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



# Evaluation of the Cloud-based Virtual Library of the digital educational resources KYRGYZSTAN

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

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THROUGH NEW TECHNOLOGIES  
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**Abstract**

Cloud-based Virtual Libraries of the digital educational resources is being developed in accordance with strategic goals of the "Modernization of the Higher Education System in Central Asia through new technologies" HiEdTech project. Cloud-based Virtual Library is a curation of free educational resources and tools to assist students, educators, parents and the community.

Evaluation Questionnaire Report of the Cloud-based Virtual Library of the digital educational resources was prepared in partner universities from Kyrgyzstan. The quality and use of the Cloud-based Virtual Library of the digital educational resources were assessed taking into account the specific conditions in Kyrgyzstan.

Evaluation Report of the Cloud-based Virtual Library of the digital educational resources in Kyrgyzstan will reflect the views of the participants. This Questionnaire should be the source for the evaluation report of the Cloud-based Virtual Library of the digital educational resources for the deliverable 4.5. The purpose of this assessment is to determine if the Cloud-based Virtual Library of the digital educational resources have been properly established in accordance with the requirements. This evaluation report will be attached to the records of the work done.



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## **INTRODUCTION**

Cloud-based Virtual Library of Kyrgyzstan has been created with digital educational resources based on the distance learning environment Moodle LMS. The main server is located in KSTU. Address of the library is [www.openkstu.kg](http://www.openkstu.kg) Through the means of HiEdTec project, communication equipment was supplied to the universities of the consortium of Kyrgyzstan, on the basis of which a virtual library was created. The virtual library is developed in accordance with the requirements of the project, there are mandatory elements – the logo of the European Union, the logo of the HiEdTec project and information about the project.

Moreover, on the main page of our virtual library there are categories of courses. These are courses of the following universities: International University of Ala-Too (P5), K.Tynystanov Issyk-Kul State University (P6) and Kyrgyz State Technical University named after I. Razzakov (P7) . In parallel, IKSU created its own resource - a virtual library, which address [www.moodleiksu.kg](http://www.moodleiksu.kg)



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## **PROJECT OVERVIEW**

The Cloud-based Virtual Library of the digital educational resources is designed to provide access to educational courses in the open space to all teachers, as well as students, thereby providing the opportunity for EVERYONE to study at ANY time and in ANY place with the help of ANY teacher, using ANY end device.

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).

The Project acknowledges the use of technology in transforming learning, developing collaboration solutions, enhancing the role of educators in innovative technology-supported learning environments allowing them to be engaged in professional learning experiences that will prepare to apply research-based approaches to didactic teaching.



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**HiEdTec - SURVEY RESULTS**

**GENERAL INFORMATION**

We received a total of 119 responses to our questionnaire:

**This Questionnaire should be the source for the evaluation report of the Cloud-based Virtual Library of the digital educational resources for the deliverable 4.5., Kyrgyzstan**

**1. Which country do you represent? 115 Answers**

115 of respondents answered – Kyrgyzstan

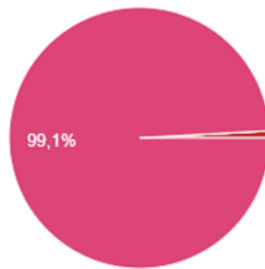
1 the respondent answered - Kazakhstan (citizens of Kazakhstan work in the AIU)

4 respondents didn't answer this question

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



115 ответов



- Luxembourg\Люксембург
- Italy\Италия
- Portugal\Португалия
- Bulgaria\Болгария
- Turkmenistan\Туркменистан
- Uzbekistan\Узбекистан
- Kyrgyzstan\Кыргызстан
- Tajikistan\Таджикистан
- Kazakhstan\Казахстан



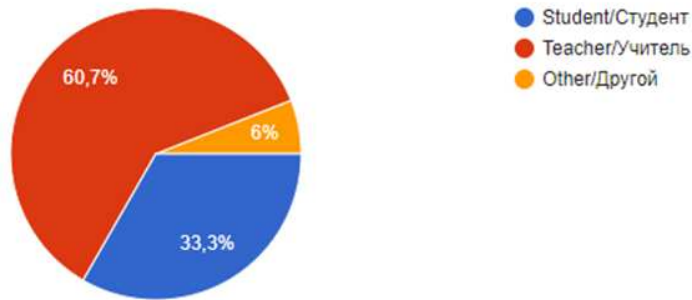
### 2. Who are you?

117 answers, 2 respondents didn't answer  
60,7% Students (71 respondents)  
33,3% Teachers (39 respondents)  
6% Others (7 respondents)

2. Who are you?/Кто вы?

117 ответов

Копировать



### 3. Overall, how well structured the Cloud-based Virtual Library (1 - not at all structured, 5 - very well structured). 117 replies, 2 didn't reply

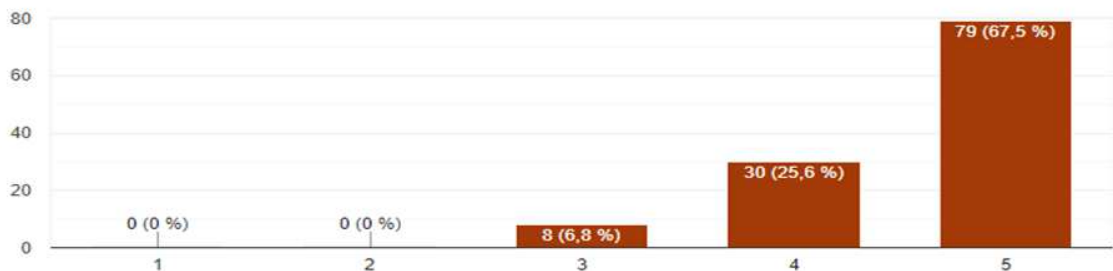
Out of the 117 responses, 67.5% of respondents considered the structure of the center is very well structured, 25.6% of respondents - a well-structured and 6.8% of respondents consider the structure is average

3. Overall, please tell us how well structured the Cloud-based Virtual Library of the digital educational resources is - 1 means not at all well structured and 5 means extremely well structured.

Копировать

3. Пожалуйста, скажите, насколько хорошо структурирована облачная виртуальная библиотека цифровых образовательных ресурсов - 1 означает, что она не совсем хорошо структурирована, а 5 означает, что она очень хорошо структурирована.

117 ответов







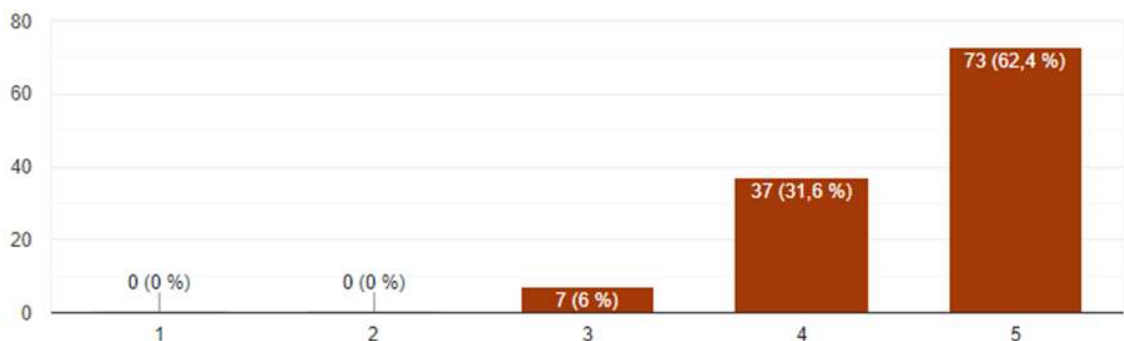
**4. How well do you rate the quality of the Cloud-based Virtual Library? (1 - very bad 5 - very good).**

117 answers were given to this question, 62,4% consider the quality to be very good, 31,6% - good, 6% - average, 2 respondents didn't answer

4. 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, как вы оцениваете качество по шкале от 1 до 5, где 1 означает очень плохо, а 5 - очень хорошо.



117 ответов



**5. How do you rate the search function of the library using a 1 to 5 scale where 1 means very bad and 5 means extremely good.**

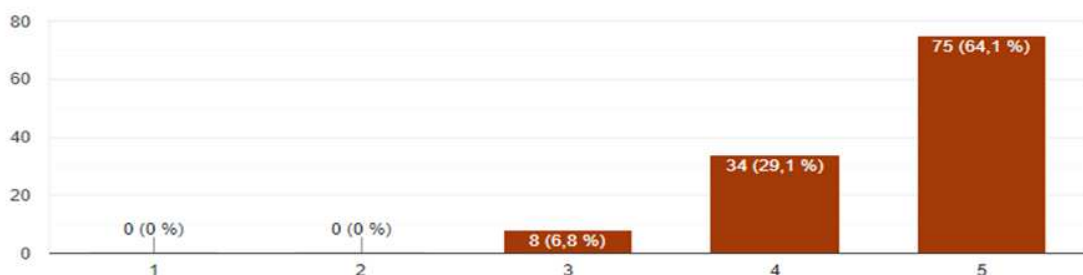
117 answers were given to this question: 64,1% consider the search function as extremely good, 29,1% - good, 6,8% - average, 2 respondents didn't answer.

5. Please tell us how you rate the search function of the library using a 1 to 5 scale where 1 means very bad and 5 means extremely good.



5. Пожалуйста, скажите, как вы оцениваете функцию поиска в библиотеке по шкале от 1 до 5, где 1 означает очень плохо, а 5 - очень хорошо.

117 ответов





**6. Does the library have the following promised features?**

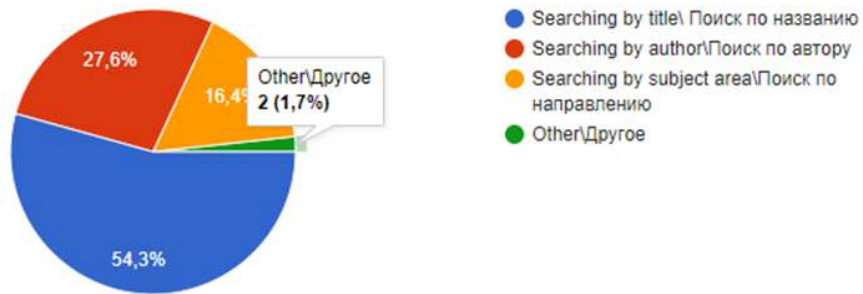
116 answers were given to this question, 54,3% answered Searching by title, 27,6% Searching by author, 16,4% Searching by subject area, 1,7% Other. 3 respondents didn't answer

6. Does the library have the following promised features?



6. Имеет ли библиотека следующие обещанные функции?

116 ответов



**7. How would you rate the search functions mentioned in question 6?**

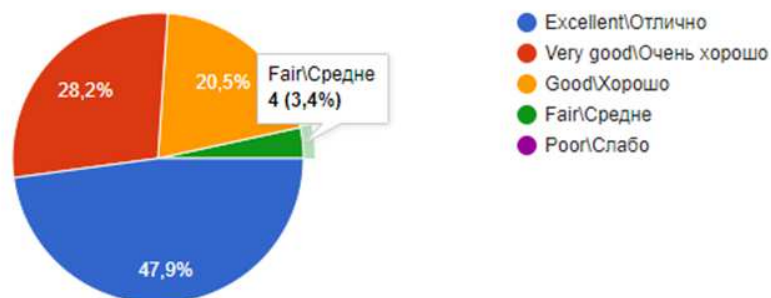
117 answers were given to this question, 2 didn't reply: 47,9% answered Excellent, 30,5% Very good, 21,2% good, 3,4% fair

7. How would you rate the search functions mentioned in question 6?



7. Как бы вы оценили функции поиска, упомянутые в вопросе 6?

117 ответов





**8. A few questions about the use and purpose of the Cloud-based Virtual Library. Indicate how much you agree with the following statements about the Virtual Library.**

**Rate from 1 to 5. (1 - strongly disagree, 5 - strongly agree. If the statement does not apply to you, select "No answer".**

The structure of the questions was as follows:

• **Objectives were clearly communicated:**

*44 respondents strongly agree*  
*49 respondents agree*  
*3 respondents remained neutral*  
*1 respondents answered no data*  
*2 respondents strongly disagree*  
*1 respondents disagree*  
*19 respondents did not answer this question*

• **Objectives were met:**

*43 respondents strongly agree*  
*47 respondents agreed*  
*6 respondents remained neutral*  
*3 respondents strongly disagree*  
*1 respondent NA*  
*19 respondents did not answer this question*

• **Follow-up actions resulted from the Cloud-based Virtual Library of the digital educational resources:**

*40 respondents strongly agree*  
*53 respondents agreed*  
*4 respondents remained neutral*  
*3 respondent strongly disagree*  
*1 respondent NA*  
*18 respondent did not answer this question*

• **It is clear for what the Cloud-Based Virtual Library of the digital educational resources is needed for:**

*44 respondents strongly agree*  
*50 respondents agreed*  
*3 respondents remained neutral*  
*2 respondents strongly disagree*  
*1 respondents replied that there is no data*  
*19 respondent did not answer this question*



• **The right people were addressed with the use for the Cloud-based Virtual Library of the digital educational resources:**

*43 respondents strongly agree  
46 respondents agreed  
5 respondents remained neutral  
2 respondents disagree  
1 respondent NA  
22 respondent did not answer this question*

• **The technical equipment has been explained sufficiently:**

*40 respondents strongly agree  
50 respondents agreed  
3 respondents remained neutral  
3 respondents NA  
23 respondent did not answer this question*

• **The technical equipment is exactly the one necessary and working for this purpose:**

*43 respondents strongly agree  
50 respondents agreed  
3 respondents remained neutral  
2 respondents disagree  
2 respondent answered no data  
19 respondent did not answer this question*

• **I can correctly use and explain what I have to do to use the Cloud-based Virtual Library of the digital educational resources**

*47 respondents strongly agree  
46 respondents agreed  
3 respondents remained neutral  
1 respondents disagree  
2 respondents strongly disagree  
1 respondents answered no data  
19 respondent did not answer this question*

• **The Virtual Library is exactly what is needed in the Institution to advance the learning processes:**

*50 respondents strongly agree  
43 respondents agreed  
2 respondents remained neutral  
2 respondents answered no data  
22 respondents did not answer this question*



- **The Library provided helps to develop the teaching in an innovative way:**

*45 respondents strongly agree  
48 respondents agreed  
3 respondents remained neutral  
1 the respondent strongly disagrees  
2 respondent answered no data  
20 respondent did not answer this question*

- **The students profit from the new innovative virtual library:**

*47 respondents strongly agree  
47 respondents agreed  
3 respondents remained neutral  
3 respondents strongly disagree  
1 respondent answered no data  
18 respondent did not answer this question*

**9. We would also like to get your feedback on the outreach of the Cloud-based Virtual Library of the digital educational resources.** (1 - strongly disagree, 5 - strongly agree).

The structure was the following questions:

- **The Cloud-based Virtual Library of the digital educational resources will have an impact**

*39 respondents strongly agree  
52 respondents agreed  
5 respondents remained neutral  
1 respondents answered no data  
1 the respondent strongly disagrees  
1 respondent disagree  
20 respondent did not answer this question*

- **The Cloud-based Virtual Library of the digital educational resources is useful for the teaching/studying at my Institution:**

*38 respondents strongly agree  
56 respondents agreed  
2 respondents remained neutral  
4 respondents strongly disagree  
2 respondents answered no data  
17 respondent did not answer this question*

- **The things I can learn on the Cloud-based Virtual Library of the digital educational resources will help me to attract better students to the institution:**

*39 respondents strongly agree  
55 respondents agreed*



*2 respondent remained neutral  
2 respondent strongly disagree  
2 respondent answered no data  
19 respondent did not answer this question*

• **The Virtual Library will help to create more innovative teaching inside the institution:**

*40 respondents strongly agree  
52 respondents agreed  
6 respondents remained neutral  
3 respondent replied that there is no data  
1 respondent strongly disagree  
20 respondent did not answer this question*

• **The Library and the information stored within helps teachers to hold more interesting classes:**

*38 respondents strongly agree  
56 respondents agreed  
3 respondents remained neutral  
2 respondent answered no data  
20 respondent did not answer this question*

• **The virtual library helps teachers/the institution to please the needs of their students better:**

*40 respondents strongly agree  
53 respondents agreed  
3 respondents remained neutral  
1 respondent strongly disagree  
2 respondent answered no data  
20 respondent did not answer this question*

• **The virtual library delivers exactly the result that I expected when we started the project:**

*37 respondents strongly agree  
57 respondents agreed  
2 respondents remained neutral  
2 respondent answered no data  
21 respondents did not answer this question*

• **The use of the virtual library makes my life as a teacher/student easier**

*42 respondents strongly agree  
51 respondents agreed  
3 respondents remained neutral  
2 respondent answered no data  
21 respondents did not answer this question*



- **The use of the virtual library makes teaching more fun:**
  - 40 respondents strongly agree*
  - 54 respondents agreed*
  - 2 respondent answered no data*
  - 2 respondents neutral*
  - 21 respondents did not answer this question*
- **The usage of the virtual library makes students learn better:**
  - 42 respondents strongly agree*
  - 51 respondents agreed*
  - 3 respondents remained neutral*
  - 2 respondent answered no data*
  - 1 respondent strongly disagree*
  - 20 respondents did not answer this question*
- **The students seem to have more fun during their studies when using the new virtual library :**
  - 40 respondents strongly agree*
  - 52 respondents agreed*
  - 4 respondents remained neutral*
  - 2 respondent answered no data*
  - 1 respondent strongly disagree*
  - 20 respondents did not answer this question*
- **The use of the virtual library makes teaching/studying more effective:**
  - 41 respondents strongly agree*
  - 51 respondents agreed*
  - 2 respondents remained neutral*
  - 3 respondent answered no data*
  - 3 respondents strongly disagree*
  - 19 respondents did not answer this question*

**10. If the cloud-based Virtual Library of the digital educational resources was not what you expected, what would you have expected?**

*34 out of 119 respondents wrote their opinion.*

Everything is good.  
Everything is well structured.  
Would do it again.  
It would just be a learning tool.  
Nothing  
Audio books



A normal resource  
Nothing  
The same as now.  
Would expect more information from teachers  
Expectations are justified  
Positive  
Useful course  
Hard to answer  
Would use the regular library  
Everything as we wanted  
It's what we expected.  
This is what I was looking forward to  
I would start working on this project again.  
👉  
I would've expected a fix.  
She was what I expected  
Would've been humbled.  
Nothing  
Books  
Developments  
More  
Don't know  
No

**11. If you disagree with any of the point above in No.8 or 9, please comment here mentioning the reasons.**

*Answers were given by 23 respondents out of 119 respondents. All respondents indicated that they agree with the points above:*

Agreed  
No  
I agree.  
No comment  
I totally agree  
The virtual library improves the quality of education, so I absolutely agree with all points  
Positive  
My answer is positive  
Agree  
It is available everywhere.  
I agree



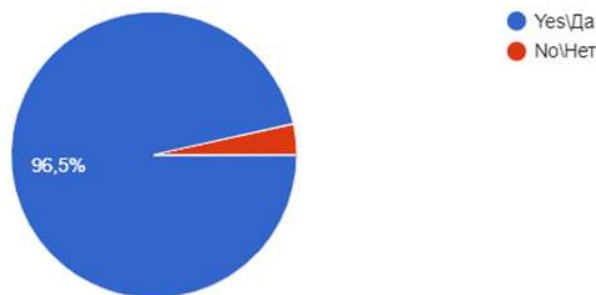


## 12. Was the installation of the cloud-based Virtual Library of the digital educational resources done on time?

96,5% of 114 answers answered "YES". 6 people didn't answer the question

12. Was the installation of the cloud-based Virtual Library of the digital educational resources done on time?/12. Была ли установка облачной виртуальной библиотеки цифровых образовательных ресурсов выполнена в срок?

114 ответов

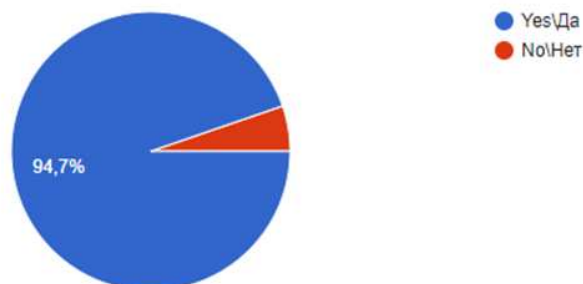


## 13. Did you get the opportunity for comments and criticism?

94,7% answered "YES" out of 114. 5 respondents didn't answer the question.

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

114 ответов





**14. If the answer to question 13 was NO, what comments or criticism would you make in the Cloud-based Virtual library? 13 answers.**

All comments are positive and no criticism

- No
- All right
- Nothing
- Yes
- No remarks
- No comment
- My answer is yes
- No remarks.
- I have not thought about it yet.
- No comment.
- No.
- No
- Yes
- No

**15. Any other comments you may have. 48 answers**

*69 out of 119 respondents left their comments.*

- Great
- Cool
- Good
- Thanks
- Good
- Very Good
- 
- Thank you very much for the project. We have learned a lot.
- Keep up the good work.
- You can add audio books
- Good luck
- Good luck to you!
- The introduction of a cloud virtual library of digital educational resources will enhance the capacity of teachers and raise students' interest in classes, thereby qualitatively improve the educational process.
- I think that cloud virtual library of digital educational resources has great prospects for implementation.
- .
- I would like new chairs for classrooms.
- I wish success in my work.
- Our coordinators have a lot of energy.
- Good luck to you



Good luck  
Thanks a lot  
Very good content  
A very informative library  
Sonun  
Rahmat  
Good library  
Thank you  
Very helpful material  
I'm fine with it 😊👏  
It is useful in learning.  
Thank you so much!  
Useful materials  
Content is nice  
Informative  
Nice  
Very nice  
Thank you!  
Very nice project  
Great job  
Godly  
Wonderful project  
Very cool, thanks  
Very productive project  
My expectations were met, very cool  
Cool  
Very cool  
Very informative  
great project  
The best virtual library  
Thanks for the virtual library  
Cool  
Thank you to the coordinators for a great project  
We hope for the sustainability of the project and the addition of new materials to the library content  
Great, thank you. It met my expectations.  
I wish there would be a continuation of such a great project



## **CONCLUSION**

This report is an evaluation of the Questionnaire is to serve as the source for the evaluation report of the Cloud-based Virtual Library of the digital educational resources. As a result, valuable information was acquired about the current state of the Cloud-based Virtual Library of the digital educational resources. Appropriate conclusions were made in order to improve the quality of digital educational resources.

This questionnaire was chosen as a methodology for assessing of the quality of the Cloud-based Virtual Library of the digital educational resources.

**From the answers it can be concluded that:**

- ✓ The structure of the Cloud-based Virtual Library of the digital educational resources was well organized;
- ✓ The quality of the Cloud-based Virtual Library of the digital educational resources is very high;
- ✓ The level of goals achieved in the development of the Cloud-based Virtual Library of the digital educational resources was very high;
- ✓ of the Cloud-based Virtual Library of the digital educational resources is very useful for all users.