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**MODERNIZATION OF HIGHER EDUCATION IN
CENTRAL ASIA THROUGH NEW TECHNOLOGIES
(HIEDTEC)**



EVALUATION OF THE DEVELOPED HANDBOOK OF INNOVATIVE EDUCATIONAL TECHNOLOGIES

**Project: Modernization of higher education in Central Asia through new
technologies (HiEdTec)**

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Project coordinator: Ruse University named after Angel Kanchev



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CONTENTS

| | |
|---|----|
| CONTENT | 3 |
| EXECUTIVE SUMMARY | 4 |
| INTRODUCTION | 5 |
| PROJECT OVERVIEW | 6 |
| SURVEY RESULTS HIEDTEC | 7 |
| 1. Which country are you from? | 7 |
| 2. Overall, please tell us how well structured the handbook is | 7 |
| 3. Please tell us how you rate the quality using a 1 to 5 scale | 8 |
| 4. Now we have a few questions about the layout and content. Please tell us your level of agreement with the following statements about the handbook..... | 8 |
| 5. We would also like your feedback on the outcome of the handbook. Please tell us your level of agreement with the following statements | 10 |
| 6. If the handbook was not appropriate in length, what would you have added or deleted? | 11 |
| 7. If you disagree with any of the point above in No.5, please comment here mentioning the reasons | 11 |
| 8. Were the handbooks sent on time? | 12 |
| 9. Did you get the chance for comments and criticism? | 12 |
| 10. Was the final documents produced and sent in an appropriate time? | 12 |
| 11. If the answer to question 9 was no, what comments would you have on the document? | 13 |
| 12. Which version of the handbook did you prefer? | 13 |
| 13. Why did you prefer one or the other version (question 12)? | 13 |
| 14. Any other comments or suggestions: | 13 |
| CONCLUSION | 15 |



EXECUTIVE SUMMARY

Evaluation of the developed handbook of innovative educational technologies, which were conducted in three universities of Kazakhstan-project partners, based on the data of a survey of students.

Evaluation of the developed handbook of innovative educational technologies is based on the opinions of participants who have completed an online course on acquiring digital skills and innovative teaching and learning methods. The purpose of this evaluation is to determine the degree of usefulness of the developed handbook of innovative educational technologies for teachers of higher educational institutions in Kazakhstan. This evaluation report will be attached to the progress reports.

The handbook of innovative educational technologies was developed in accordance with the project "modernization of the higher education system in central Asia through new technologies" (HiEdTec), WP5.5. Evaluation of the developed handbook of innovative educational technologies in Kazakhstan.



INTRODUCTION

The purpose of this study was to determine the quality of the content of the developed handbook of innovative educational technologies, the degree of assimilation of the presented materials and the satisfaction of students. The evaluation methodology consisted of collecting feedback on the developed handbook of innovative educational technologies from participants of online courses on digital skills acquisition and innovative teaching and learning methods, their analysis and conclusions about the results with a view to making possible amendments in the future.



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PROJECT OVERVIEW

The paper versions of the educational technology innovation handbooks were delivered on time. The electronic version is posted on the web site in the virtual library of the project.

The main goal of the project is to adapt the education system in partner countries to the digital generation by introducing and effectively using innovative educational technologies and didactic models (IET & DM) based on ICT in the educational process.

The consortium consists of 24 full partners - universities from 4 EU countries and 5 partner countries. The project will help transform higher education institutions into innovative universities and improve the quality of trained professionals required for the digital transformation of industries (Industry 4.0).



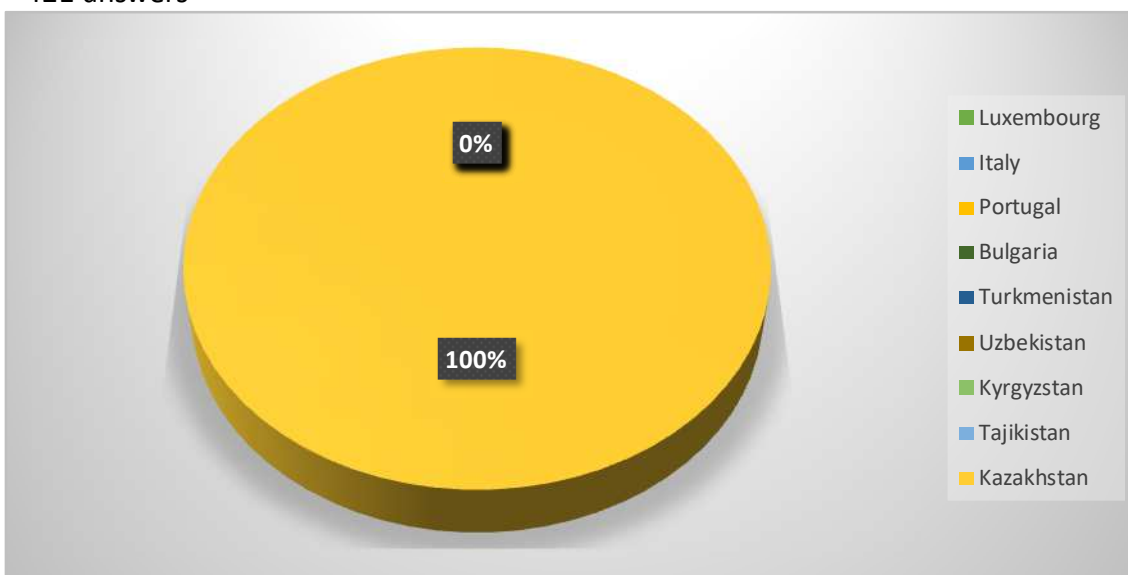
SURVEY RESULTS HIEDTEC

GENERAL INFORMATION

The total number of respondents is 421.

1. Which country are you from?

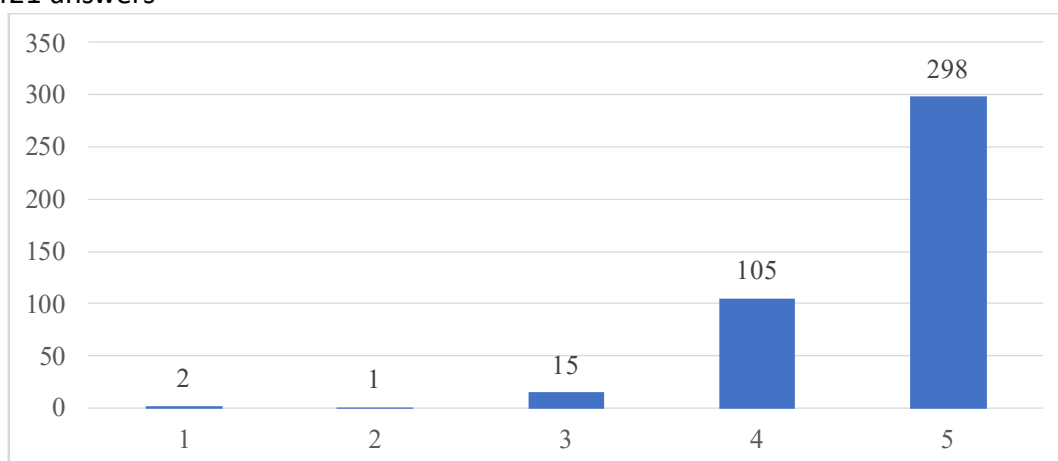
421 answers



All 421 respondents represented Kazakhstan.

2. Overall, please tell us how well structured the handbook is. 1 means not at all well structured and 5 means extremely well structured.

421 answers

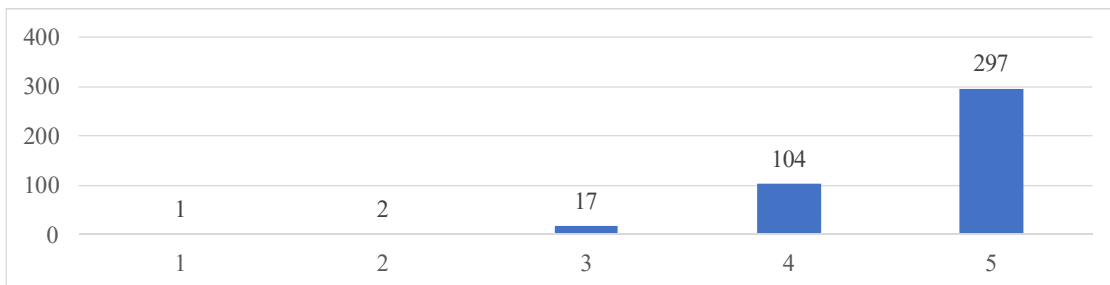


According to the survey, 298 (70.8%) respondents rated the management structure 5 points, 105 (24.9%) respondents 4 points, 15 (3.6%) respondents 3 points, 1 (0.2%) respondent 2 points, and 2 (0.5%) respondents 1 point.



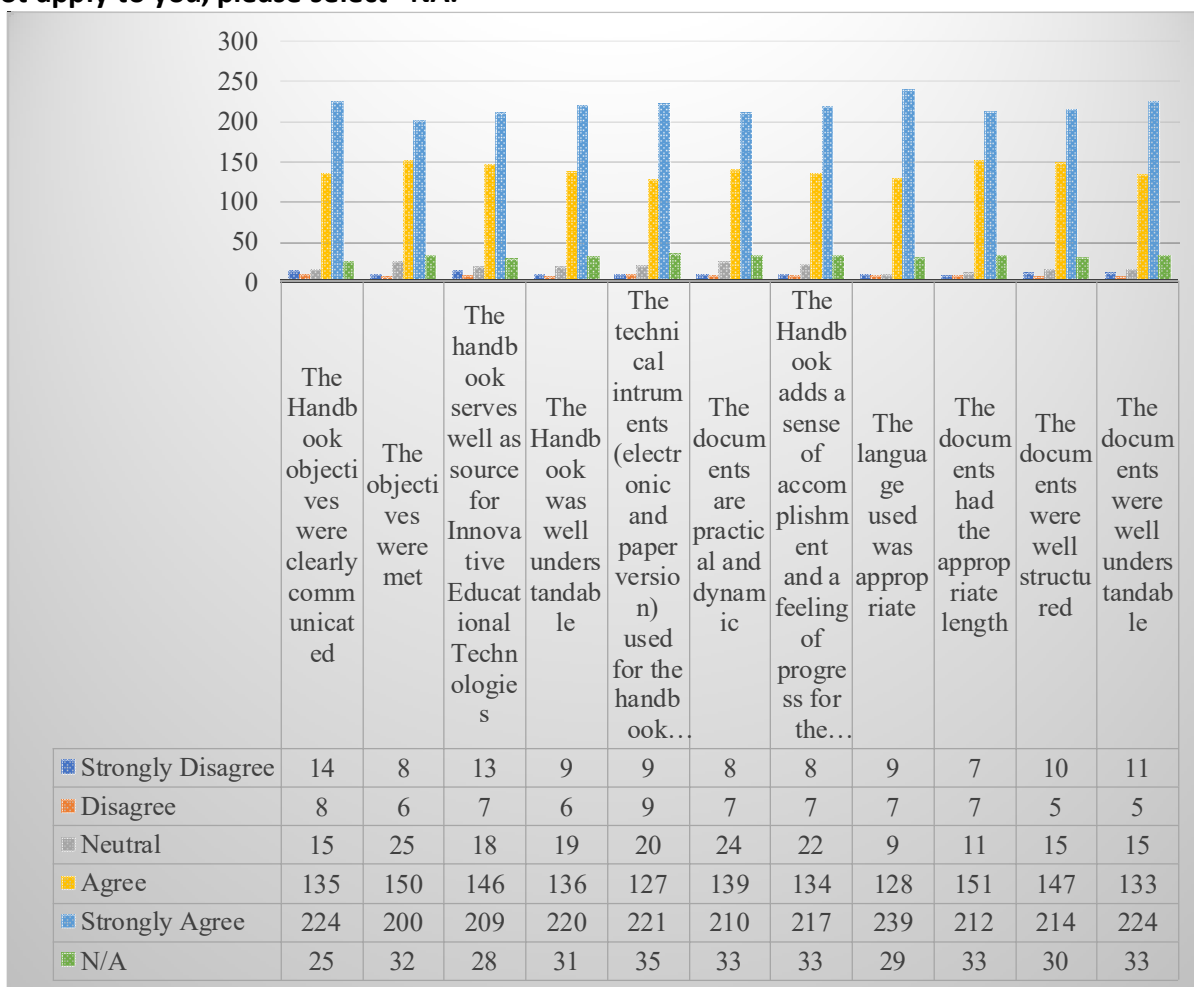
3. Please tell us how you rate the quality using a 1 to 5 scale where 1 means very bad and 5 means extremely good.

421 answers



According to the survey, 297 (70.5%) respondents rated the management structure by 5 points, 104 (24.7%) respondents by 4 points, 17 (4%) respondents by 3 points, 2 (0.5%) respondents by 2 points and 1 (0.2%) respondent by 1 point.

4. Now we have a few questions about the layout and content. Please tell us your level of agreement with the following statements about the handbook, using a 1 to 5 scale, where 1 means you strongly disagree and 5 means you strongly agree. If a statement does not apply to you, please select "NA."





This section contains 11 statements and a scale by which you can determine the degree of agreement with these statements. 421 respondents responded as follows:

4.1. The Handbook objectives were clearly communicated

224 (53.2%) respondents absolutely agree with this statement, 135 (32%) agree, 15 (3.6%) respondents were neutral, 8 (1.9%) respondents disagree, 14 (3.3%) respondents strongly disagree and 25 (5.9%) respondents chose “no answer”

4.2. The objectives were met

200 (47.5%) respondents absolutely agree with this statement, 150 (35.6%) agree, 25 (5.9%) respondents were neutral, 6 (1.4%) respondents disagree, 8 (1.9%) respondents strongly disagree and 32 (7.6%) respondents chose “no answer”.

4.3. The handbook serves well as source for Innovative Educational Technologies

209 (49.6%) respondents absolutely agree with this statement, 146 (34.7%) agree, 18 (4.3%) respondents were neutral, 7 (1.7%) respondents disagree, 13 (3.1%) respondents strongly disagree and 28 (6.7%) respondents chose “no answer”.

4.4. The Handbook was well understandable

220 (52.3%) respondents absolutely agree with this statement, 136 (32.3%) agree, 19 (4.5%) respondents were neutral, 6 (1.4%) respondents disagree, 9 (2.1%) respondents strongly disagree and 28 (7.4%) respondents chose “no answer”.

4.5. The technical instruments (electronic and paper version) used for the handbook was easy to access

221 (52.5%) respondents absolutely agree with this statement, 127 (30.2%) agree, 20 (4.8%) respondents were neutral, 9 (2.1%) respondents disagree, 9 (2.1%) respondents strongly disagree and 35 (8.3%) respondents chose “no answer”.

4.6. The documents are practical and dynamic

210 (49.9%) respondents absolutely agree with this statement, 139 (33%) agree, 24 (5.7%) respondents were neutral, 7 (1.7%) respondents disagree, 8 (1.9%) respondents strongly disagree and 33 (7.8%) respondents chose “no answer”.

4.7. The Handbook adds a sense of accomplishment and a feeling of progress for the project

217 (51.5%) respondents absolutely agree with this statement, 134 (31.8%) agree, 22 (5.2%) respondents were neutral, 7 (1.7%) respondents disagree, 8 (1.9%) respondents strongly disagree and 33 (7.8%) respondents chose “no answer”.

4.8. The language used was appropriate

239 (56.8%) respondents absolutely agree with this statement, 128 (30.4%) agree, 9 (2.1%) respondents were neutral, 7 (1.7%) respondents disagree, 9 (2.1%) respondents strongly disagree and 29 (6.9%) respondents chose “no answer”.

4.9. The documents had the appropriate length

212 (50.4%) respondents absolutely agree with this statement, 151 (35.9%) agree, 11 (2.6%) respondents were neutral, 7 (1.7%) respondents disagree, 7 (1.7%) respondents strongly disagree and 33 (7.8%) respondents chose “no answer”.

4.10. The documents were well structured

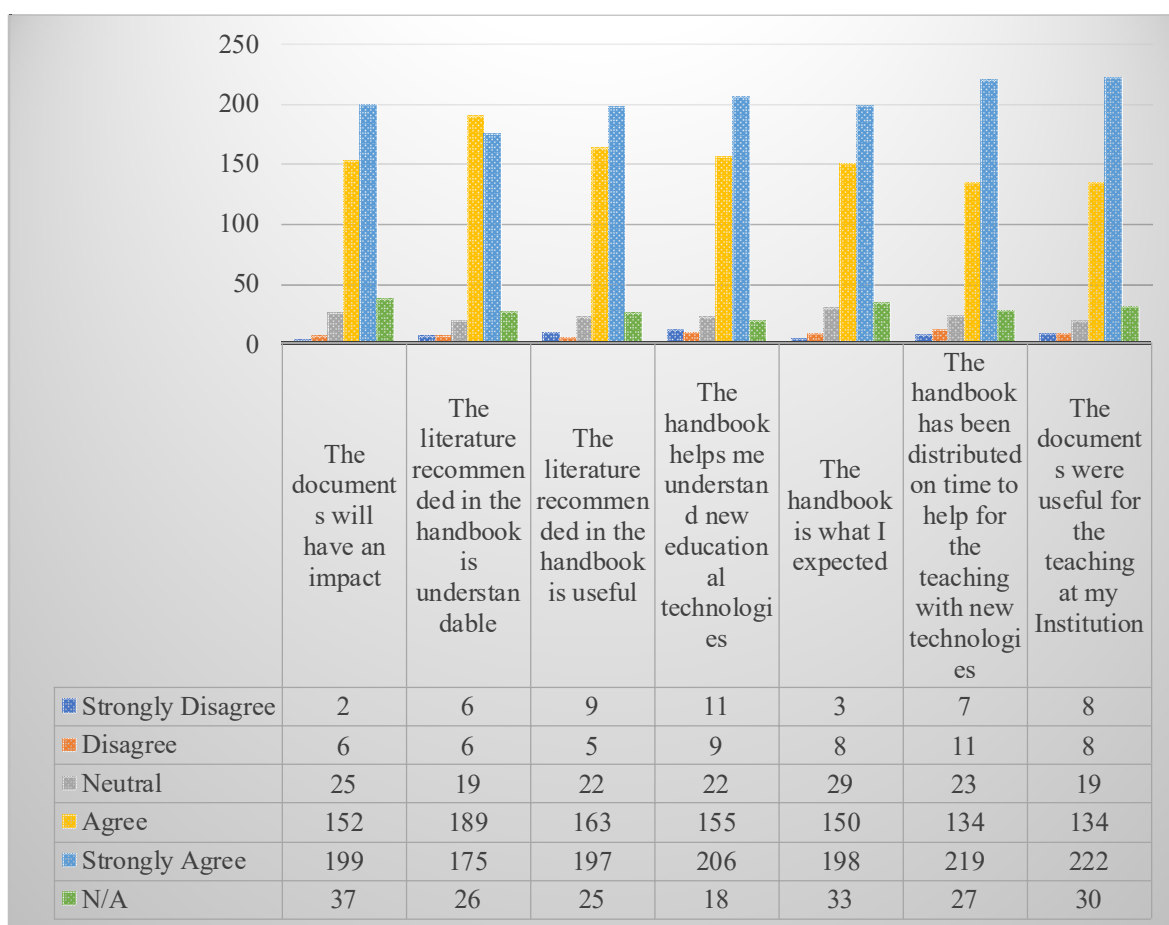
214 (50.8%) respondents absolutely agree with this statement, 147 (34.9%) agree, 15 (3.6%) respondents were neutral, 5 (1.2%) respondents disagree, 10 (2.4%) respondents strongly disagree and 30 (7.1%) respondents chose “no answer”.



4.11. The documents were well understandable

224 (53.2%) respondents absolutely agree with this statement, 133 (31.6%) agree, 15 (3.6%) respondents were neutral, 5 (1.2%) respondents disagree, 11 (2.6%) respondents strongly disagree and 33 (7.8%) respondents chose “no answer”.

5. We would also like your feedback on the outcome of the handbook. Please tell us your level of agreement with the following statements using a 1 to 5 scale, where 1 means you strongly disagree and 5 means you strongly agree.



This section contains 7 statements and a scale by which you can determine the degree of agreement with these statements. 421 respondents responded as follows:

5.1. The documents will have an impact

199 (47.3%) respondents absolutely agree with this statement, 152 (36.1%) agree, 25 (5.9%) respondents were neutral, 6 (1.4%) respondents disagree, 2 (0.5%) respondents strongly disagree and 37 (8.8%) respondents chose “no answer”.

5.2. The literature recommended in the handbook is understandable



175 (41.63%) respondents absolutely agree with this statement, 189 (44.9%) agree, 19 (4.5%) respondents were neutral, 6 (1.4%) respondents disagree, 6 (1.4%) respondents strongly disagree and 26 (6.2%) respondents chose “no answer”.

5.3. The literature recommended in the handbook is useful

197 (46.8%) respondents absolutely agree with this statement, 163 (38.8 %) agree, 22 (5.2%) respondents were neutral, 5 (1.2%) respondents disagree, 9 (2.1%) respondents strongly disagree and 25 (5.9%) respondents chose “no answer”.

5.4. The handbook helps me understand new educational technologies

206 (48.9%) respondents absolutely agree with this statement, 155 (36.8%) agree, 22 (5.2%) respondents were neutral, 9 (2.1%) respondents disagree, 11 (2.6%) respondents strongly disagree and 18 (4.3%) respondents chose “no answer”.

5.5. The handbook is what I expected

198 (47%) respondents absolutely agree with this statement, 150 (35.6%) agree, 29 (6.9%) respondents were neutral, 8 (1.9%) respondents disagree, 3 (0.7%) respondents strongly disagree and 33 (7.8%) respondents chose “no answer”.

5.6. The handbook has been distributed on time to help for the teaching with new technologies

219 (52%) respondents absolutely agree with this statement, 134 (31.8%) agree, 23 (5.5%) respondents were neutral, 11 (2.6%) respondents disagree, 7 (1.7%) respondents strongly disagree and 27 (6.4%) respondents chose “no answer”.

5.7. The documents were useful for the teaching at my Institution

222 (52.7%) respondents absolutely agree with this statement, 134 (31.8%) agree, 19 (4.5%) respondents were neutral, 8 (1.9%) respondents disagree, 8 (1.9%) respondents strongly disagree and 30 (7.1%) respondents chose “no answer”.

6. If the handbook was not appropriate in length, what would you have added or deleted?

In the responses, we can see that the majority of respondents are satisfied with the volume of the handbook:

- Everything is fine, nothing superfluous.
- The scope of the handbook was appropriate.
- Everything was great.
- Everything was clear, accessible.
- Everything is very well written and accessible.
- I don't want to change anything.
- The scope of the handbook was appropriate, nothing needs to be changed or deleted.

7. If you disagree with any of the point above in No.5, please comment here mentioning the reasons.

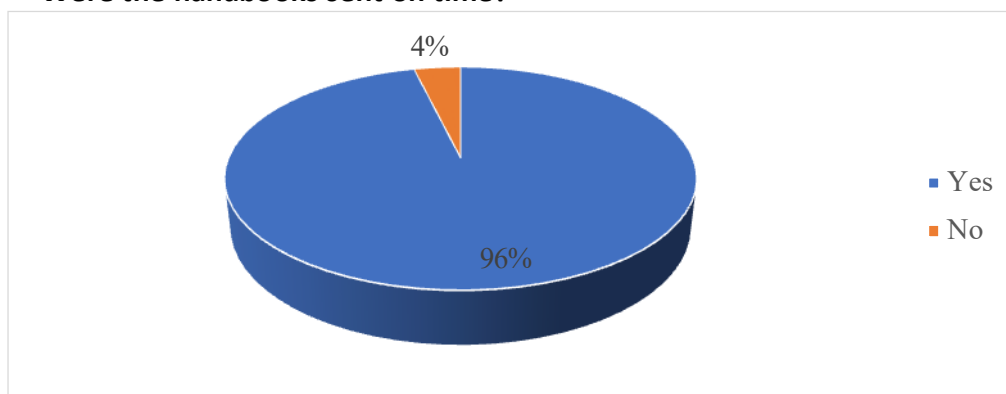
The respondents' answers show that in most cases they agree with points №5 and the following answers prevail:

- I absolutely agree with everything.



- Everything is great.
- No complaints.
- There is not a single point with which I do not agree.
- The handbook is informative in nature, and also served as a good tool in the development of documents for the educational process.
- I agree with everything
- I agree with point №5.

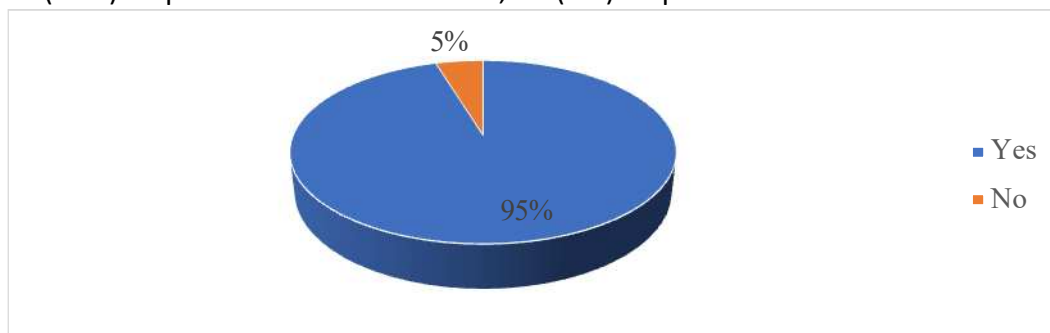
8. Were the handbooks sent on time?



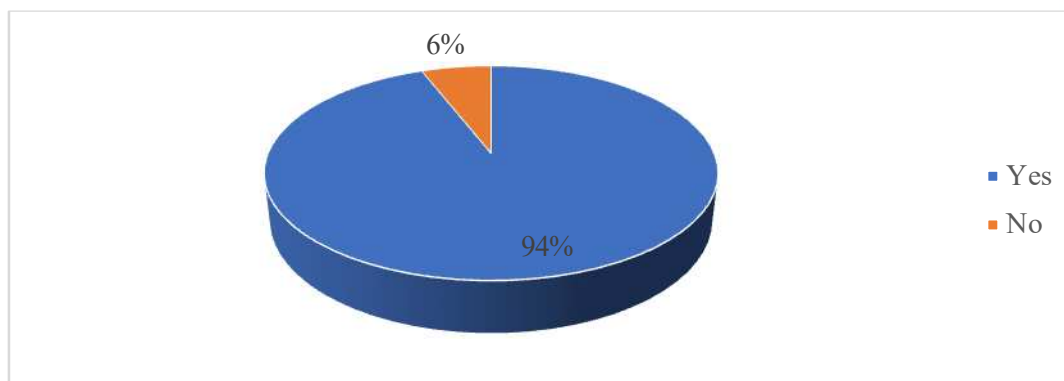
To this question, 405 (96%) respondents answered “Yes” and 16 (4%) respondents answered “No”.

9. Did you get the chance for comments and criticism?

401 (95%) respondents answered “Yes”, 20 (5%) respondents answered “No”



10. Was the final documents produced and sent in an appropriate time?



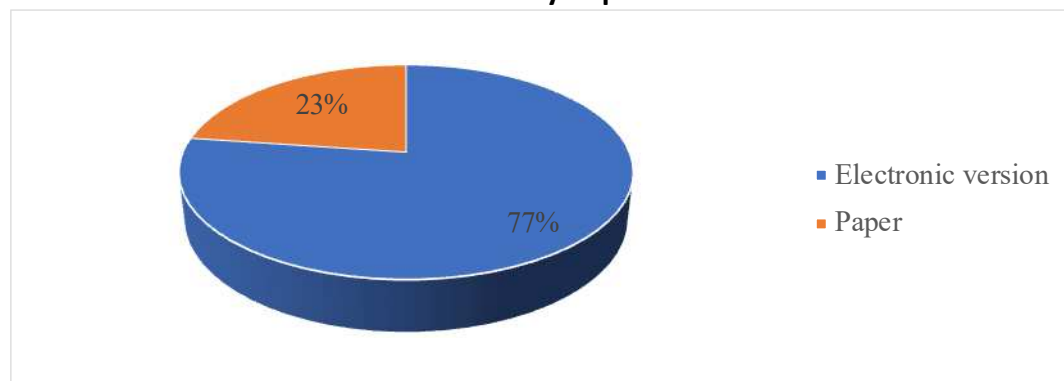
To this question, 396 (94%) respondents answered “Yes” and 25 (6%) respondents answered “No”.

11. If the answer to question 9 was no, what comments would you have on the document?

The following comments prevailed on this question, which shows a positive answer to question 9:

- The answer was positive.
- My answer is positive.
- No comments.
- Responded positively.
- I left a positive response.

12. Which version of the handbook did you prefer?



325 (77%) respondents preferred the electronic version of the handbook, 96 (23%) respondents chose the paper version.

13. Why did you prefer one or the other version (question 12)?

The majority of respondents justified their choice with the following comments:

- Large content, easier to have an electronic version
- Convenience when reading.
- Flexibility.
- Electronic version, because we are working online and we can use it at any time...
- In the conditions of online training, the electronic version is preferred.



- Electronic version is more important and accessible and convenient.
- The electronic version is the most convenient for distribution.

14. Any other comments or suggestions:

Mostly positive reviews prevail without specific advice:

- Once again gain knowledge.
- Thank you for an excellent course and a high-quality, timely reference handbook!
- A very useful reference, I personally followed many of the instructions written in it, and the virtual library itself is excellent. Everyone liked the unusual presentation of the material, structured information.
- I liked the handbook.
- Positive feedback on the management account.
- Thank you for your work, the handbook was helpful and timely
- Everything is fine.
- Everything was at the highest level, if there are more such courses, please be sure to inform the young employees. Thank you in advance.
- This digital skills refresher course was timely, useful, and effective! Thanks to this course and the professional moderators, their kindness and patient and sensitive attitude to each participant, I personally learned a lot. Thank you very much for your work and knowledge! I wish you further success! And more relevant and effective courses!
- Initially it seems difficult. But when you start working, it turns out to be easy. But of course, it requires creativity and time.
- Offer to conduct a refresher course on the development of a digital learning resource (DSP).
- Thank you, it was accessible, informative and timely.
- Only good wishes.
- I liked everything.



CONCLUSION

The methodology we have chosen for assessing the developed handbook of innovative educational technologies in the form of an anonymous survey allows us to obtain objective reviews, on the basis of which it is possible to understand the effectiveness of the work done.

A sample of 421 respondents testifies to the reliability of the results obtained. Based on the analysis of the responses received, the following conclusions were drawn:

- Developed handbook on innovative educational technologies helps educators to independently cope with the challenges and questions that arise in the teaching process in the digital age.
- The developed handbook is very well structured.
- The writing quality of the handbook was very high.
- The content and scope of the handbook was appropriate.
- The handbook was comprehensible and easily accessible, convenient in electronic form of use.