REPORT
ON THE QUESTIONNAIRE
FOR THE EVALUATION
OF THE CLOUD-BASED VIRTUAL
LIBRARY OF THE DIGITAL
EDUCATIONAL RESOURCES
IN TAJIKISTAN

PROJECT:
**Modernisation 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**

**With the support of the Erasmus+ programme
of the European Union**

Dushanbe – 2022

Editor

Deliverable number: 5.10

Title: EVALUATION REPORT OF THE CLOUD-BASED VIRTUAL LIBRARY OF THE DIGITAL EDUCATIONAL RESOURCES OF THE REPUBLIC OF TAJIKISTAN

Type of nature of deliverable: Report

Dissemination level: National level

Status/Version: Final

Date: November, 2022

Main authors

MAMADAMON ABDULLOEV - TAJIK TECHNICAL UNIVERSITY NAMED AFTER ACADEMICIAN M.OSIMI

GULNORA ANVAROVA - TAJIK TECHNICAL UNIVERSITY NAMED AFTER ACADEMICIAN M.OSIMI

Contributing persons

STEFANIE OESTLUND – UNIVERSITY OF LUXEMBOURG

AHROR JAFAROV – TECHNOLOGICAL UNIVERSITY OF TAJIKISTAN

OLGA SAYFULLAEVA – KHOROG STATE UNIVERSITY NAMED AFTER M.NAZARSHOEV,

Contents

Executive summary

The report on the Questionnaire for the evaluation of the Cloud-based Virtual Library of the digital educational resources was prepared in accordance with the implementation plans of the HiEdTec project.

This will be an evaluation of the Cloud-based Virtual Library of the digital educational resources. The quality and benefits of the Cloud-based Virtual Library of the digital educational resources were evaluated taking into account the specific conditions in Tajikistan.

The assessment of the Cloud-based Virtual Library of the digital educational resources reflects the opinions of the participants only. The purpose of this assessment is to determine whether the Cloud-based Virtual Library of the digital educational resources was properly organized in accordance with the requirements. This evaluation report will be attached to the final report.

Introduction

The goal of the 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. The purpose of the evaluation was to collect feedback on the Cloud-based Virtual Library of the digital educational resources. The Cloud-based Virtual Library of the digital educational resources was developed in accordance with the project "Modernization of the system of higher education in Central Asia through new technologies" (HiEdTec). The Cloud-based Virtual Library of the digital educational resources aims to create the availability of educational courses in open access 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 device.

Project overview

The main aim of the project is to adapt the education system in the partner countries in Central Asia (PCs or partner countries) to the digital generation through introduction and effective use of ICT-based Innovative Educational Technologies and Didactic Models (IET&DMs) in the teaching process.

This aim corresponds to the strategic priorities for development of education in each of the Partner Countries (PC), i.e. supporting the use of digital

technologies and online delivery to improve pedagogies and assessment methods. The project will help turn the partner's higher educational institutions (HEIs) into innovative Universities and will improve the quality of the trained specialists who are necessary to perform the Digital Transformation of Industries (Industry 4.0). The consortium comprises of 24 full partners – HEIs from 4 EU countries and 5 partner countries in Central Asia. The consortium includes two types of higher education institutions (HEIs): European HEIs with solid experience in the innovative educational technologies and HEIs from Central Asia which want to introduce these technologies and open pedagogies in the field of higher education in order to improve and extend the supply of high quality learning opportunities tailored to the needs of digital learners.

In the framework or project realization it was created 5 virtual libraries in each partner country. A virtual library of Tajikistan has been created with digital educational resources based on the distance learning environment Moodle LMS. Address of library: https://moodle.tut.tj/ .

Through the HiEdTec project, communication equipment was supplied to the universities of the consortium of the Republic of Tajikistan, on the basis of which a virtual library of Tajikistan was created. The main server is located in TUT. The virtual library of Tajikistan was created by the TUT team.

The virtual library is made 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.

Also on the main page of our virtual library there are 3 categories of courses. These are courses of the following universities: Khorog state University named M.Nazarshoev, Tajik technical University named M.Osimi and Technological University of Tajikistan. All courses are developed using elements and resources of the Moodle platform.

Developing Questionnaire for the evaluation of the Cloud-based Virtual Library of the digital educational resources. Analysing the results of Questionnaire.

ANALYSIS OF QUESTIONNAIRE FOR THE EVALUATION OF THE CLOUD-BASED VIRTUAL LIBRARY OF THE DIGITAL EDUCATIONAL RESOURCES OF THE REPUBLIC OF TAJIKISTAN

1. *Which country are you from?* 176 responses from Tajikistan
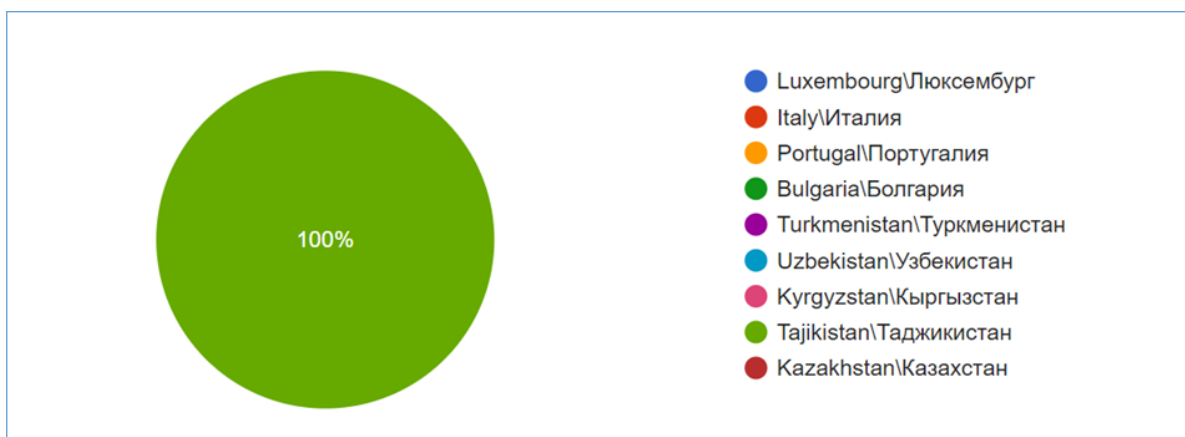
Figure 1.

2. *Who are you*? 172 responses answered to this question. As it shown on fig.2 - 67,4% are students and 31.4% are teachers.

Figure 2.

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

Co-funded by the
Erasmus+ Programme
of the European Union
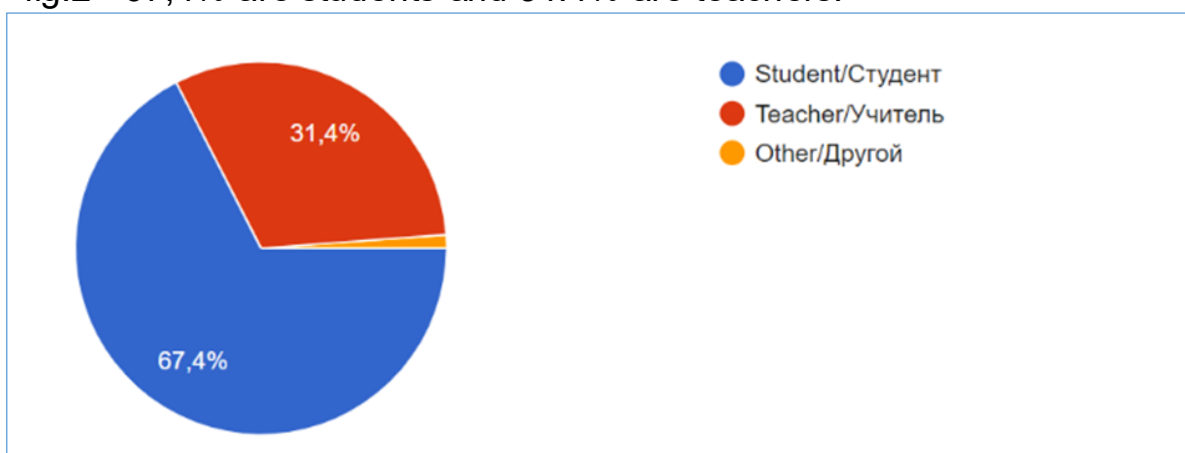
3. Overall, please tell us how well structured the Cloud-based Virtual Library of the digital educational resources is - 1 means not at all well structured and 5 means extremely well structured.

From 176 answers 96,6% of the responders find the structure of training courses extremely well-structured, 2,8% as well structured, and 0.6 % - not at all well-structured.
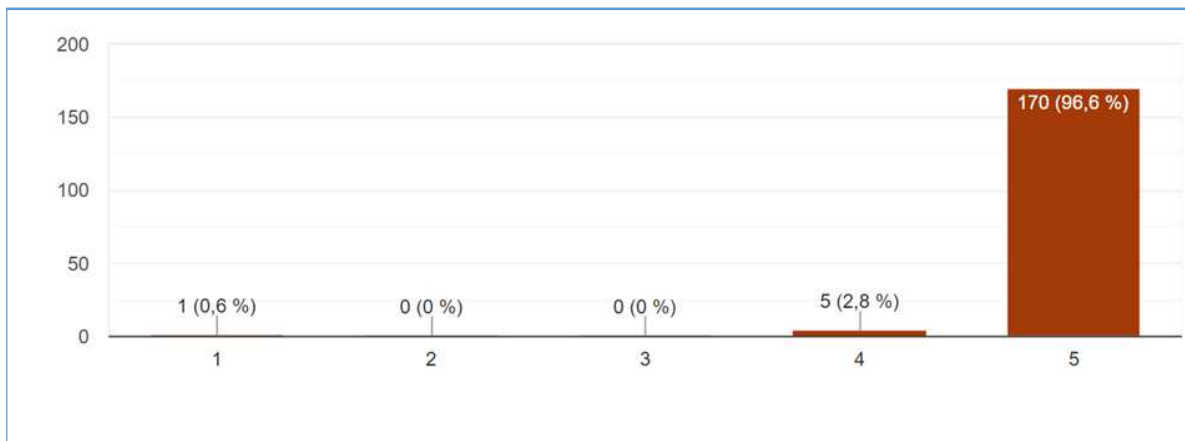
Figure 3.

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.

There were 176 answers for this question, from which 94,3% find the quality of the training course extremely good, 5,1% as very good, and 0,6 % - very bad.

Figure 4.

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

Co-funded by the
Erasmus+ Programme
of the European Union
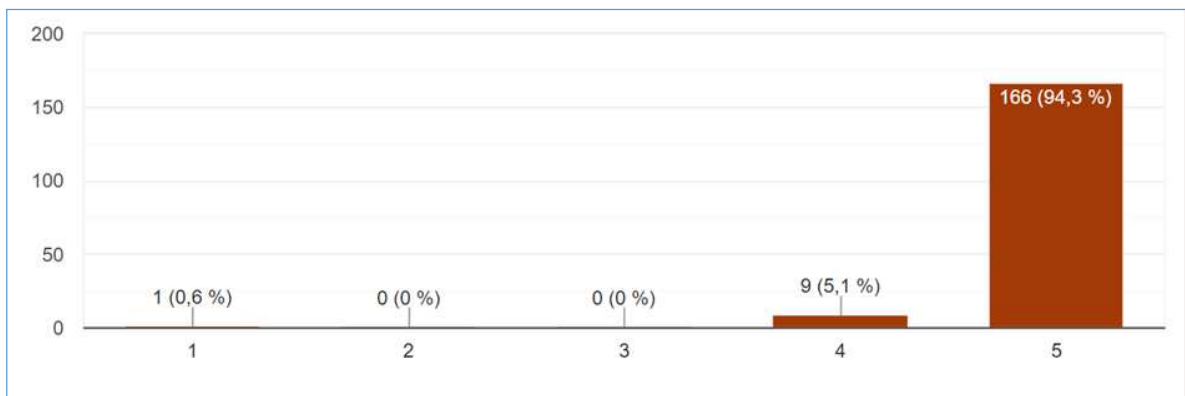
5. Please tell us how you rate the search function of the library using a 1 to 5 scale where 1 means very bad and 5 means extremely good.

There were 175 answers for this question, from which 95.4% find the the search function of the library extremely good, 4% as very good, and 0,6 % - good.
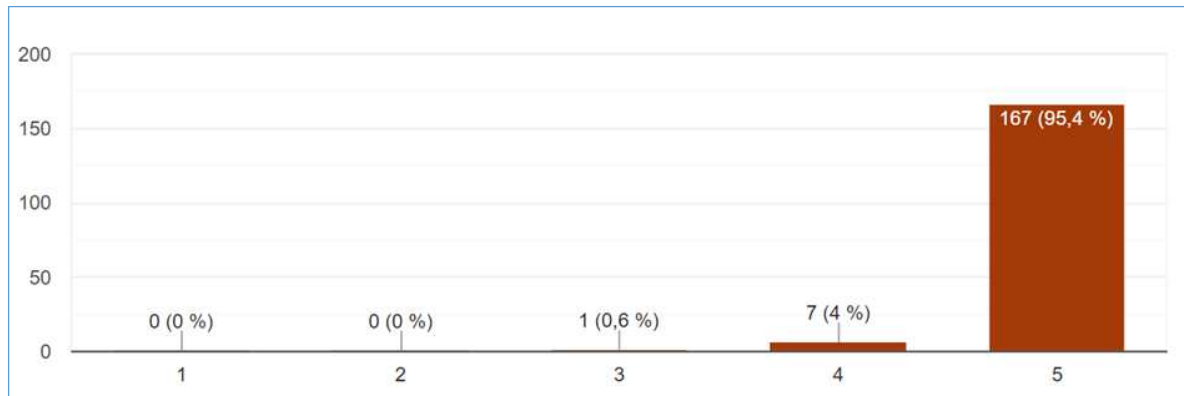
Figure 5.

6. Does the library have the following promised features?
There were 172 answers for this question, from which 45,9% find the the search by title, 44,2% by author, and 9,9% - by subject.
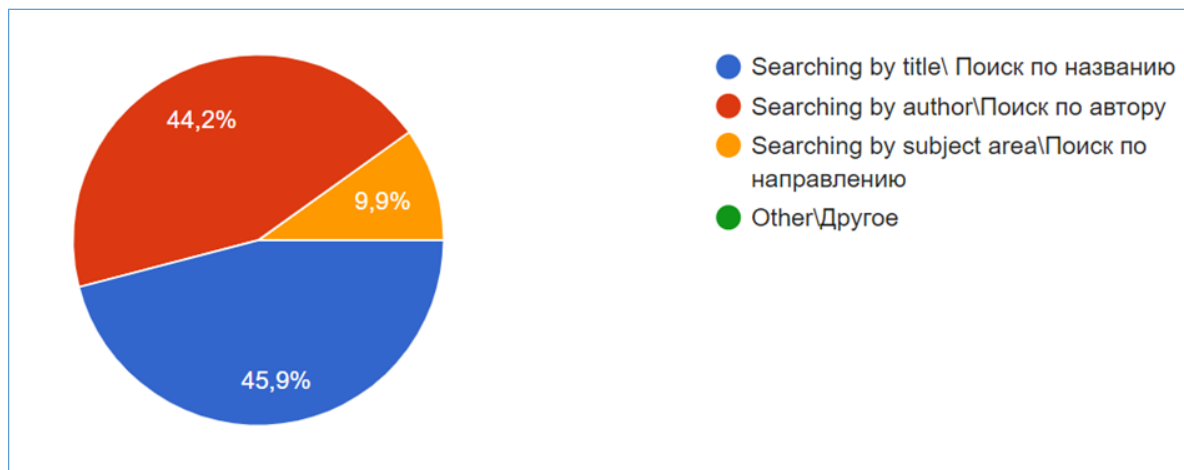
Figure 6.

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

There were 175 answers for this question, from which 78.3% responded as excellent, 17.1% - good, and 4,6 % - as good.
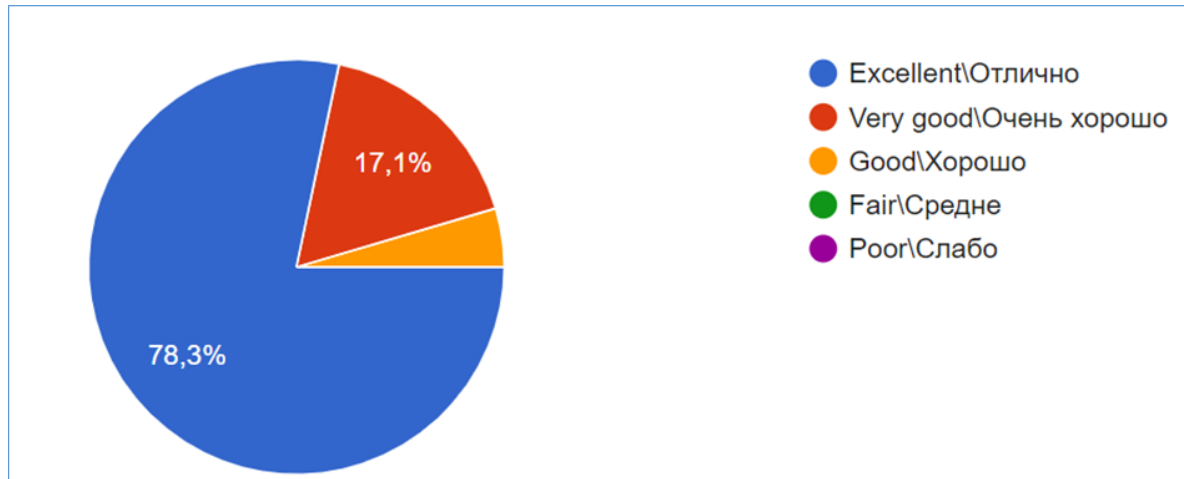
Figure 7.

8. *Now we have a few questions about the objectives of the Cloud-based Virtual Library of the digital educational resources. Please tell us your level of agreement with the following statements about the Cloud-based Virtual Library of the digital educational resources, 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 were as follows:
- *The objectives were clearly communicated:*
  ✓ 155 respondents strongly agreed
  ✓ 12 respondents agreed
  ✓ 2 respondents disagree
  ✓ 6 respondent answered not available

- *The objectives were met:*
  ✓ 154 respondents strongly agreed
  ✓ 12 respondents agreed
  ✓ 2 respondents disagree

✓ 2 respondents strongly disagree

✓ 5 respondent answered not available

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

✓ 153 respondents strongly agreed

✓ 14 respondents agreed

✓ 2 respondents disagree

✓ 7 respondents stayed neutral

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

✓ 160 respondents strongly agreed

✓ 7 respondents agreed

✓ 2 respondents disagree

✓ 2 respondents strongly disagree

✓ 5 respondents stayed neutral

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

✓ 155 respondents strongly agreed

✓ 11 respondents agreed

✓ 2 respondents disagree

✓ 8 respondents stayed neutral

- *The technical equipment has been explained sufficiently:*

✓ 156 respondents strongly agreed

✓ 10 respondents agreed

✓ 2 respondents disagree

✓ 2 respondents strongly disagree

✓ 6 respondents stayed neutral

- *The technical equipment is exactly the one neccessary and working for this purpose:*

✓ 155 respondents strongly agreed

✓ 11 respondents agreed

✓ 2 respondents disagree

✓ 8 respondents stayed neutral

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

✓ 156 respondents strongly agreed

✓ 9 respondents agreed

✓ 2 respondents disagree

✓ 2 respondents strongly disagree

✓ 7 respondents stayed neutral

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

✓ 157 respondents strongly agreed

✓ 9 respondents agreed

✓ 2 respondents disagree

✓ 2 respondents strongly disagree

✓ 6 respondents stayed neutral

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

✓ 158 respondents strongly agreed

✓ 9 respondents agreed

✓ 3 respondents disagree

✓ 2 respondents strongly disagree

✓ 4 respondents stayed neutral

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

✓ 156 respondents strongly agreed

✓ 11 respondents agreed

✓ 2 respondents disagree

✓ 1 respondent strongly disagree

✓ 6 respondents stayed neutral

9. *We would also like to get your feedback on the outreach of the Cloud-based Virtual Library of the digital educational resources. 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 was as follows:

- *The Cloud-based Virtual Library of the digital educational resources will have an impact:*
  - ✓ 152 respondents strongly agreed
  - ✓ 14 respondents agreed
  - ✓ 3 respondents disagree
  - ✓ 1 respondent strongly disagree
  - ✓ 6 respondents stayed neutral

- *The Cloud-based Virtual Library of the digital educational resources is usful for the teaching/studying at my Institutio:*
  - ✓ 155 respondents strongly agreed
  - ✓ 12 respondents agreed
  - ✓ 3 respondents disagree
  - ✓ 1 respondents strongly disagree
  - ✓ 5 respondents stayed neutral

- *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:*
  - ✓ 157 respondents strongly agreed
  - ✓ 9 respondents agreed
  - ✓ 3 respondents disagree
  - ✓ 2 respondents strongly disagree
  - ✓ 5 respondents stayed neutral

- *The Virtual Library will help to create more innovative teaching inside the institution:*
  - ✓ 154 respondents strongly agreed
  - ✓ 12 respondents agreed
  - ✓ 2 respondents disagree

- ✓ 2 respondents strongly disagree
- ✓ 6 respondents stayed neutral

- *The Library and the information stored within helps teachers to hold more interesting classes:*
    - ✓ 159 respondents strongly agreed
    - ✓ 9 respondents agreed
    - ✓ 2 respondents disagree
    - ✓ 2 respondents strongly disagree
    - ✓ 4 respondents stayed neutral

- *The virtual library helps teachers/the institution to please the needs of their students better:*
    - ✓ 157 respondents strongly agreed
    - ✓ 10 respondents agreed
    - ✓ 3 respondents disagree
    - ✓ 2 respondents strongly disagree
    - ✓ 4 respondents stayed neutral

- *The virtual library delivers exactly the result that I expected when we started the project:*
    - ✓ 160 respondents strongly agreed
    - ✓ 7 respondents agreed
    - ✓ 3 respondents disagree
    - ✓ 1 respondent strongly disagree
    - ✓ 5 respondents stayed neutral

- *The use of the virtual library makes my life as a teacher/student easier:*
    - ✓ 159 respondents strongly agreed
    - ✓ 7 respondents agreed
    - ✓ 3 respondents disagree
    - ✓ 1 respondent strongly disagree
    - ✓ 6 respondents stayed neutral

- *The use of the virtual library makes teaching more fun:*
    - ✓ 160 respondents strongly agreed
    - ✓ 8 respondents agreed

✓ 3 respondents disagree
✓ 1 respondent strongly disagree
✓ 4 respondents stayed neutral

- *The usage of the virtual library makes students learn better:*
    ✓ 157 respondents strongly agreed
    ✓ 10 respondents agreed
    ✓ 3 respondents disagree
    ✓ 1 respondent strongly disagree
    ✓ 5 respondents stayed neutral

- *The students seem to have more fun during their studies when using the new virtual library:*
    ✓ 159 respondents strongly agreed
    ✓ 6 respondents agreed
    ✓ 3 respondents disagree
    ✓ 2 respondents strongly disagree
    ✓ 6 respondents stayed neutral

- *The use of the virtual library makes teaching/studying more effective:*
    ✓ 154 respondents strongly agreed
    ✓ 14 respondents agreed
    ✓ 3 respondents disagree
    ✓ 2 respondent strongly disagree
    ✓ 3 respondents stayed neutral

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

Out of the 176 respondents, 12 wrote their opinion.

✓ Good luck
✓ We did not expect to get such result, today when we learned how to use the virtual library and saw the results, we are grateful to the project

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

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

- ✓ From the very beginning of the project, we knew that the project would be successful, and expected all the results
- ✓ At the beginning of the project, we had a different view of the results. During the implementation of the project, we knew that all the results would be achieved
- ✓ Good luck
- ✓ I want to add more books
- ✓ We always look forward to the most incredible projects and trainings from our international department.
- ✓ We knew that everything would be as planned
- ✓ It was difficult at first but learned to use many technologies thanks to your technologies and training
- ✓ As expected, it all happened.
- ✓ Don't know
- ✓ Disappointment

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

Out of the 176 respondents, 7 wrote their opinion.

- ✓ I agree with all points
- ✓ I absolutely agree with all the points above in #8 and #9
- ✓ I agree
- ✓ I agree
- ✓ I agree with all points
- ✓ I agree with everyone.

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

12. Was the installation of the cloud-based Virtual Library of the digital educational resources done on time?
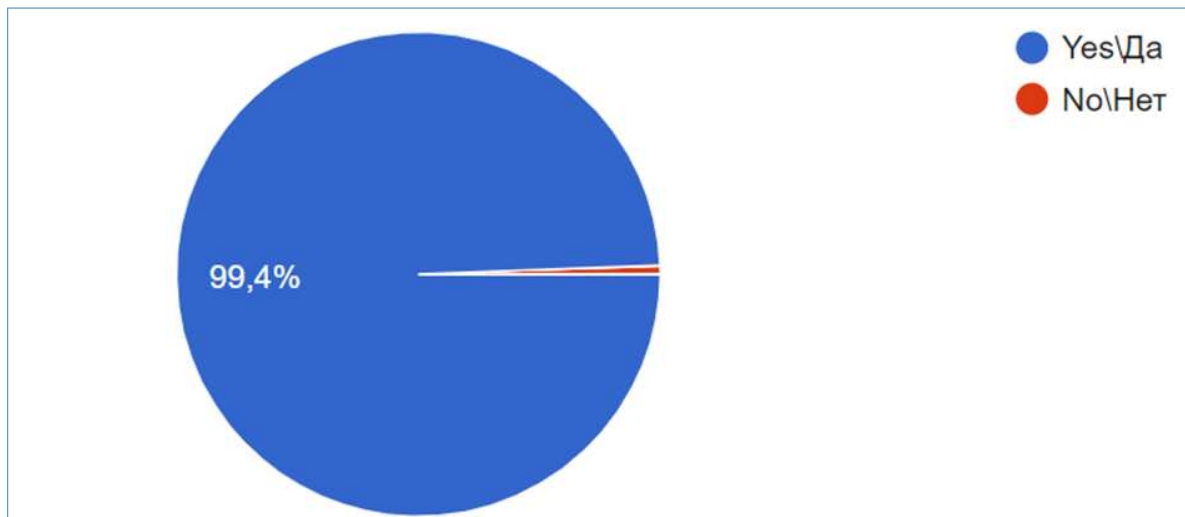
From 175 responses 99,4% answered "YES"

Figure 8.

13. Did you get the cnance for comments and criticism?
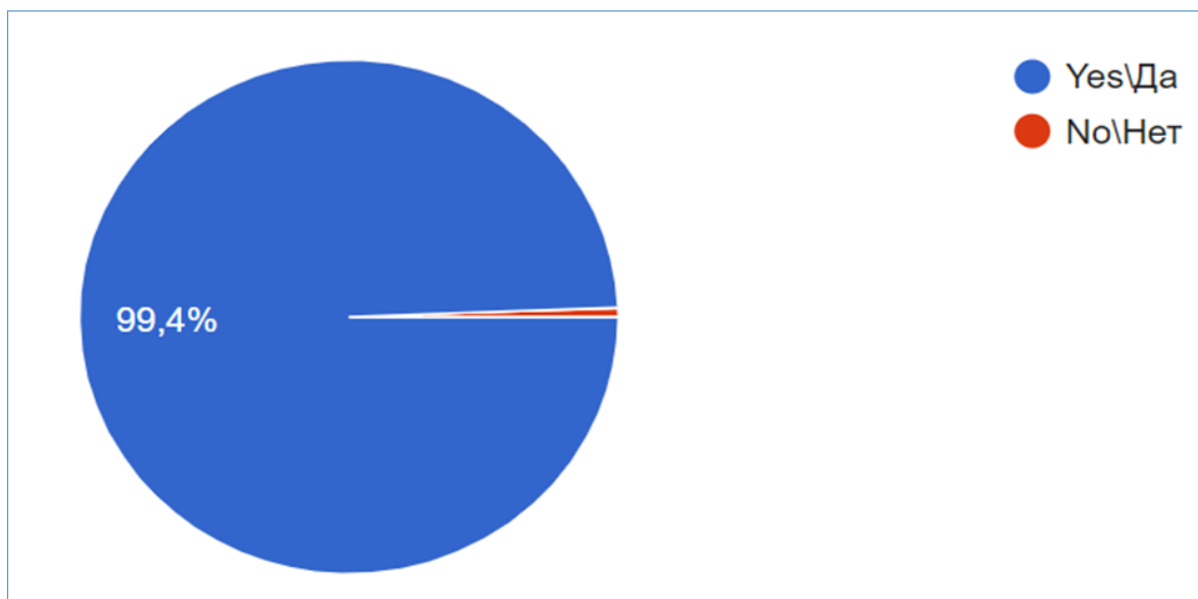
From 176 responses, 99.4 % answered "YES"

Figure 9.

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

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

14. If the answer to question 13 was no, what comments or criticism would you have on the open educational resources?

3 responses answered:
- ✓ To have enough resources....
- ✓ So that there are enough resources on the cloud virtual library
- ✓ Positive answer

15. Any other comments. 20 out of 176 respondents recorded the answers.

- ✓ Yes
- ✓ Everything is done at the highest level
- ✓ Thanks a lot to the project for changing our view of education today. Learned how to use electronic resources.
- ✓ Many thanks to the project coordinators for a very interesting and useful project
- ✓ Thanks to the project, we understood what digitalization and a virtual library are. Thanks to the project and coordinators, as well as course organizers
- ✓ Very useful system for students and teachers
- ✓ A very useful system (Virtual Library) for students and teachers.
- ✓ Thank you so much
- ✓ Very good digital library system, I will recommend it to my friends and relatives
- ✓ Thanks to this project, our students have the opportunity to see the world differently.
- ✓ Thanks for the project
- ✓ Thank you very much for a great project!!!
- ✓ It was interesting to work on the project
- ✓ Thanks to our coordinators
- ✓ Let there be more projects like this.
- ✓ Thank you very much Erasmus + program coordinators
- ✓ Thank you very much for the project!!!
- ✓ Thanks to the coordinators and the European Union Program
- ✓ Thanks
- ✓ Thanks for this result.

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.