



Co-funded by the  
Erasmus+ Programme  
of the European Union

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



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

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

**Project No: 598092-EPP-1-2018-1-BG-EPPKA2-CBHE-SP**

**Project Coordinator: ANGEL KANCHEV UNIVERSITY OF RUSE**



*Deliverable number:* 5.5

*Title:* Evaluation of the developed Handbook of Innovative Educational Technologies

*Type of deliverable:* Report

*Dissemination level:* International level

*Status/Version:* Final

*Date:*

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## EXECUTIVE SUMMARY

The quality and advantages of the developed Manual of innovative educational technologies were assessed taking into account the specific conditions in Kyrgyzstan.

The evaluation of the developed Handbook of Innovative Educational Technologies for Digital Skills Acquisition and Innovative Teaching and Learning Methods will reflect the views of the participants. The purpose of this assessment is to determine whether the developed Manual of innovative educational technologies will be useful in higher education institutions in Kyrgyzstan. This evaluation report will be attached to the progress reports.

The manual was developed in accordance with the project "[Modernization of the higher education system in Central Asia using new technologies](#)" (HiEdTec), WP5.5. Assessment of the developed Manual of innovative educational technologies.

## INTRODUCTION

The purpose of the assessment was to collect feedback on the developed Manual of innovative educational technologies.

The innovative educational technologies manuals were developed in Kyrgyz and Russian languages, and the main goal was to teach lecturers to use a learning management system, such as the Open Course System (Moodle), in the educational process and introduce useful functions of the system into the educational process of the classroom.

Trainers use the guide to improve their teaching methods, and they recognize that the guide has been really helpful and convenient for them.

In addition, the manuals were uploaded to the institutional portal so that lecturers, trainers could also independently study the methods of using LMS Moodle, etc. The manual reflected almost all the necessary steps for the preparation of effective video lectures and related programs, the use of the learning management system and the introduction of this knowledge in lectures.

## PROJECT OVERVIEW

In Kyrgyzstan, along with all sectors, the education system is developing both on an innovative and on a technological basis. "The Digital Kyrgyzstan for 2019-2023" was adopted by the Decree #20-p of the Kyrgyz Government on February 15, 2019. Given the fact that [position of the Kyrgyz Republic in the Education Level Index UNDP](#) was 65 in 2016, the country targets to achieve the level 50 by 2023.

In order to create and develop a digital educational system, it is essential to maintain its propitious software and technical. First of all, the network is created and the connection to this



network is ensured. Then the server is connected in order to host electronic information resources on the network, i.e. lecture notes, manuals, books, video files, presentations and images. After installing the software and the corresponding server operating system, access to information resources is provided through the educational portal. Thus, network users will be able to use available resources using any browser.

International projects on the introduction and development of a digital educational environment are also being conducted in the higher educational institutions of our country. One of them is the international project “Modernization of Higher Education in Central Asia through New - Technologies - HiEdTec”.

The duration of the program is 3 years, during which it is planned to implement all the tasks assigned. In turn, this is one of the types of activities for the implementation of “[The Concept for the Digital Kyrgyzstan](#)”, as well as the study of international experience in this direction.

Adaptation of Higher Education to the digital generation on the basis of ICTs can play a crucial role in transforming teaching, learning and research practices for educators and students, in a top-quality 21<sup>st</sup>-century education system. Therefore, it is important to continue to develop skills and knowledge in order to keep pace with the constant innovations and new developments in the digital world. At the same time, the use of ICTs will significantly improve education management culture. The activity of scientific and methodological centers, departments, faculties, educational departments and other structural units in educational institutions requires the introduction of innovative approaches in the area of education.

The main goal of the project is to adapt the education system in the 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 PCs.

The project will help transform partner higher education institutions into innovative universities and improve the quality of trained specialists needed to carry out the digital transformation of industries (Industry 4.0).



## HIEDTEC QUESTIONNAIRE RESULTS

### REPORT ON QUESTIONNAIRE

Overall respondents 179

#### 1. Question 1: Which country are you from?

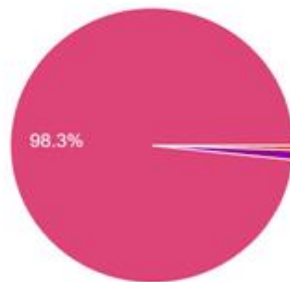
176 respondents are from Kyrgyzstan

2 respondents are from Turkmenistan

1 respondent is from Italy

1. Which country are you from?/Какую страну вы представляете?

179 responses



#### Question 2 : What is your university?

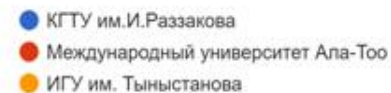
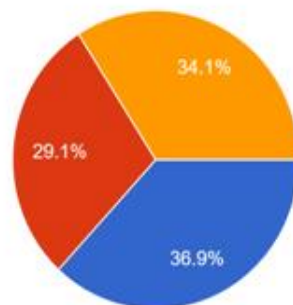
61 respondents from - ISU named after Tynystanov

66 respondents from KSTU named after Razzakov

52 respondents from International Alatoo University

Ваш университет

179 responses



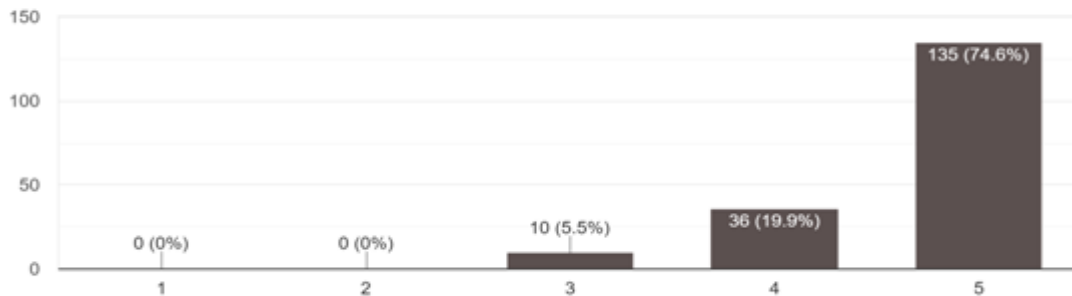


**2. Overall, please tell us how well structured the handbook is.**

1 means not very well structured and 5 means very well structured.

Out of 181 answers, 74.6% of respondents consider the structure of the training courses to be very well structured, 19.9% - well structured and 5.5% - structured.

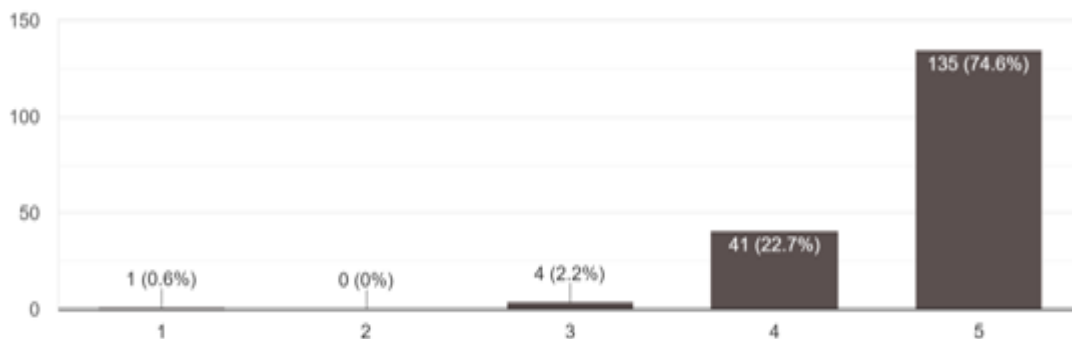
2. Overall, please tell us how well structured the handbook is. 1 means not at all well structured and 5 means extremely well structured. 2. В целом, ...рован и 5 означает очень хорошо структурирован.  
181 responses



**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.**

181 answers were given to this question, of which 74.6% consider the quality of the training course to be excellent, 22.7% - very good and 2.2% - good? 0.6 is very bad.

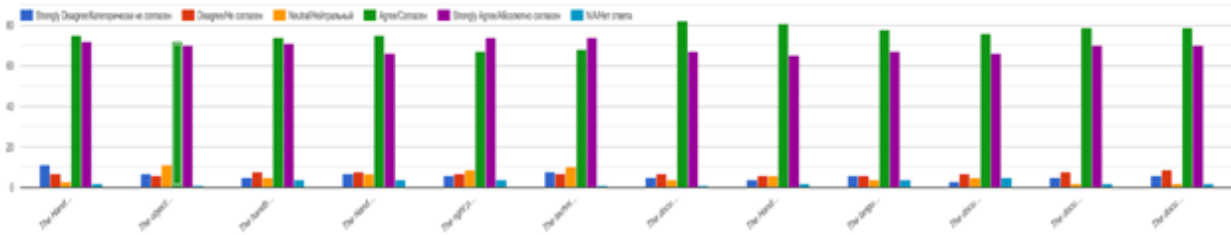
3. Please tell us how you rate the quality using a 1 to 5 scale where 1 means very bad and 5 means extremely good./ Пожалуйста, расскажите нам, к...де 1 означает очень плохо, а 5 - очень хорошо.  
181 responses





**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."**

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." / Теперь у нас есть несколько вопросов по макету и содержанию. Сообщите нам, насколько вы согласны со следующими утверждениями о справочнике, используя шкалу 1-5, где 1 означает, что вы категорически не согласны, а 5 означает, что вы полностью согласны. Если заявление к вам не относится, выберите «Нет ответа».



- The objectives of the Guide have been clearly stated**  
*72 respondents strongly agree*  
*75 respondents agree*  
*3 respondents remained neutral*  
*7 respondents disagree*  
*11 respondents strongly disagree*
- Objectives have been achieved**  
*70 respondents strongly agree*  
*72 respondents agree*  
*11 respondents remained neutral*  
*6 respondent disagree*  
*7 the respondent strongly disagrees*
- The guide serves as a good source of innovative educational technologies**  
*71 respondents strongly agree*  
*74 respondents agree*  
*5 respondents remained neutral*  
*8 respondent disagree*  
*5 respondents strongly disagree*
- The guide was understandable**  
*66 respondents strongly agree*  
*75 respondents agree*  
*7 respondents remained neutral*  
*8 respondent disagree*  
*7 respondents strongly disagree*





- **The handbook was distributed to the right people**
  - 74 respondents strongly agree*
  - 67 respondents agree*
  - 9 respondents remained neutral*
  - 7 respondent disagree*
  - 6 respondents strongly disagree*
- **Access to technical tools (electronic and paper version) of the manual was easy**
  - 74 respondents strongly agree*
  - 68 respondents agree*
  - 10 respondents remained neutral*
  - 7 respondents disagree*
  - 8 respondents strongly disagree*
- **Documents are practical and dynamic**
  - 67 respondents strongly agree*
  - 82 respondents agree*
  - 4 respondents remained neutral*
  - 7 respondent disagree*
  - 5 respondents strongly disagree*
- **The handbook adds a sense of accomplishment and a sense of progress in the project.**
  - 65 respondents strongly agree*
  - 81 respondents agree*
  - 6 respondents remained neutral*
  - 6 respondents disagree*
  - 4 respondents strongly disagree*
- **The language used was appropriate**
  - 67 respondents strongly agree*
  - 78 respondents agree*
  - 4 respondents remained neutral*
  - 6 respondents disagree*
  - 6 respondents strongly disagree*
- **The document was of the appropriate size**
  - 66 respondents strongly agree*
  - 76 respondents agree*
  - 5 respondents remained neutral*
  - 7 respondents disagree*



---

*3 the respondent strongly disagrees*

- **The document was well structured**

*70 respondents strongly agree*

*79 respondents agree*

*2 respondents remained neutral*

*8 respondents disagree*

*5 respondents strongly disagree*

- **The document was understandable**

*70 respondents strongly agree*

*79 respondents agree*

*2 respondents remained neutral*

*9 respondents disagree*

*6 respondents strongly disagree*

**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 handbook will have an impact**

*58 respondents strongly agree*

*76 respondents agree*

*15 respondents remained neutral*

*10 respondents disagree*

*5 respondents strongly disagree*

- **The literature recommended in the guide is understandable.**

*50 respondents strongly agree*

*94 respondents agree*

*9 respondents remained neutral*

*6 respondents disagree*

*13 respondents strongly disagree*

- **The literature recommended in the handbook is helpful.**

*50 respondents strongly agree*

*94 respondents agree*

*9 respondents remained neutral*

*7 respondent disagree*



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*8 respondents strongly disagree*

- **Handbook helps us understand new educational technologies**

*60 respondents strongly agree*

*83 respondents agree*

*7 respondents remained neutral*

*6 respondents disagree*

*9 respondents strongly disagree*

- **Handbook is what I expected**

*59 respondents strongly agree*

*78 respondents agree*

*14 respondents remained neutral*

*7 respondents disagree*

*5 respondents strongly disagree*

- **The handbook was distributed on time to assist in learning using new technologies.**

*58 respondents strongly agree*

*76 respondents agree*

*14 respondents remained neutral*

*6 respondents disagree*

*6 respondents strongly disagree*

- **The papers were helpful for teaching in my institution**

*55 respondents strongly agree*

*87 respondents agree*

*11 respondents remained neutral*

*7 respondents disagree*

*4 respondents strongly disagree*

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

Out of 182 respondents, 41 wrote their opinion

- *Nothing*
- *Everything is extremely accessible*
- *I have nothing to add*
- *It suits me*
- *The size is suitable.*
- *Everything is clear*



- 
- *Everything is good!*
  - *Abstain*
  - *Nothing, everything is available*
  - *Suitable*
  - *Added*
  - *Nothing to add*
  - *It is appropriate*
  - *Have added*
  - *Wouldn't add*
  - *Nothing to add.*
  - *Suitable reference*
  - *Nothing*
  - *I will be safe all*
  - *Suitable*
  - *Agree*
  - *I agree*
  - *Nothing*
  - *Everything is as it should be.*
  - *No*
  - *Everything is cool*

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

Out of 182 respondents 23 answers

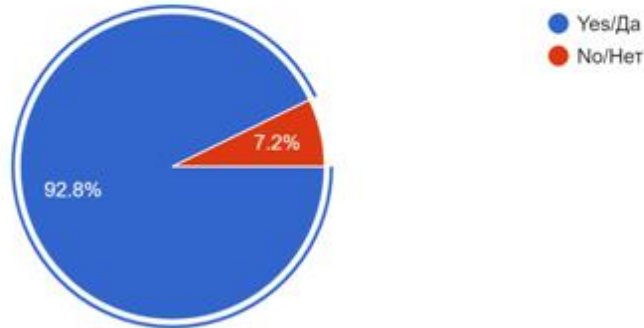
- *Agree*
- *I agree*
- *It would be more effective to distribute these guidelines before last year's pandemic*
- *No*
- *It's okay.*
- *I agree*
- *Anything good*
- *Everything is good*
- *Without cause*
- *Agree*
- *No comments*
- *Everything is very clear*



### 8. Were the handbooks sent on time?

Out of 182 respondents, 92.8% of the respondents answered - YES; 7.2% of respondents answered - NO

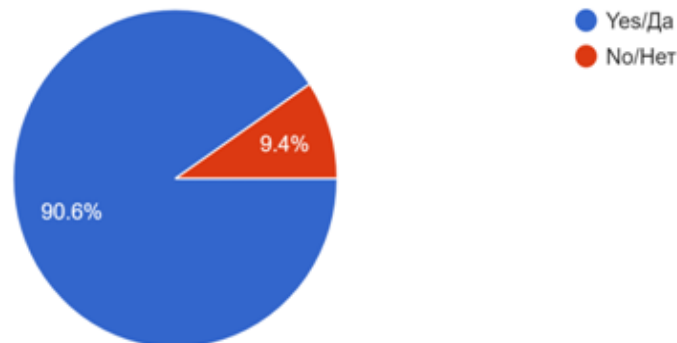
8. Were the handbooks sent on time?/8. Были ли руководства отправлены вовремя?  
181 responses



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

156 respondents said - yes  
17 respondents said - no

9. Did you get the chance for comments and criticism?/Вы получили возможность для комментариев и критики?  
180 responses

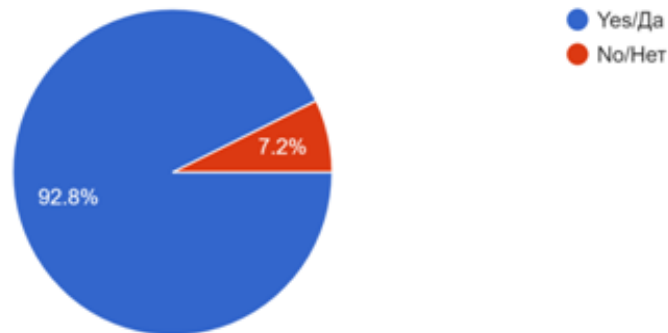




### 10. Was the final documents produced and sent in an appropriate time?

Out of 182 respondents, 92.8% of the respondents answered in the affirmative; 7.2% of respondents answered no

10. Was the final documents produced and sent in an appropriate time? / 10. Были ли окончательные документы подготовлены и отправлены в надлежащее время?  
180 responses



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

Out of 182 respondents, 23 respondents gave an answer.

- *I want to comment, but ...*
- *It's okay*
- *It's okay*
- *Not finalized*
- *None.*
- *Positive answer*
- *Good idea*

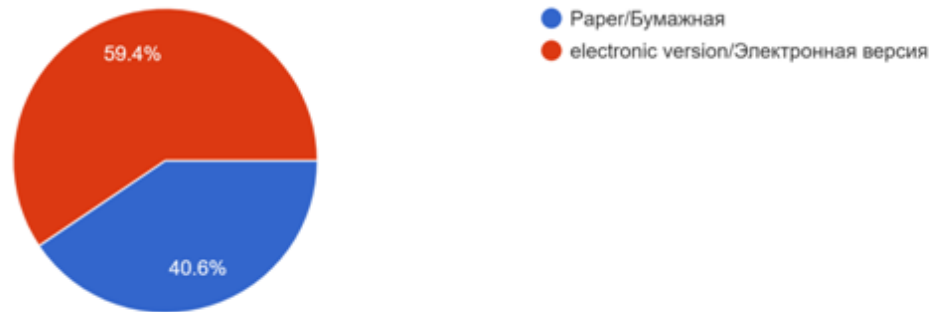
### 12. Which version of the handbook did you prefer?

Out of 180 responses 59.4% of the respondents answered that they prefer the electronic version; 40.6% of the respondents preferred the paper version.



12. Which version of the handbook did you prefer?/12. Какую версию справочника вы предпочли?

180 responses



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

Out of 182 replies, 85 answered:

- *Convenient*
- *Convenient to read.*
- *For me, the electronic*
- *Electronic version is much easier to share*
- *So much better and faster*
- *It is convenient for me*
- *The electronic format can be distributed via social networks*
- *I like paper version of books*
- *Convenient to use.*
- *Paper*
- *Can be read on any digital medium, well, it is easier to distribute electronically.*
- *Always at hand, handbook*
- *I am a person of the old alignment and prefer to read in a solid format.*
- *I prefer both of them. Sometimes electronic sometime handbook*
- *It is comfortable for me*
- *Everything is in my PC, that's why it is convenient to use.*
- *Electronic version is always available*
- *Reading is one pleasure*
- *Easier to work like this*
- *The paper version is familiar*
- *Electronic is useable*



- *Just a feeling*
- *Paper is much more comfortable for me*
- *Touch is very good*
- *Always at hand and easy to read*
- *Always in my device*
- *It is easy to look at any time.*
- *The electronic version is very convenient*
- *Ease of use*
- *Because comfortable*
- *The paper version is convenient for me*
- *Because it is convenient*
- *Convenient to read from digital devices*
- *I choose both paper and electronic versions, for me there is not much difference.*
- *Because the paper can be lost or torn, pour over coffee, etc.*
- *Easier to share the electronic version*
- *I care for nature*
- *You can share on social networks*
- *The electronics can be read from any digital device. And in the guide itself, it was mentioned that you need to adapt to the digital world.*
- *I prefer both*
- *It is more convenient for me to read in paper version*
- *I can share the electronic version with colleagues*
- *I'm used to working with information on paper*
- *Ability to copy and use in your work*
- *Ability to share information with your colleagues. but a paper version is also needed*
- *At any time from my phone I can see*
- *Convenient to read*
- *Available any time*
- *Convenient version*
- *Better absorbed*
- *Remote*
- *Mobility.*
- *Can be read on any digital device*
- *So digitalization ...*
- *The digital format is more convenient for me*
- *Digital generation*
- *Like it*
- *You can read on your smartphone*
- *Klassika*





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

Out of 182 replies, 50 answered:

- *Thanks to the authors for these tutorials. They were very helpful during the online learning period.*
- *Thank you very much for the work of the teachers and for the survey*
- *Very helpful guides for digital adaptation*
- *Good luck*
- *Thanks for this guide, very helpful work.*
- *Your training manual was late for a year*
- *It would be great if we got all these guides before the pandemic. And then during the quarantine they were so worn out with new technologies.*
- *Good luck*
- *Forward to new teaching methods!*
- *The electronic version is now more relevant*
- *Thank you, everything is top notch*
- *Good luck everyone!*
- *Nothing*
- *Good luck.*
- *I wish you success*
- *It would be nice if all educational institutions would use this technology.*
- *Thank you!*
- *Thanks for the helpful guides*
- *Organize more detailed courses for administrative staff*
- *Thanks, helpful guides*
- *Thank you, informative guides. I learned a lot of useful things.*
- *Thanks for the well-written and structured information*
- *Very helpful guides*
- *The material was very helpful*
- *It was really useful for us*
- *No comments*
- *No comments*
- *Cognitive questions*
- *Prosperity*
- *Good luck*
- *Thanks for the guides*



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## **CONCLUSION**

This report is an evaluation of the developed Handbook of Innovative Educational Technologies. As a result, trainers will be able to learn how to organize innovative courses based on digital skills, how to benefit from the Moodle learning management system and how to prepare effective video lectures.

We selected the questionnaire as a methodology for assessing the quality of work and evaluating results for future deliverables.

### **We can conclude from answers that:**

- The structure of the of the developed Handbook of Innovative Educational Technologies was well-organized;
- The quality of the of the developed Handbook of Innovative Educational Technologies is high;
- The quality of the layout and content is good;
- The level of achieved objectives of the of the developed Handbook of Innovative Educational Technologies is high;
- Chance for comments, criticism and timing was provided well;
- The developed Handbook of Innovative Educational Technologies is useful for all users.