            | 3 Moderate level of need | 114       | 37,0       | 37,0             | 91,2                  |
|                            | 4 High level of need     | 27        | 8,8        | 8,8              | 100,0                 |
|                            | Total                    | 308       | 100,0      | 100,0            |                       |
|                            |                          |           |            |                  |                       |
|                            |                          |           |            |                  |                       |
|                            |                          |           |            |                  |                       |

**Item 20.3** Knowledge of the curriculum

| PD_needs_knowledge_curriculum |                          |           |            |                  |                       |
|-------------------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                               |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                         | 1No need at present      | 76        | 24,7       | 24,7             | 24,7                  |
|                               | 2Low level of need       | 132       | 42,9       | 42,9             | 67,5                  |
|                               | 3 Moderate level of need | 81        | 26,3       | 26,3             | 93,8                  |
|                               | 4 High level of need     | 19        | 6,2        | 6,2              | 100,0                 |
|                               | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 20.4** Student assessment practices

| PD_needs_student_assessment |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|
|-----------------------------|--|--|--|--|--|

|       |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
|-------|--------------------------|-----------|------------|------------------|-----------------------|
| Valid | 1No need at present      | 35        | 11,4       | 11,4             | 11,4                  |
|       | 2Low level of need       | 93        | 30,2       | 30,2             | 41,6                  |
|       | 3 Moderate level of need | 125       | 40,6       | 40,6             | 82,1                  |
|       | 4 High level of need     | 55        | 17,9       | 17,9             | 100,0                 |
|       | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 20. 5 ICT (information and communication technology) skills for teaching**

| PD_needs_ICT_skills |                          |           |            |                  |                       |
|---------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                     |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid               | 1No need at present      | 29        | 9,4        | 9,4              | 9,4                   |
|                     | 2Low level of need       | 70        | 22,7       | 22,7             | 32,1                  |
|                     | 3 Moderate level of need | 142       | 46,1       | 46,1             | 78,2                  |
|                     | 4 High level of need     | 67        | 21,8       | 21,8             | 100,0                 |
|                     | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 20. 6 Student behaviour and classroom management**

| PD_needs_student_behaviour |                          |           |            |                  |                       |
|----------------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                            |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1No need at present      | 38        | 12,3       | 12,3             | 12,3                  |
|                            | 2Low level of need       | 94        | 30,5       | 30,5             | 42,9                  |
|                            | 3 Moderate level of need | 104       | 33,8       | 33,8             | 76,6                  |
|                            | 4 High level of need     | 72        | 23,4       | 23,4             | 100,0                 |
|                            | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 20. 7 School management and administration**

|                            |                          |           |            |                  |                       |
|----------------------------|--------------------------|-----------|------------|------------------|-----------------------|
| PD_needs_school_management |                          |           |            |                  |                       |
|                            |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1No need at present      | 62        | 20,1       | 20,1             | 20,1                  |
|                            | 2Low level of need       | 109       | 35,4       | 35,4             | 55,5                  |
|                            | 3 Moderate level of need | 90        | 29,2       | 29,2             | 84,7                  |
|                            | 4 High level of need     | 47        | 15,3       | 15,3             | 100,0                 |
|                            | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 20. 8 Approaches to individualised learning]"**

|                                  |                          |           |            |                  |                       |
|----------------------------------|--------------------------|-----------|------------|------------------|-----------------------|
| PD_needs_individualized_learning |                          |           |            |                  |                       |
|                                  |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                            | 1No need at present      | 37        | 12,0       | 12,0             | 12,0                  |
|                                  | 2Low level of need       | 97        | 31,5       | 31,5             | 43,5                  |
|                                  | 3 Moderate level of need | 110       | 35,7       | 35,7             | 79,2                  |
|                                  | 4 High level of need     | 64        | 20,8       | 20,8             | 100,0                 |
|                                  | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 20. 9 Teaching students with special needs**

|                      |                          |           |            |                  |                       |
|----------------------|--------------------------|-----------|------------|------------------|-----------------------|
| PD_needs_teaching_SN |                          |           |            |                  |                       |
|                      |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                | 1No need at present      | 30        | 9,7        | 9,7              | 9,7                   |
|                      | 2Low level of need       | 86        | 27,9       | 27,9             | 37,7                  |
|                      | 3 Moderate level of need | 106       | 34,4       | 34,4             | 72,1                  |
|                      | 4 High level of need     | 86        | 27,9       | 27,9             | 100,0                 |
|                      | Total                    | 308       | 100,0      | 100,0            |                       |

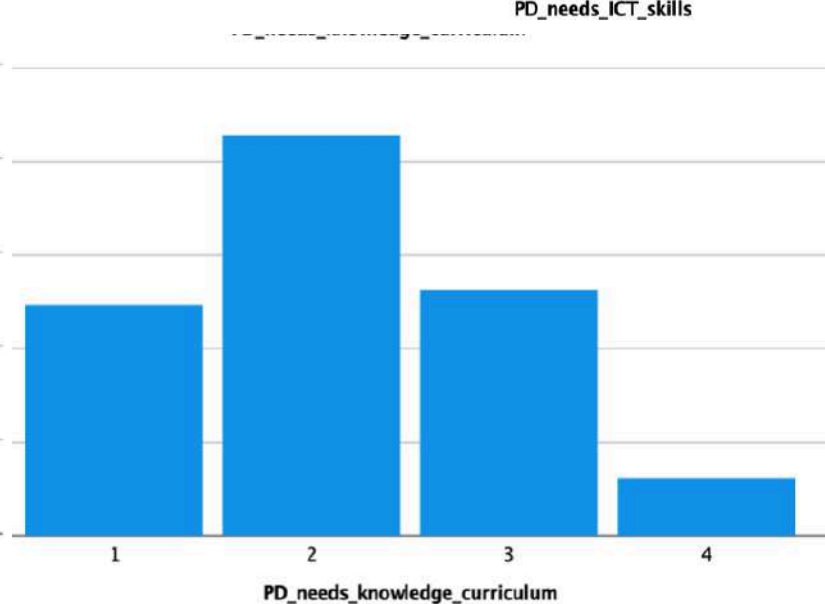
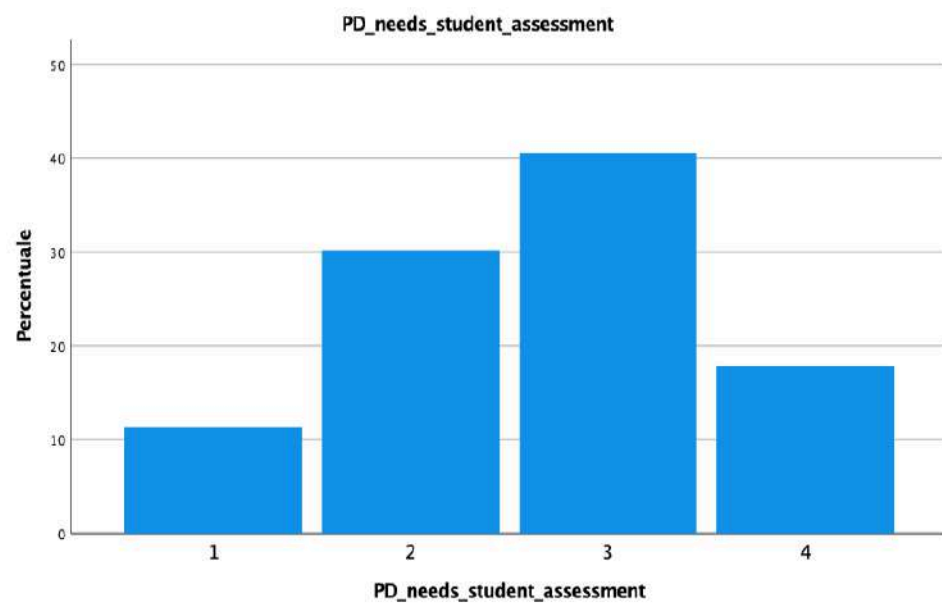
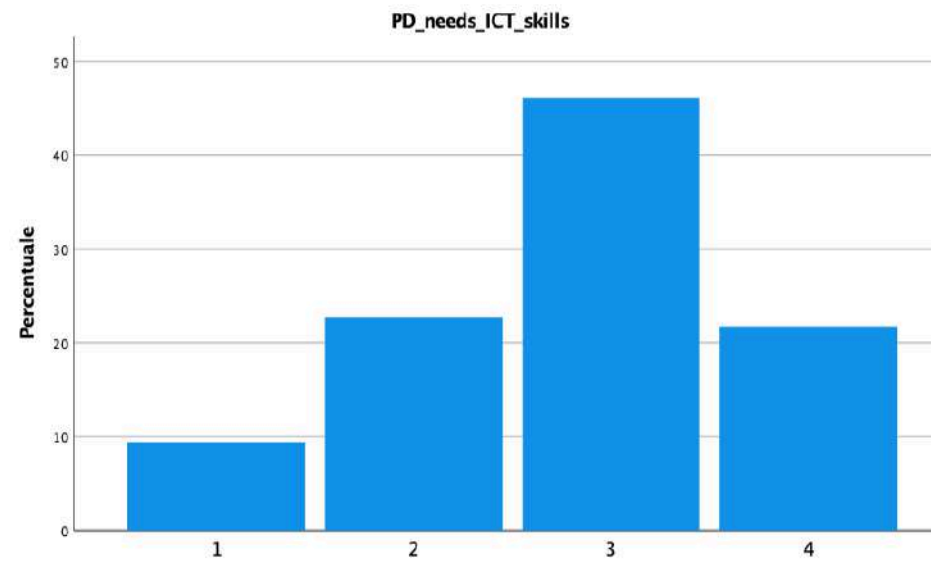
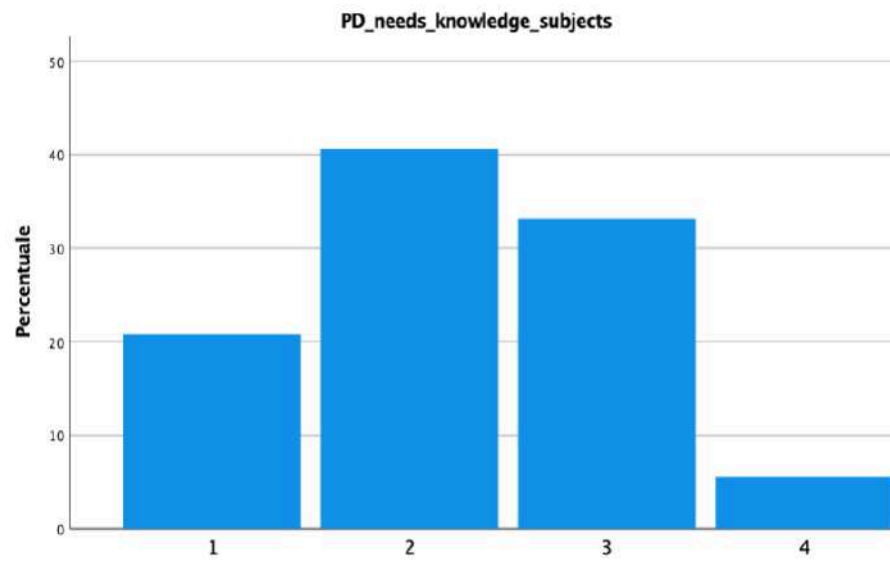
**Item 20. 10 Teaching in a multicultural or multilingual setting**

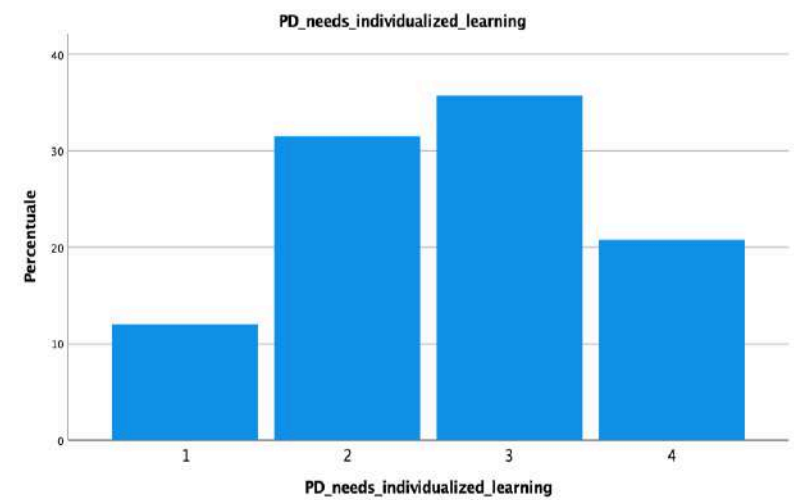
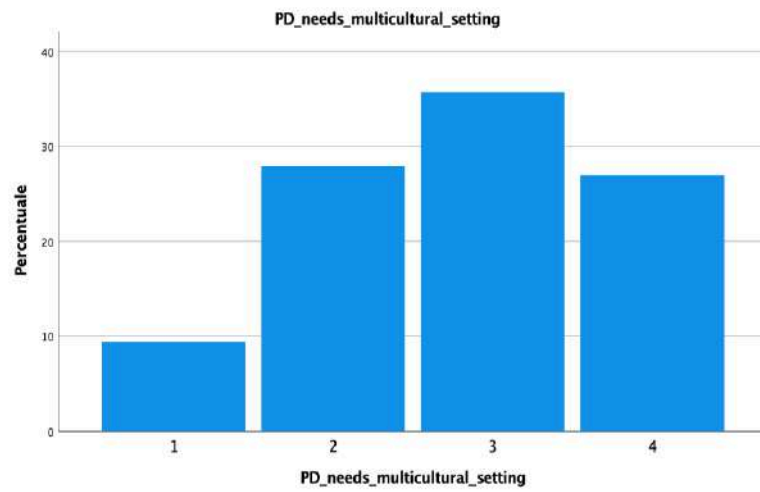
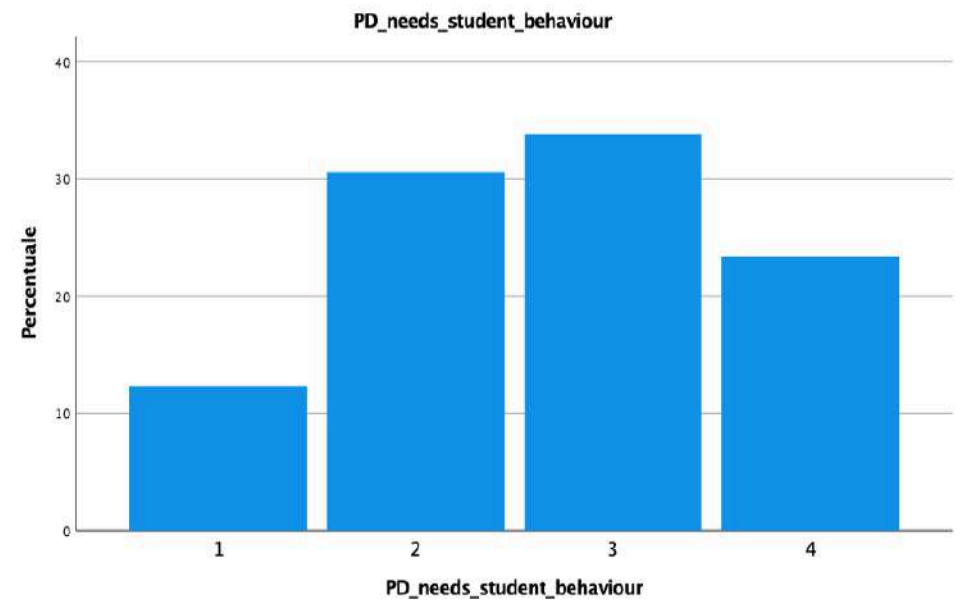
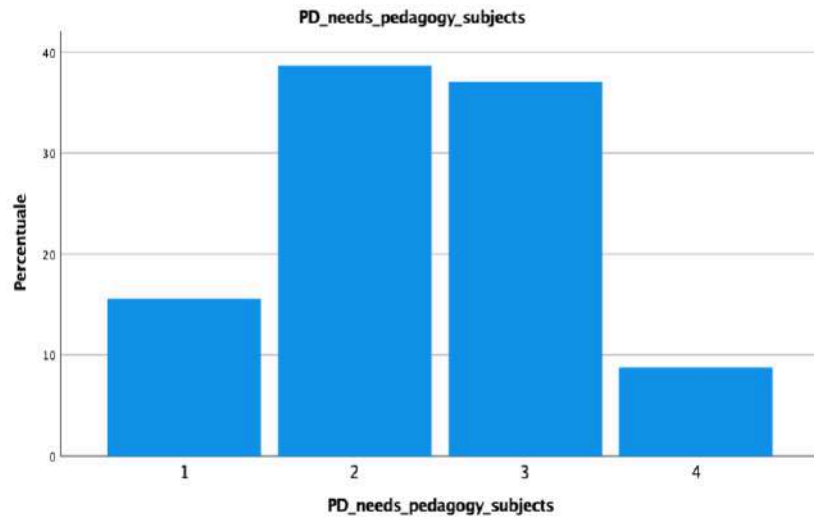
| PD_needs_multicultural_setting |                          |           |            |                  |                       |
|--------------------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                                |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                          | 1No need at present      | 29        | 9,4        | 9,4              | 9,4                   |
|                                | 2Low level of need       | 86        | 27,9       | 27,9             | 37,3                  |
|                                | 3 Moderate level of need | 110       | 35,7       | 35,7             | 73,1                  |
|                                | 4 High level of need     | 83        | 26,9       | 26,9             | 100,0                 |
|                                | Total                    | 308       | 100,0      | 100,0            |                       |

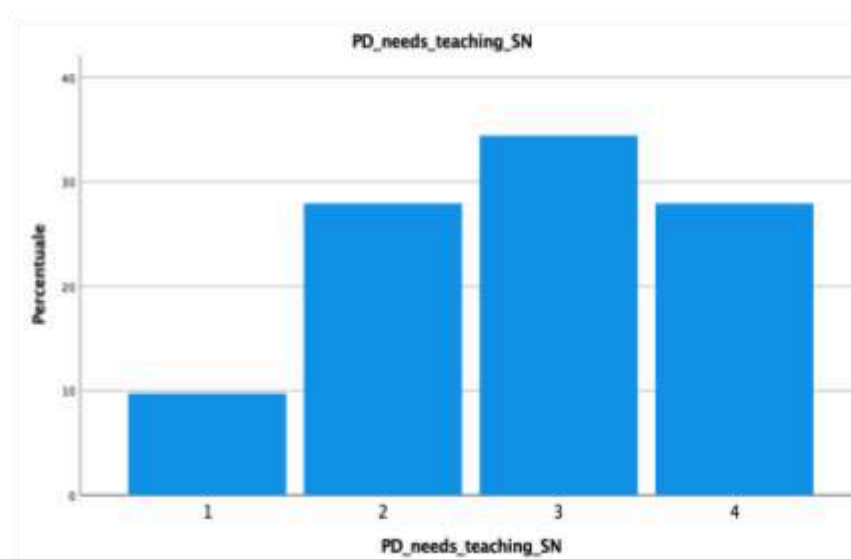
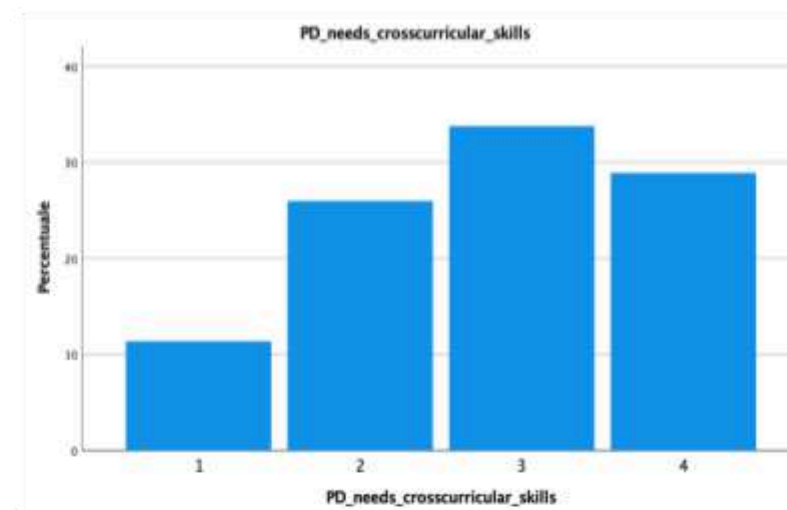
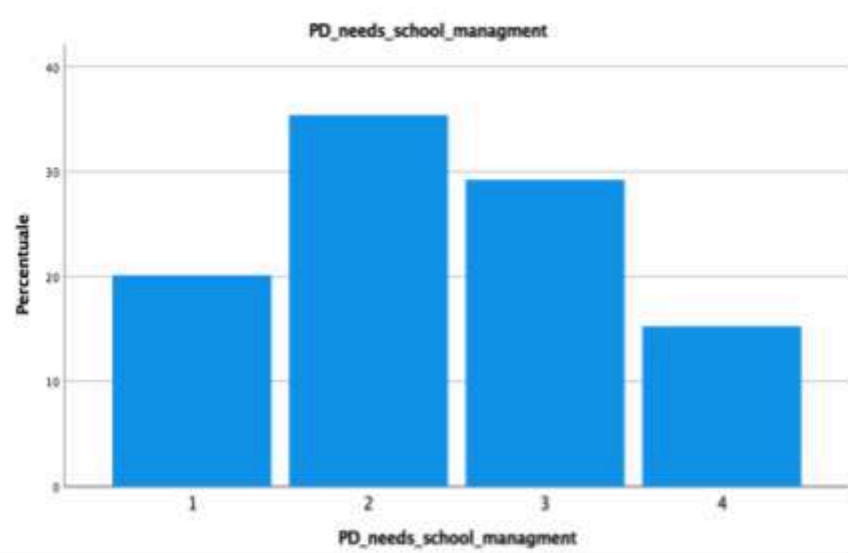
**Item 20.11 Teaching cross-curricular skills (e.g. creativity, critical thinking, problem solving)**

| PD_needs_crosscurricular_skills |                          |           |            |                  |                       |
|---------------------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                                 |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                           | 1No need at present      | 35        | 11,4       | 11,4             | 11,4                  |
|                                 | 2Low level of need       | 80        | 26,0       | 26,0             | 37,3                  |
|                                 | 3 Moderate level of need | 104       | 33,8       | 33,8             | 71,1                  |
|                                 | 4 High level of need     | 89        | 28,9       | 28,9             | 100,0                 |
|                                 | Total                    | 308       | 100,0      | 100,0            |                       |









|                         |          |     |       |
|-------------------------|----------|-----|-------|
| Case processing summary |          |     |       |
|                         |          | N   | %     |
| Cases                   | Valid    | 308 | 100,0 |
|                         | Esclusoa | 0   | 0,0   |
|                         | Total    | 308 | 100,0 |

|                        |                                              |             |
|------------------------|----------------------------------------------|-------------|
| Reliability statistics |                                              |             |
| Alpha di Cronbach      | Cronbach Alfa based on standardized elements | Elements Nr |
| 0,882                  | 0,882                                        | 11          |

| Correlation matrix between elements       |                                         |                                    |                                           |                                         |                         |                                    |                                       |                                              |                              |                                            |                                             |
|-------------------------------------------|-----------------------------------------|------------------------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------------|---------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------|---------------------------------------------|
|                                           | PD_needs<br>_knowled<br>ge_subjec<br>ts | PD_needs<br>_pedagog<br>y_subjects | PD_needs<br>_knowled<br>ge_curricu<br>lum | PD_needs<br>_student_<br>assessme<br>nt | PD_needs<br>_ICT_skills | PD_needs<br>_student_<br>behaviour | PD_needs<br>_school_<br>managme<br>nt | PD_needs<br>_individua<br>lized_lear<br>ning | PD_needs<br>_teaching<br>_SN | PD_needs<br>_multicult<br>ural_setti<br>ng | PD_needs<br>_crosscurr<br>icular_skill<br>s |
| PD_needs<br>_knowled<br>ge_subjec<br>ts   | 1,000                                   | 0,663                              | 0,527                                     | 0,469                                   | 0,360                   | 0,420                              | 0,228                                 | 0,436                                        | 0,401                        | 0,243                                      | 0,430                                       |
| PD_needs<br>_pedagog<br>y_subjects        | 0,663                                   | 1,000                              | 0,454                                     | 0,572                                   | 0,353                   | 0,511                              | 0,123                                 | 0,478                                        | 0,477                        | 0,311                                      | 0,520                                       |
| PD_needs<br>_knowled<br>ge_curricu<br>lum | 0,527                                   | 0,454                              | 1,000                                     | 0,500                                   | 0,319                   | 0,332                              | 0,361                                 | 0,362                                        | 0,315                        | 0,227                                      | 0,414                                       |
| PD_needs<br>_student_<br>assessme<br>nt   | 0,469                                   | 0,572                              | 0,500                                     | 1,000                                   | 0,345                   | 0,450                              | 0,144                                 | 0,550                                        | 0,427                        | 0,351                                      | 0,564                                       |

|                                              |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PD_needs<br>ICT_skills                       | 0,360 | 0,353 | 0,319 | 0,345 | 1,000 | 0,322 | 0,219 | 0,398 | 0,358 | 0,347 | 0,426 |
| PD_needs<br>_student_<br>behaviour           | 0,420 | 0,511 | 0,332 | 0,450 | 0,322 | 1,000 | 0,259 | 0,609 | 0,564 | 0,399 | 0,588 |
| PD_needs<br>_school_<br>managme<br>nt        | 0,228 | 0,123 | 0,361 | 0,144 | 0,219 | 0,259 | 1,000 | 0,214 | 0,237 | 0,249 | 0,099 |
| PD_needs<br>_individua<br>lized_lear<br>ning | 0,436 | 0,478 | 0,362 | 0,550 | 0,398 | 0,609 | 0,214 | 1,000 | 0,678 | 0,484 | 0,679 |
| PD_needs<br>_teaching<br>_SN                 | 0,401 | 0,477 | 0,315 | 0,427 | 0,358 | 0,564 | 0,237 | 0,678 | 1,000 | 0,539 | 0,545 |
| PD_needs<br>_multicult<br>ural_setti<br>ng   | 0,243 | 0,311 | 0,227 | 0,351 | 0,347 | 0,399 | 0,249 | 0,484 | 0,539 | 1,000 | 0,463 |
| PD_needs<br>_crosscurr<br>ricular_skill<br>s | 0,430 | 0,520 | 0,414 | 0,564 | 0,426 | 0,588 | 0,099 | 0,679 | 0,545 | 0,463 | 1,000 |

|                                   |       |         |         |       |                     |          |             |
|-----------------------------------|-------|---------|---------|-------|---------------------|----------|-------------|
| Summary<br>elements<br>statistics |       |         |         |       |                     |          |             |
|                                   | Media | Minimum | Maximum | Range | Maximum/Mini<br>mum | Variance | Elements Nr |
| Items average                     | 2,578 | 2,140   | 2,805   | 0,666 | 1,311               | 0,060    | 11          |

|                               |       |       |       |       |       |       |    |
|-------------------------------|-------|-------|-------|-------|-------|-------|----|
| Correlations between elements | 0,406 | 0,099 | 0,679 | 0,580 | 6,849 | 0,019 | 11 |
|-------------------------------|-------|-------|-------|-------|-------|-------|----|

| Item-total statistics            |                                        |                                    |                                  |                                  |                                            |
|----------------------------------|----------------------------------------|------------------------------------|----------------------------------|----------------------------------|--------------------------------------------|
|                                  | Medium scale if the element is removed | Variance if the element is deleted | Item-Total correlation corrected | Correlazione multipla quadratica | Cronbach's Alpha if the element is removed |
| PD_needs_knowledge_subjects      | 26,12                                  | 39,767                             | 0,608                            | 0,521                            | 0,871                                      |
| PD_needs_pedagogy_subjects       | 25,96                                  | 39,207                             | 0,655                            | 0,576                            | 0,868                                      |
| PD_needs_knowledge_curriculum    | 26,21                                  | 40,169                             | 0,552                            | 0,433                            | 0,874                                      |
| PD_needs_student_assessment      | 25,70                                  | 38,886                             | 0,642                            | 0,493                            | 0,868                                      |
| PD_needs_ICT_skills              | 25,55                                  | 40,515                             | 0,499                            | 0,265                            | 0,877                                      |
| PD_needs_student_behaviour       | 25,67                                  | 38,097                             | 0,662                            | 0,497                            | 0,867                                      |
| PD_needs_school_management       | 25,96                                  | 42,190                             | 0,299                            | 0,239                            | 0,891                                      |
| PD_needs_individualized_learning | 25,70                                  | 37,565                             | 0,735                            | 0,637                            | 0,862                                      |
| PD_needs_teaching_SN             | 25,55                                  | 38,033                             | 0,677                            | 0,557                            | 0,866                                      |
| PD_needs_multicultural_setting   | 25,55                                  | 39,733                             | 0,530                            | 0,368                            | 0,876                                      |
| PD_needs_crosscurricular_skills  | 25,55                                  | 37,486                             | 0,704                            | 0,596                            | 0,864                                      |

|                  |          |                    |             |
|------------------|----------|--------------------|-------------|
| Scale statistics |          |                    |             |
| Media            | Variance | Standard deviation | Elements Nr |



|  |    |      |      |      |      |      |      |      |      |      |      |      |      |
|--|----|------|------|------|------|------|------|------|------|------|------|------|------|
|  | 75 | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 | 3,75 | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 |
|--|----|------|------|------|------|------|------|------|------|------|------|------|------|

## FREQUENCIES TABLES

**Item21.1** How to make classrooms collaborative and inclusive environments

| GPE_needs_environments |                          |           |            |                  |                       |
|------------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                        |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                  | 1No need at present      | 20        | 6,5        | 6,5              | 6,5                   |
|                        | 2Low level of need       | 57        | 18,5       | 18,5             | 25,0                  |
|                        | 3 Moderate level of need | 113       | 36,7       | 36,7             | 61,7                  |
|                        | 4 High level of need     | 118       | 38,3       | 38,3             | 100,0                 |
|                        | Total                    | 308       | 100,0      | 100,0            |                       |

**Item21.2** How to use diversity as a learning resource

| GPE_needs_diversity |                          |           |            |                  |                       |
|---------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                     |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid               | 1No need at present      | 22        | 7,1        | 7,1              | 7,1                   |
|                     | 2Low level of need       | 61        | 19,8       | 19,8             | 26,9                  |
|                     | 3 Moderate level of need | 121       | 39,3       | 39,3             | 66,2                  |
|                     | 4 High level of need     | 104       | 33,8       | 33,8             | 100,0                 |
|                     | Total                    | 308       | 100,0      | 100,0            |                       |

**Item21.3** How to promote learners' agency

| GPE_needs_agency |  |  |  |  |  |
|------------------|--|--|--|--|--|
|------------------|--|--|--|--|--|



|       |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
|-------|--------------------------|-----------|------------|------------------|-----------------------|
| Valid | 1No need at present      | 23        | 7,5        | 7,5              | 7,5                   |
|       | 2Low level of need       | 78        | 25,3       | 25,3             | 32,8                  |
|       | 3 Moderate level of need | 129       | 41,9       | 41,9             | 74,7                  |
|       | 4 High level of need     | 78        | 25,3       | 25,3             | 100,0                 |
|       | Total                    | 308       | 100,0      | 100,0            |                       |

**Item21. 4** How to support the development of a democratic learning environment

| GPE_needs_democratic |                          |           |            |                  |                       |
|----------------------|--------------------------|-----------|------------|------------------|-----------------------|
|                      |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                | 1No need at present      | 25        | 8,1        | 8,1              | 8,1                   |
|                      | 2Low level of need       | 72        | 23,4       | 23,4             | 31,5                  |
|                      | 3 Moderate level of need | 123       | 39,9       | 39,9             | 71,4                  |
|                      | 4 High level of need     | 88        | 28,6       | 28,6             | 100,0                 |
|                      | Total                    | 308       | 100,0      | 100,0            |                       |

**Item21.5** How to design a multimodal learning environment with multiple expressive tools

| GPE_needs_expressive_tools |                     |           |            |                  |                       |
|----------------------------|---------------------|-----------|------------|------------------|-----------------------|
|                            |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1No need at present | 16        | 5,2        | 5,2              | 5,2                   |
|                            | 2Low level of need  | 50        | 16,2       | 16,2             | 21,4                  |

|  |                          |     |       |       |       |
|--|--------------------------|-----|-------|-------|-------|
|  | 3 Moderate level of need | 131 | 42,5  | 42,5  | 64,0  |
|  | 4 High level of need     | 111 | 36,0  | 36,0  | 100,0 |
|  | Total                    | 308 | 100,0 | 100,0 |       |

**Item21.6** How to partner with different organisations to enhance students' learning experience

|                                 |                          |           |            |                  |                       |
|---------------------------------|--------------------------|-----------|------------|------------------|-----------------------|
| GPE_needs_partner_organizations |                          |           |            |                  |                       |
|                                 |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                           | 1No need at present      | 18        | 5,8        | 5,8              | 5,8                   |
|                                 | 2Low level of need       | 68        | 22,1       | 22,1             | 27,9                  |
|                                 | 3 Moderate level of need | 134       | 43,5       | 43,5             | 71,4                  |
|                                 | 4 High level of need     | 88        | 28,6       | 28,6             | 100,0                 |
|                                 | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 21.8** How to document teaching practices innovative learning experiences in order to reflect and share them with colleagues by using digital tools

|                             |                          |           |            |                  |                       |
|-----------------------------|--------------------------|-----------|------------|------------------|-----------------------|
| GPE_needs_ICT_documentation |                          |           |            |                  |                       |
|                             |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1No need at present      | 33        | 10,7       | 10,7             | 10,7                  |
|                             | 2Low level of need       | 71        | 23,1       | 23,1             | 33,8                  |
|                             | 3 Moderate level of need | 127       | 41,2       | 41,2             | 75,0                  |
|                             | 4 High level of need     | 77        | 25,0       | 25,0             | 100,0                 |
|                             | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 21.9** How to use digital platforms and tools for the collaborative design of innovative and dynamic learning experiences for students

|                             |                          |           |            |                  |                       |
|-----------------------------|--------------------------|-----------|------------|------------------|-----------------------|
| GPE_needs_digital_platforms |                          |           |            |                  |                       |
|                             |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                       | 1No need at present      | 24        | 7,8        | 7,8              | 7,8                   |
|                             | 2Low level of need       | 78        | 25,3       | 25,3             | 33,1                  |
|                             | 3 Moderate level of need | 124       | 40,3       | 40,3             | 73,4                  |
|                             | 4 High level of need     | 82        | 26,6       | 26,6             | 100,0                 |
|                             | Total                    | 308       | 100,0      | 100,0            |                       |

**Item 21.10** How to develop multimedia learning resources and materials in a collaborative way, involving teachers' team and students

|                              |                          |           |            |                  |                       |
|------------------------------|--------------------------|-----------|------------|------------------|-----------------------|
| GPE_needs_develop_multimedia |                          |           |            |                  |                       |
|                              |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                        | 1No need at present      | 25        | 8,1        | 9,9              | 9,9                   |
|                              | 2Low level of need       | 54        | 17,5       | 21,3             | 31,2                  |
|                              | 3 Moderate level of need | 96        | 31,2       | 37,9             | 69,2                  |
|                              | 4 High level of need     | 78        | 25,3       | 30,8             | 100,0                 |
|                              | Total                    | 253       | 82,1       | 100,0            |                       |
| Missing                      | Sistema                  | 55        | 17,9       |                  |                       |
| Total                        |                          | 308       | 100,0      |                  |                       |

**Item 21.11** How to use digital tools to enrich learning experiences by giving access to remote resources, contexts, teachers, equipment and intercultural learning experiences

|                            |                          |           |            |                  |                       |
|----------------------------|--------------------------|-----------|------------|------------------|-----------------------|
| GPE_needs_remote_resources |                          |           |            |                  |                       |
|                            |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                      | 1No need at present      | 23        | 7,5        | 7,5              | 7,5                   |
|                            | 2Low level of need       | 73        | 23,7       | 23,7             | 31,2                  |
|                            | 3 Moderate level of need | 130       | 42,2       | 42,2             | 73,4                  |
|                            | 4 High level of need     | 82        | 26,6       | 26,6             | 100,0                 |
|                            | Total                    | 308       | 100,0      | 100,0            |                       |

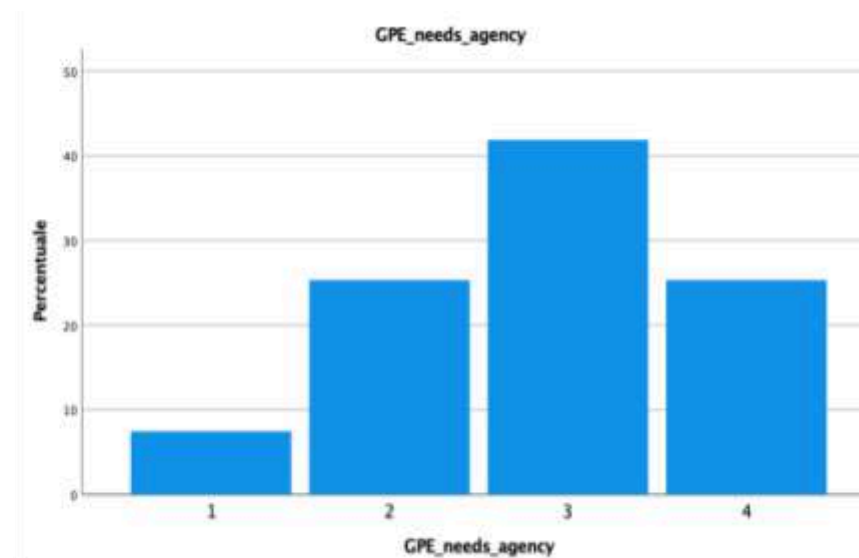
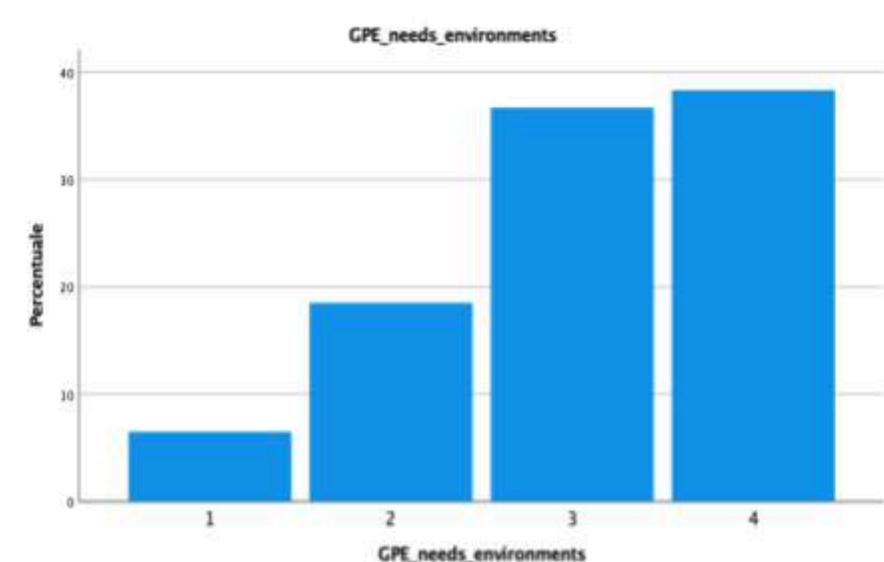
**Item 21.12** How to identify and cope with individual learning needs

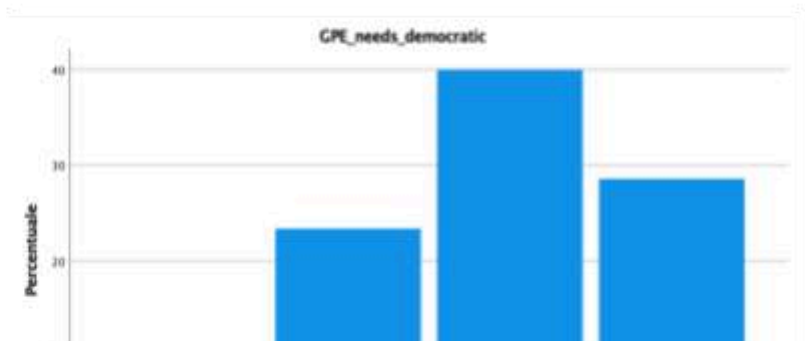
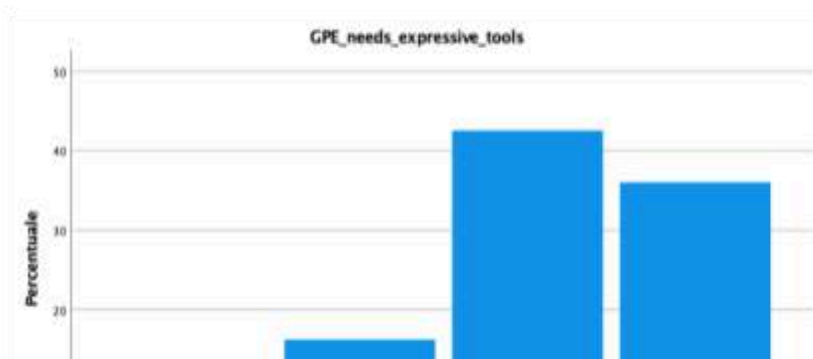
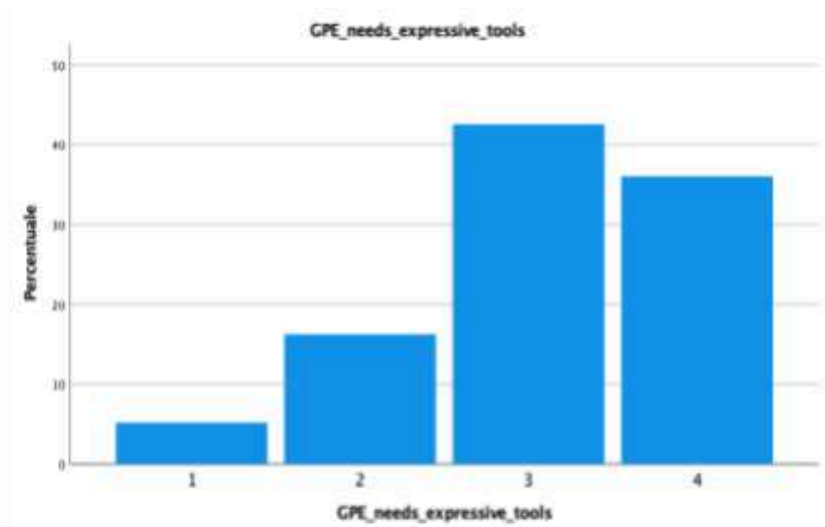
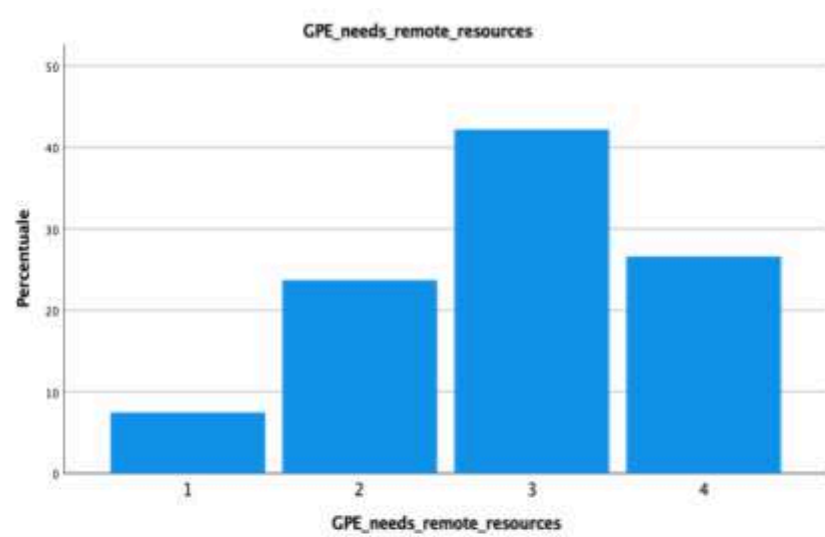
|                      |                          |           |            |                  |                       |
|----------------------|--------------------------|-----------|------------|------------------|-----------------------|
| GPE_needs_individual |                          |           |            |                  |                       |
|                      |                          | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                | 1No need at present      | 18        | 5,8        | 5,8              | 5,8                   |
|                      | 2Low level of need       | 65        | 21,1       | 21,1             | 26,9                  |
|                      | 3 Moderate level of need | 142       | 46,1       | 46,1             | 73,1                  |
|                      | 4 High level of need     | 83        | 26,9       | 26,9             | 100,0                 |
|                      | Total                    | 308       | 100,0      | 100,0            |                       |

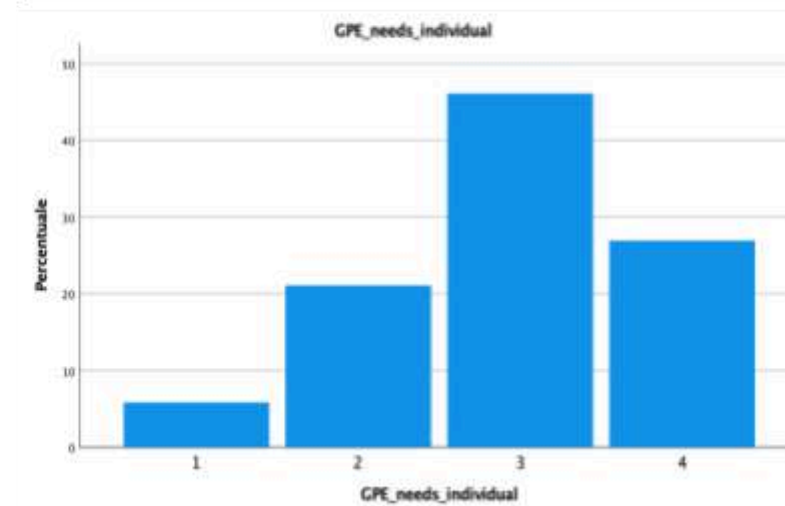
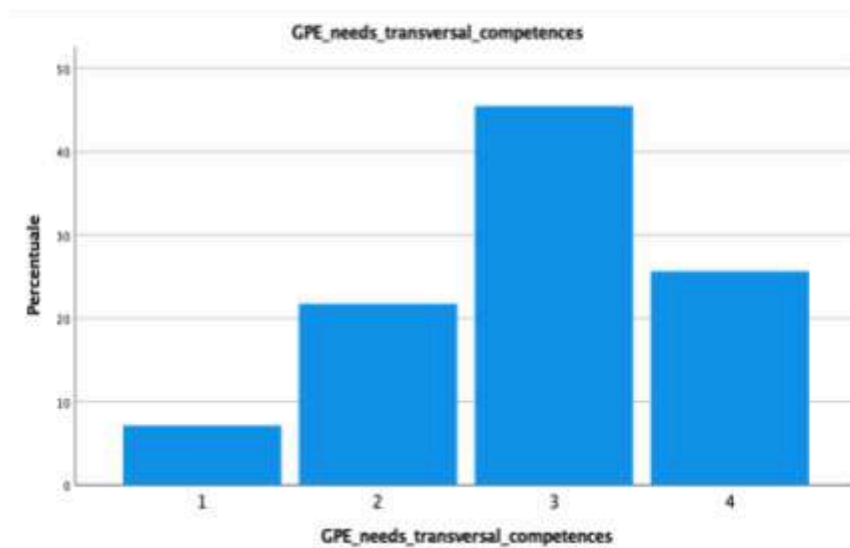
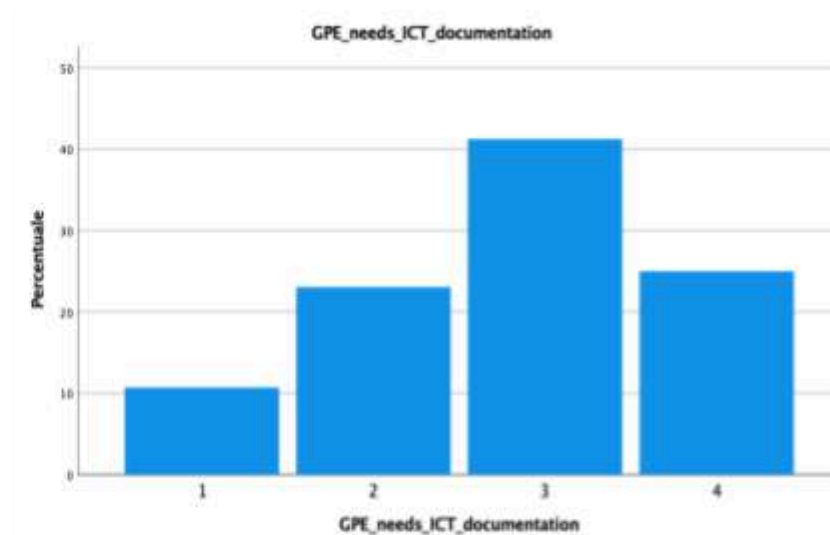
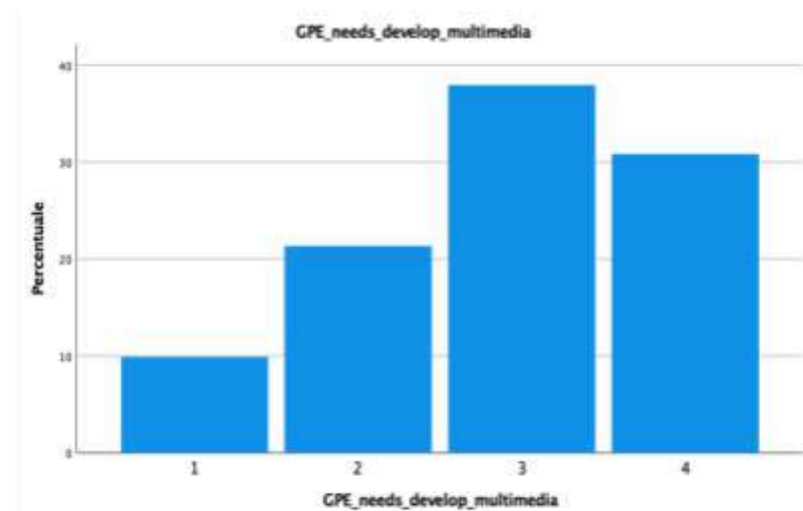
**Item 21.13**How to develop and evaluate transversal competences within the curriculum framework

|                                   |                     |           |            |                  |                       |
|-----------------------------------|---------------------|-----------|------------|------------------|-----------------------|
| GPE_needs_transversal_competences |                     |           |            |                  |                       |
|                                   |                     | Frequency | Percentage | Valid percentage | Cumulative percentage |
| Valid                             | 1No need at present | 22        | 7,1        | 7,1              | 7,1                   |

|  |                          |     |       |       |       |
|--|--------------------------|-----|-------|-------|-------|
|  | 2 Low level of need      | 67  | 21,8  | 21,8  | 28,9  |
|  | 3 Moderate level of need | 140 | 45,5  | 45,5  | 74,4  |
|  | 4 High level of need     | 79  | 25,6  | 25,6  | 100,0 |
|  | Total                    | 308 | 100,0 | 100,0 |       |







## RELIABILITY INCLUSION SE

|                                                                        |          |     |       |
|------------------------------------------------------------------------|----------|-----|-------|
| Case processing summary                                                |          |     |       |
|                                                                        |          | N   | %     |
| Cases                                                                  | Valid    | 253 | 82,1  |
|                                                                        | Esclusoa | 55  | 17,9  |
|                                                                        | Total    | 308 | 100,0 |
| a. Eliminazione listwise basata su tutte le variabili nella procedura. |          |     |       |

|                        |                                              |             |
|------------------------|----------------------------------------------|-------------|
| Reliability statistics |                                              |             |
| Alpha di Cronbach      | Cronbach Alfa based on standardized elements | Elements Nr |
| 0,918                  | 0,919                                        | 12          |

|                                 |       |                    |     |
|---------------------------------|-------|--------------------|-----|
| Items statistics                |       |                    |     |
|                                 | Media | Standard deviation | N   |
| GPE_needs_environments          | 3,10  | 0,931              | 253 |
| GPE_needs_diversity             | 3,01  | 0,921              | 253 |
| GPE_needs_agency                | 2,89  | 0,891              | 253 |
| GPE_needs_democratic            | 2,89  | 0,921              | 253 |
| GPE_needs_expressive_tools      | 3,11  | 0,852              | 253 |
| GPE_needs_partner_organizations | 2,94  | 0,871              | 253 |
| GPE_needs_ICT_documentation     | 2,77  | 0,952              | 253 |



|                                   |      |       |     |
|-----------------------------------|------|-------|-----|
| GPE_needs_digital_platforms       | 2,90 | 0,918 | 253 |
| GPE_needs_develop_multimedia      | 2,90 | 0,954 | 253 |
| GPE_needs_remote_resources        | 2,92 | 0,901 | 253 |
| GPE_needs_individual              | 2,94 | 0,859 | 253 |
| GPE_needs_transversal Competences | 2,88 | 0,883 | 253 |

| Correlation matrix between elements |                       |                     |               |                      |                            |                                 |                             |                             |                              |                            |                      |                                   |
|-------------------------------------|-----------------------|---------------------|---------------|----------------------|----------------------------|---------------------------------|-----------------------------|-----------------------------|------------------------------|----------------------------|----------------------|-----------------------------------|
|                                     | GPE_needs_environment | GPE_needs_diversity | GPE_needs_age | GPE_needs_democratic | GPE_needs_expressive_tools | GPE_needs_partner_organizations | GPE_needs_ict_documentation | GPE_needs_digital_platforms | GPE_needs_develop_multimedia | GPE_needs_remote_resources | GPE_needs_individual | GPE_needs_transversal Competences |
| GPE_needs_environment               | 1,000                 | 0,591               | 0,501         | 0,573                | 0,446                      | 0,413                           | 0,312                       | 0,276                       | 0,333                        | 0,369                      | 0,444                | 0,386                             |
| GPE_needs_diversity                 | 0,591                 | 1,000               | 0,591         | 0,628                | 0,454                      | 0,445                           | 0,414                       | 0,381                       | 0,376                        | 0,388                      | 0,482                | 0,425                             |
| GPE_needs_age                       | 0,501                 | 0,591               | 1,000         | 0,599                | 0,533                      | 0,473                           | 0,411                       | 0,438                       | 0,459                        | 0,425                      | 0,334                | 0,443                             |
| GPE_needs_democratic                | 0,573                 | 0,628               | 0,599         | 1,000                | 0,568                      | 0,467                           | 0,437                       | 0,442                       | 0,452                        | 0,415                      | 0,543                | 0,525                             |

|                                                 |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GPE_ne<br>eds_exp<br>ressive_t<br>ools          | 0,446 | 0,454 | 0,533 | 0,568 | 1,000 | 0,596 | 0,481 | 0,531 | 0,497 | 0,472 | 0,372 | 0,498 |
| GPE_ne<br>eds_part<br>ner_org<br>anizatio<br>ns | 0,413 | 0,445 | 0,473 | 0,467 | 0,596 | 1,000 | 0,617 | 0,549 | 0,538 | 0,515 | 0,377 | 0,507 |
| GPE_ne<br>eds_ICT<br>_docum<br>entation         | 0,312 | 0,414 | 0,411 | 0,437 | 0,481 | 0,617 | 1,000 | 0,678 | 0,648 | 0,618 | 0,367 | 0,469 |
| GPE_ne<br>eds_digi<br>tal_platf<br>orms         | 0,276 | 0,381 | 0,438 | 0,442 | 0,531 | 0,549 | 0,678 | 1,000 | 0,799 | 0,734 | 0,370 | 0,475 |
| GPE_ne<br>eds_dev<br>elop_mu<br>ltimedia        | 0,333 | 0,376 | 0,459 | 0,452 | 0,497 | 0,538 | 0,648 | 0,799 | 1,000 | 0,762 | 0,360 | 0,471 |
| GPE_ne<br>eds_rem<br>ote_reso<br>urces          | 0,369 | 0,388 | 0,425 | 0,415 | 0,472 | 0,515 | 0,618 | 0,734 | 0,762 | 1,000 | 0,445 | 0,482 |
| GPE_ne<br>eds_indi<br>vidual                    | 0,444 | 0,482 | 0,334 | 0,543 | 0,372 | 0,377 | 0,367 | 0,370 | 0,360 | 0,445 | 1,000 | 0,550 |
| GPE_ne<br>eds_tran                              | 0,386 | 0,425 | 0,443 | 0,525 | 0,498 | 0,507 | 0,469 | 0,475 | 0,471 | 0,482 | 0,550 | 1,000 |

|                             |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| sversal_<br>competen<br>ces |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|

| Summary elements statistics         |       |         |         |       |                     |          |             |
|-------------------------------------|-------|---------|---------|-------|---------------------|----------|-------------|
|                                     | Media | Minimum | Maximum | Range | Maximum/Mini<br>mum | Variance | Elements Nr |
| Items average                       | 2,938 | 2,775   | 3,111   | 0,336 | 1,121               | 0,009    | 12          |
| Correlations<br>between<br>elements | 0,484 | 0,276   | 0,799   | 0,523 | 2,896               | 0,011    | 12          |

| Item-total statistics               |                                           |                                       |                                     |                                     |                                                  |
|-------------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------------------|
|                                     | Medium scale if the<br>element is removed | Variance if the<br>element is deleted | Item-Total correlation<br>corrected | Correlazione multipla<br>quadratica | Cronbach's Alpha if<br>the element is<br>removed |
| GPE_needs_environ<br>ments          | 32,16                                     | 53,546                                | 0,571                               | 0,466                               | 0,916                                            |
| GPE_needs_diversity                 | 32,25                                     | 52,743                                | 0,643                               | 0,540                               | 0,913                                            |
| GPE_needs_agency                    | 32,36                                     | 52,994                                | 0,648                               | 0,506                               | 0,912                                            |
| GPE_needs_democra<br>tic            | 32,37                                     | 51,973                                | 0,706                               | 0,599                               | 0,910                                            |
| GPE_needs_expressiv<br>e_tools      | 32,15                                     | 53,030                                | 0,681                               | 0,515                               | 0,911                                            |
| GPE_needs_partner_<br>organizations | 32,31                                     | 52,739                                | 0,688                               | 0,533                               | 0,911                                            |

|                                   |       |        |       |       |       |
|-----------------------------------|-------|--------|-------|-------|-------|
| GPE_needs_ICT_documentation       | 32,48 | 51,941 | 0,682 | 0,574 | 0,911 |
| GPE_needs_digital_platforms       | 32,36 | 51,913 | 0,714 | 0,720 | 0,910 |
| GPE_needs_develop_multimedia      | 32,36 | 51,493 | 0,716 | 0,721 | 0,909 |
| GPE_needs_remote_resources        | 32,34 | 52,184 | 0,707 | 0,662 | 0,910 |
| GPE_needs_individual              | 32,32 | 54,209 | 0,573 | 0,453 | 0,915 |
| GPE_needs_transversal_competences | 32,38 | 53,061 | 0,650 | 0,470 | 0,912 |

| Scale statistics |          |                    |             |
|------------------|----------|--------------------|-------------|
| Media            | Variance | Standard deviation | Elements Nr |
| 35,26            | 62,200   | 7,887              | 12          |