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**MODERNISATION OF HIGHER EDUCATION  
IN CENTRAL ASIA  
THROUGH NEW TECHNOLOGIES  
( HiEdTec )**



# **EVALUATION OF THE DEVELOPED HANDBOOK OF INNOVATIVE EDUCATIONAL TECHNOLOGIES IN TAJIKISTAN**

**Project: Modernization of Higher Education in Central Asia through New  
Technologies (HiEdTec)**

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## TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	4
INTRODUCTION.....	4
PROJECT OVERVIEW .....	4
HiEdTec QUESTIONNAIRE RESULTS .....	5
1. Which country are you from? 162 responses .....	5
2. Overall, please tell us how well structured the handbook is. 1 means not at all well structured and 5 means extremely well structured. 162 responses .....	5
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. 162 responses .....	5
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." ....	6
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. The structure of the questions were following:.....	9
6. If the handbook was not appropriate in length, what would you have added or deleted?.....	10
7. If you disagree with any of the point above in No.5, please comment here mentioning the reasons. 9 responses .....	11
8. Were the handbooks sent on time? 162 responses .....	11
9. Did you get the chance for comments and criticism? .....	11
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? 7 responses.	12
12. Which version of the handbook did you prefer? .....	13
13. Why did you prefer one or the other version (question 12)? 27 responses .....	13
14. Any other comments or suggestions: .....	14
CONCLUSION .....	16



## **EXECUTIVE SUMMARY**

Evaluation of the developed handbook of innovative educational technologies, which were conducted in three universities of Tajikistan-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 Tajikistan. 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 Tajikistan.

## **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.

## **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).

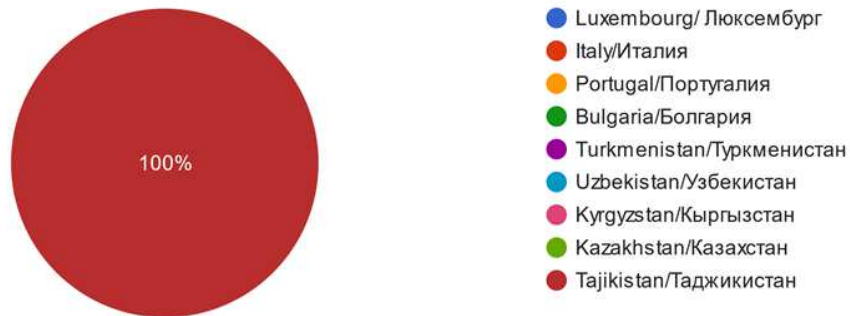


## HiEdTec QUESTIONNAIRE RESULTS

### GENERAL INFORMATION

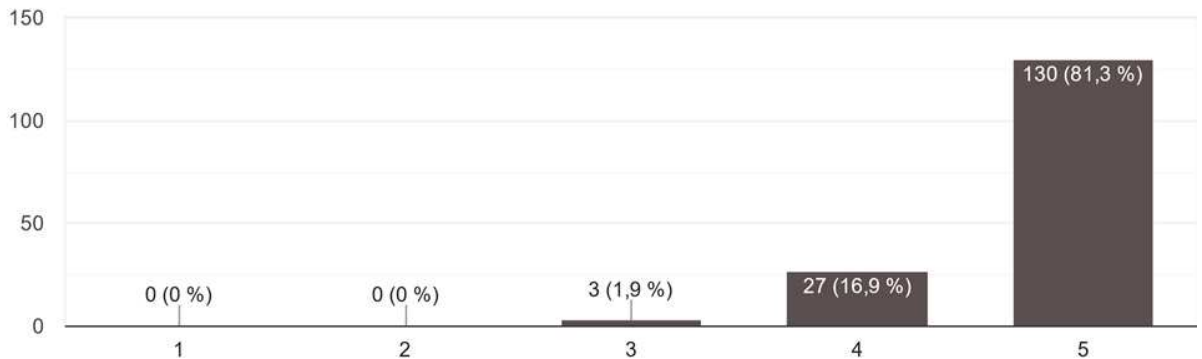
We received in total 162 answers to our questionnaire:

#### 1. Which country are you from? 162 responses



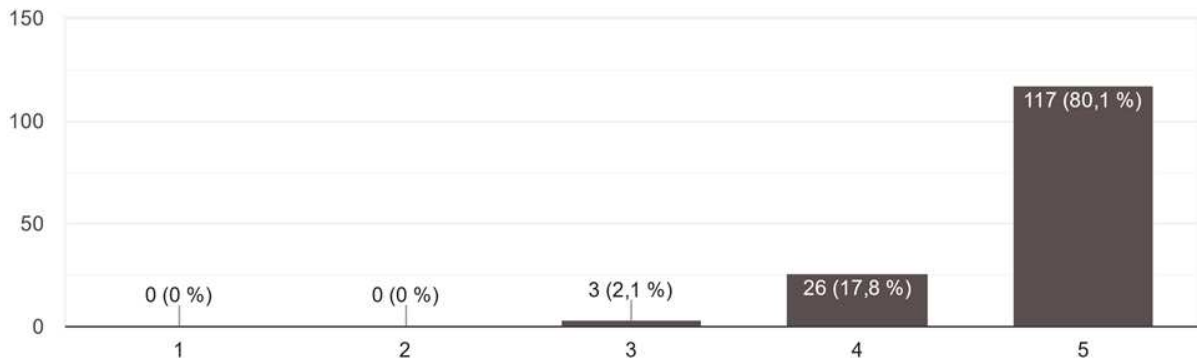
#### 2. Overall, please tell us how well structured the handbook is. 1 means not at all well structured and 5 means extremely well structured. 162 responses

From 162 answers 81.3% of the responders find the structure of training courses extremely well-structured, 16.9 % as well structured and 1.9 % structured.

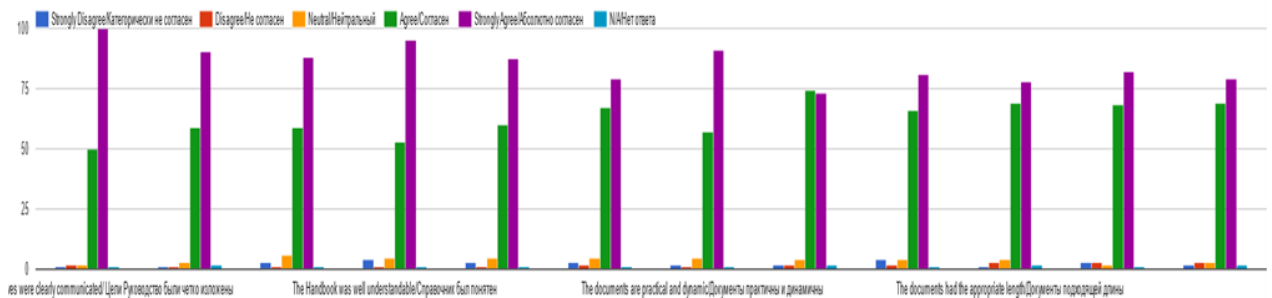


#### 3. Please tell us how you rate the quality using a 1 to 5 scale where 1 means very bad and 5 means extremely good. 162 responses

There were 162 answers for this question, from which 80.1 % find the quality of the training course extremely good, 17.8 % very good and 2.1% is good. .



- 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."



The structure of the questions was following:

- The Handbook objectives were clearly communicated**
  - 100 respondents strongly agreed
  - 50 respondents agreed
  - 2 respondents stayed neutral
  - 2 respondents disagreed
  - 1 respondent strongly disagreed
  - N/A
- The objectives were met:**
  - 90 respondents strongly agreed
  - 59 respondents agreed
  - 3 respondents stayed neutral
  - 1 respondent disagreed



- 1 respondent strongly disagreed*
- **The handbook serves well as source for Innovative Educational Technologies:**
    - 88 respondents strongly agreed*
    - 59 respondents agreed*
    - 6 respondents stayed neutral*
    - 1 respondent disagreed*
    - 3 respondents strongly disagreed*
  - **It is clear for what the training is needed:**
    - 99 respondents strongly agreed*
    - 44 respondents agreed*
    - 3 respondents stayed neutral*
    - 2 respondents disagreed*
    - 4 respondents strongly disagreed*
  - **The right people were addressed with the trainings:**
    - 94 respondents strongly agreed*
    - 52 respondents agreed*
    - 2 respondents disagreed*
    - 4 respondents strongly disagreed*
  - **The Handbook was well understandable**
    - 95 respondents strongly agreed*
    - 53 respondents agreed*
    - 5 respondents stayed neutral*
    - 1 respondent disagreed*
    - 4 respondents strongly disagreed*
  - **The right people were addressed by the Handbook**
    - 87 respondents strongly agreed*
    - 60 respondents agreed*
    - 5 respondents stayed neutral*
    - 1 respondent disagreed*
    - 3 respondents strongly disagreed*
  - **The technical instruments (electronic and paper version) used for the handbook was easy to access**
    - 79 respondents strongly agreed*
    - 67 respondents agreed*
    - 5 respondents stayed neutral*
    - 2 respondents disagreed*



- 3 respondents strongly disagreed*
- **The documents are practical and dynamic**
  - 91 respondents strongly agreed*
  - 57 respondents agreed*
  - 5 respondents stayed neutral*
  - 1 respondent disagreed*
  - 3 respondents strongly disagreed*
- **The Handbook adds a sense of accomplishment and a feeling of progress for the project**
  - 73 respondents strongly agreed*
  - 74 respondents agreed*
  - 4 respondents stayed neutral*
  - 2 respondents disagreed*
  - 2 respondents strongly disagreed*
- **The language used was appropriate**
  - 81 respondents strongly agreed*
  - 61 respondents agreed*
  - 4 respondents stayed neutral*
  - 2 respondents disagreed*
  - 2 respondents strongly disagreed*
- **The documents had the appropriate length**
  - 78 respondents strongly agreed*
  - 69 respondents agreed*
  - 4 respondents stayed neutral*
  - 3 respondents disagreed*
  - 1 respondent strongly disagreed*
- **The documents were well structured**
  - 82 respondents strongly agreed*
  - 66 respondents agreed*
  - 2 respondents stayed neutral*
  - 3 respondents disagreed*
  - 3 respondents strongly disagreed*
- **The documents were well understandable**
  - 79 respondents strongly agreed*
  - 69 respondents agreed*
  - 3 respondents stayed neutral*
  - 3 respondents disagreed*
  - 2 respondents strongly disagreed*





**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. The structure of the questions were following:

- **The documents will have an impact**
  - 64 respondents strongly agreed*
  - 87 respondents agreed*
  - 2 respondents stayed neutral*
  - 2 respondents disagreed*
  - 3 respondents strongly disagreed*
- **The literature recommended in the handbook is understandable**
  - 81 respondents strongly agreed*
  - 69 respondents agreed*
  - 4 respondents stayed neutral*
  - 2 respondents disagreed*
  - 3 respondents strongly disagreed*
- **The literature recommended in the handbook is useful**
  - 80 respondents strongly agreed*
  - 64 respondents agreed*
  - 5 respondents stayed neutral*
  - 1 respondents disagreed*
  - 2 respondents strongly disagreed*
- **The handbook helps me understand new educational technologies**
  - 75 respondents strongly agreed*
  - 73 respondents agreed*
  - 5 respondents stayed neutral*
  - 2 respondents disagreed*
  - 3 respondents strongly disagreed*
- **The handbook is what I expected**
  - 77 respondents strongly agreed*
  - 63 respondents agreed*
  - 10 respondents stayed neutral*
  - 4 respondents disagreed*
  - 2 respondents strongly disagreed*
- **The handbook has been distributed on time to help for the teaching with new technologies**
  - 68 respondents strongly agreed*



*85 respondents agreed*  
*4 respondents stayed neutral*  
*3 respondents disagreed*  
*2 respondents strongly disagreed*

• **The documents were useful for the teaching at my Institution**

*72 respondents strongly agreed*  
*78 respondents agreed*  
*3 respondents stayed neutral*  
*2 respondents disagreed*  
*3 respondents strongly disagreed*

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

*Out of the 162 respondents, 32 wrote their opinion.*

- ✓ no
- ✓ Dictionary
- ✓ suitable
- ✓ Everything was enough
- ✓ I did not add, everything was clear enough
- ✓ The handbook was in an appropriate length
- ✓ Not added
- ✓ Some tips
- ✓ Everything was thought up logically
- ✓ more detailed and understandable statements of instructions were needed
- ✓ everything was great
- ✓ If each reference book had specific tasks, it would be easier to study the course
- ✓ after each lesson, we would practice
- ✓ Yes
- ✓ There is a lot of unnecessary information in the first part of the Handbook.
- ✓ The handbook is appropriate
- ✓ Too many pictures, you can delete some
- ✓ I was satisfied with this handbook
- ✓ I was quite happy with this guide.
- ✓ Wouldn't add everything was normal
- ✓ nothing
- ✓ would not add
- ✓ it's okay
- ✓ not added
- ✓ At the second part of Handbook the last module was not appropriate



- ✓ Quite
- ✓ Everything is fine, perfect!
- ✓ It's OK
- ✓ Normal
- ✓ no added
- ✓ all is well
- ✓ Was a little incomprehensible or the translation was not perfect

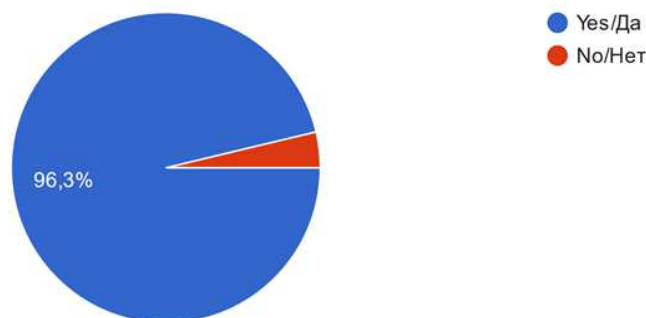
**7. If you disagree with any of the point above in No.5, please comment here mentioning the reasons.** 9 responses

*Answers were given by 9 respondents out of 162. All 9 respondents indicated that they agree with the above points:*

1. Agree
2. Agree
3. Agree
4. N / A
5. I agree on all points ...
6. Expectations from the handbooks were not exactly what we wanted to get
7. According to all points
8. No
9. I agree with everyone

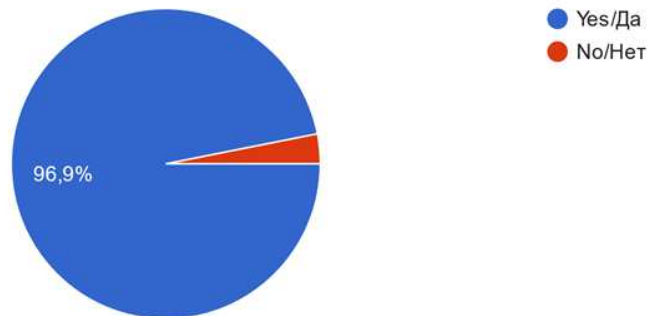
**8. Were the handbooks sent on time? 162 responses**

*From 162 responses 96,3% answered "YES"*



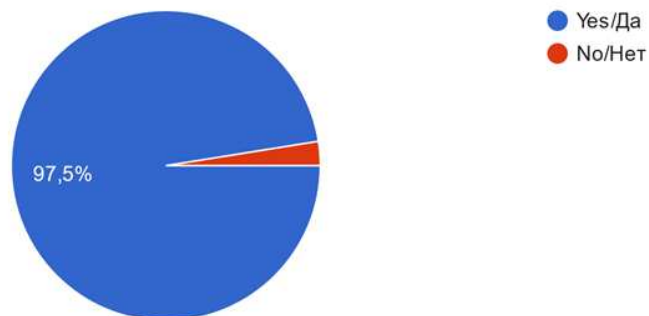
**9. Did you get the chance for comments and criticism?**

*From 162 responses 96.9% answered "YES"*



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

*From 162 responses 97.5 % answered "YES"*



**11. If the answer to question 9 was no, what comments would you have on the document? 7 responses**

*Answers were given by 7 respondents out of 162.*

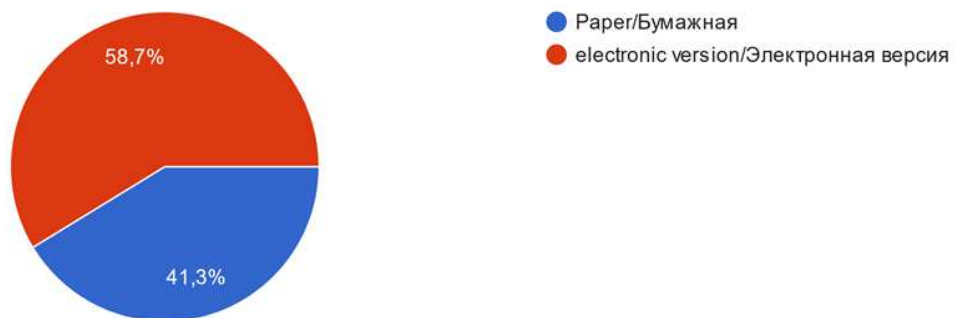
- ✓ *The criticism always comes true*
- ✓ *All perfectly*
- ✓ *No, nothing*
- ✓ *Not*
- ✓ *No*
- ✓ *No*



✓ *no comment*

### 12. Which version of the handbook did you prefer?

From 162 responses 58.7 % preferred electronic version and 41.3 % preferred Paper version of Handbook.



### 13. Why did you prefer one or the other version (question 12)? 27 responses

Out of the 162 respondents, 27 wrote their opinion.

- ✓ I prefer the paper version, as it is more convenient to read and view
- ✓ Paper is more convenient
- ✓ Paper based more easier to read and useful for health
- ✓ Paper is more interesting and convenient
- ✓ Much easier more convenient
- ✓ I like read books instead electronic version
- ✓ For me, the paper version is more convenient
- ✓ For me, the paper version is more convenient
- ✓ There is always an opportunity to read, the paper version can get lost at any time.
- ✓ electronic is also good
- ✓ Available to all
- ✓ this is a visual aid that I can read at any time
- ✓ more affordable than paper
- ✓ By reading the paper version of the book, I can reflect more than the electronic version
- ✓ Convenient to use
- ✓ Always and everywhere, I have access to it
- ✓ For me, the paper version was available and I prefer the paper version of books more.
- ✓ conveniently
- ✓ conveniently
- ✓ very comfortably



- ✓ Both versions are convenient
- ✓ it's easier to read
- ✓ I like to use electronic resources
- ✓ both are useful but paper is more convenient
- ✓ Convenient
- ✓ Easier to read from a computer
- ✓ Convenient to use, anytime and anywhere at hand

**14. Any other comments or suggestions:**

*Out of the 162 respondents, 31 wrote their comments or suggestions.*

1. everything was great
2. The handbook was appropriate for all HEIs to apply in our future practice especially the literature.
3. Russian translation was very bad
4. More such courses
5. The handbook is what I expected, because everything is in it step by step, and it is easily decomposed, I agree with these versions.
6. if we were provided with more information, and conducting more trainings would be great
7. Each lecture was carried out with practice it would be easier to study and analyze the program
8. be more practical
9. Thank you! Everything was the best!
10. Thanks to the developers!
11. It would be desirable to group the sections of the manual thematically by chapters
12. Excellent reference
13. the translation was not perfect
14. everything was super, the project taught me a lot, even my students use it all today, make recordings of their presentations
15. Ideally, at Khorog University, everyone speaks only about these courses and materials. A big plus for both the university and for teachers and the biggest plus for students
16. Thank you very much Anboz and Olga for the wonderful seminars and materials. And many thanks to all the coordinators!!!! More such seminars and teachers
17. The handbook was distributed not only to the right people, but it should have been distributed to all teachers, so the thing is very useful
18. everything was super!!!
19. Well done!!! Successful project!!!! Successful coordinators!!!!
20. Everything was clear and very interesting!
21. Thank you for your support



22. Develop even more
23. Thanks for the new knowledge!
24. Not
25. everything was wonderful
26. thank you very much for the courses
27. our coordinators at KSU literally forced everyone to take these courses, and this is good, as it helps a lot in the course of classes. If not to force, many would not even participate in the courses. Thank you and our coordinators.
28. I didn't understand a lot, I had to take the English version and look for many terms in a new way
29. everything is good and normal
30. excellent
31. great and thank you very much more of these courses



## **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.

### **WE CAN CONCLUDE FROM ANSWERS THAT:**

- 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.