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



EVALUATION OF THE CENTERS FOR INNOVATIVE EDUCATIONAL TECHNOLOGIES TURKMENISTAN

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

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EXECUTIVE SUMMARY

Evaluation Questionnaire Report of the Centers for Innovative Educational Technologies was prepared in accordance with the training courses that were conducted in partner universities from Turkmenistan. An assessment of the Centers for Innovative Educational Technologies will be undertaken here. The quality and use of the centers for digital skills acquisition and innovative teaching and learning methods were assessed taking into account the specific conditions in Turkmenistan.

Evaluation of the Centers for Innovative Educational Technologies will reflect the views of the participants. The purpose of this assessment is to determine if the Centers for Innovation Educational Technology have been properly established in accordance with the requirements. This evaluation report will be attached to the records of the work done.

Centers for Innovative Educational Technologies were organized in accordance with the project "Modernization of the Higher Education System in Central Asia through new technologies" (HiEdTec), WP5.4.

INTRODUCTION

The purpose of evaluation was to collect feedback on the Centers for innovative educational technologies in Turkmenistan. Centers for innovative educational technologies were opened at the International University for the Humanities and Development (P11), at the Oguz Han Engineering and Technology University of Turkmenistan (P12), at the State Energy Institute of Turkmenistan (P13).

The centers were created in accordance with the project "Modernization of Higher Education in Central Asia through New Technologies" (HiEdTec) with the aim of improving the qualifications of teachers, teaching digital skills, adapting the educational system to the digital generation through the active and effective use of ICT-based innovative educational technologies thereby contributing to the digital transformation of education.

Objectives of the Center:

- to implement innovative educational technologies, adapting them to the conditions of the university;
- to promote innovative educational technologies, including virtual education model through various lectures, courses, seminars, trainings;
- to assist in equipping all lecture halls, and subsequently, laboratories, with interactive presentation systems and laptops;
- to participate in organizing and conducting national seminars and conferences on the



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digital transformation of education;

- to participate in organizing and conducting national and international conferences in the field of digital transformation of education;
- to popularize own activities on social networks and to disseminate project outcomes.

PROJECT OVERVIEW

Trainers trained in digital skills and innovative teaching and learning methods have organized teacher training courses at every partner university in Turkmenistan. The courses were focused on a practical orientation and allowed lecturers / teachers to further use them in the educational process.

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 based on ICT in the educational process.

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

The project recognizes the use of technology in transforming learning, developing collaboration solutions, enhancing the role of educators in an innovative technology-supported learning environment, enabling them to engage in professional learning that prepares them to skillfully apply research-based approaches to didactic learning.



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HiEdTec - SURVEY RESULTS for the FORM of “EVALUATION OF THE CENTERS FOR INNOVATIVE EDUCATIONAL TECHNOLOGIES”

GENERAL INFORMATION

We received a total of 115 responses to our questionnaire:

**Questionnaire for the Assessment of Center for Innovative Educational Technologies,
Turkmenistan**

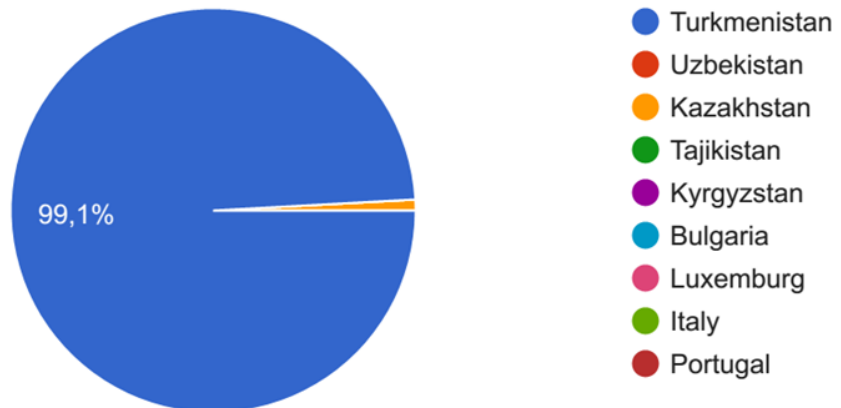
1. Which country do you represent? 115 Answers

114 of respondents answered – Turkmenistan

1 of the respondent answered - Kazakhstan (citizen of Kazakhstan working in ATU)

Which country do you represent?

115 ответов



2. Which institution do you represent?

115 answers, of which:

43,5 % *State Energy Institute of Turkmenistan (50 respondents)*

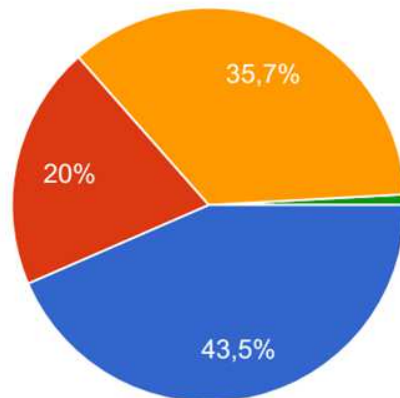
35,7 % *International University for the Humanities and Development (41 respondents)*

20 % *Oguzhan Engineering-Technology university of Turkmenistan (23 respondents)*



Which institution do you represent?

115 ответов



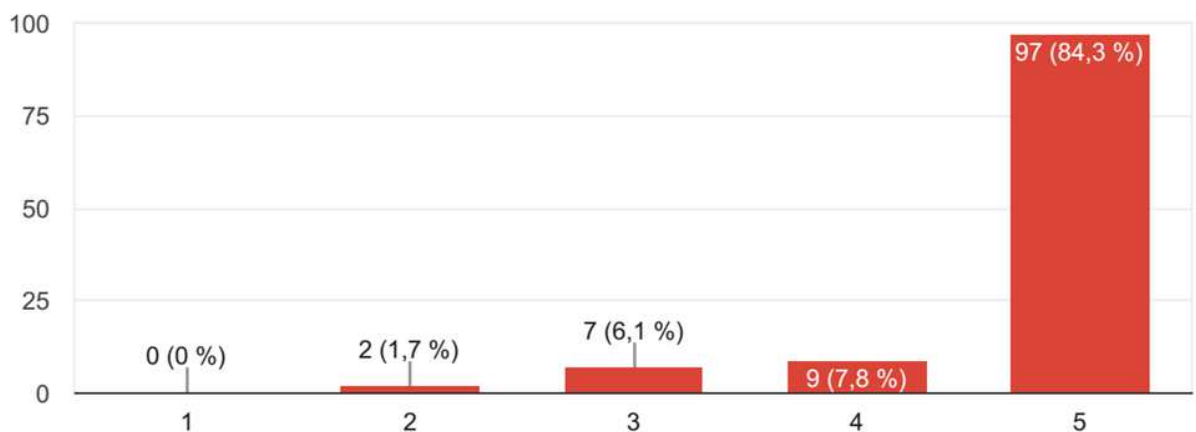
- State Energy Institute of Turkmenistan
- Oguzhan Engineering-Technology university of Turkmenistan
- International University for the Humanities and Development
- ATU

3. Overall, how well structured the Center is? (1 - not at all structured, 5 - very well structured). 115 replies

Of the 115 responses, 84.3% of respondents considered the structure of the center is very well structured, 7.8% of respondents – well-structured and 3% of respondents consider the structure is neutral.

Overall, how well structured the Center is?

115 ответов



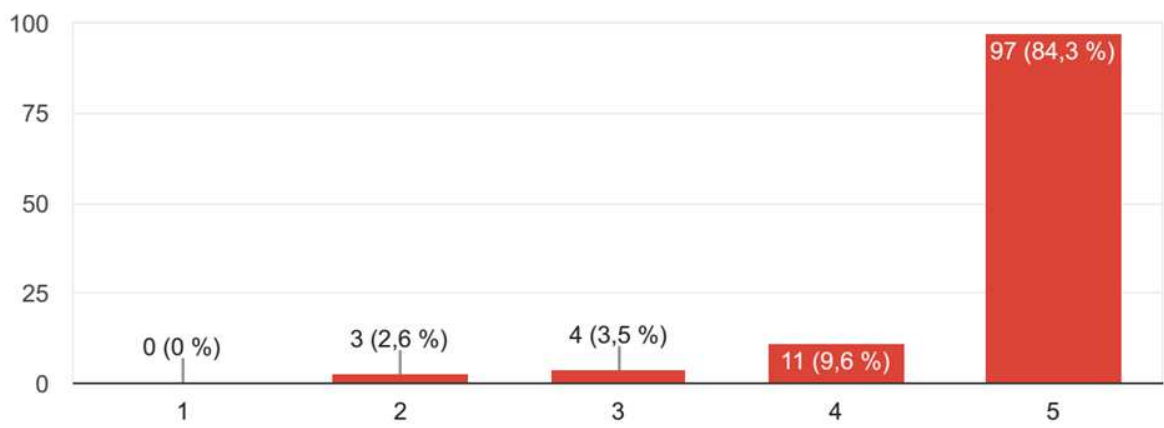


4. How well do you rate the quality of the Center? (1 - very bad 5 - very good).

115 answers were received for this question, of which 84.3% consider the quality to be very good, 9.6% - good, 3.5% - neutral, and 2.6% think that the quality is bad.

How well do you rate the quality of the Center ?

115 ответов



5. A few questions about the use and purpose of the Centers. Indicate how much you agree with the following statements about the Center. Rate from 1 to 5. (1 - strongly disagree, 5 - strongly agree.)

The structure of the questions was as follows:

- **Objectives have been achieved:**

- 83 respondents strongly agree*
- 11 respondents agree*
- 9 respondents remained neutral*
- 10 respondents disagree*
- 1 respondent strongly disagrees*

- **Follow-up activities achieved as a result of the work of the Center:**

- 79 respondents strongly agree*
- 14 respondents agree*
- 9 respondents remained neutral*
- 10 respondents disagree*
- 2 respondent strongly disagree*



- **Center's objectives and mission are clear:**
 - 81 respondents strongly agree*
 - 13 respondents agree*
 - 8 respondents remained neutral*
 - 10 respondents disagree*
 - 4 respondent strongly disagree*

- **The Right People Have Been Involved in Establishing the Center:**
 - 85 respondents strongly agree*
 - 8 respondents agree*
 - 10 respondents remained neutral*
 - 8 respondents disagree*
 - 3 respondent strongly disagree*

- **The technical equipment was adequately explained:**
 - 83 respondents strongly agree*
 - 11 respondents agree*
 - 10 respondents remained neutral*
 - 9 respondents disagree*
 - 1 respondent strongly disagrees*

- **The technical equipment was installed properly:**
 - 80 respondents strongly agree*
 - 15 respondents agree*
 - 12 respondents remained neutral*
 - 8 respondents disagree*
 - No one selected "strongly disagree" option*

- **Technical tools are used in the institution:**
 - 81 respondents strongly agree*
 - 14 respondents agree*
 - 9 respondents remained neutral*
 - 10 respondents disagree*
 - 1 respondent strongly disagrees*

- **The guidelines of using technical equipment were explained to users:**
 - 77 respondents strongly agree*
 - 10 respondents agree*
 - 11 respondents remained neutral*
 - 10 respondents disagree*
 - No one selected "strongly disagree" option*



• **The provided equipment is exactly what the institution needed to accelerate the learning process:**

*82 respondents strongly agree
12 respondents agree
9 respondents remained neutral
11 respondents disagree
1 respondent strongly disagrees*

• **The provided equipment is used in an innovative way:**

*78 respondents strongly agree
16 respondents agree
11 respondents remained neutral
9 respondents disagree
No one selected "strongly disagree" option*

• **The center is well located inside the institution:**

*79 respondents strongly agree
16 respondents agree
10 respondents remained neutral
9 respondents disagree
1 respondent strongly disagrees*

• **Students have benefits from new innovative learning opportunities**

*80 respondents strongly agree
16 respondents agree
11 respondents remained neutral
7 respondents disagree
1 respondent strongly disagrees*

• **The objectives of the Centers were clearly articulated, the documentation of the Centers were clearly filed**

*80 respondents strongly agree
14 respondents agree
11 respondents remained neutral
9 respondents disagree
No one selected "strongly disagree" option*



6. How much do you agree with the following statements about the Center.

Rate from 1 to 5. (1 - strongly disagree, 5 - strongly agree).

The structure was the following questions:

- **The Centers will have a positive impact on the education**

79 respondents strongly agree

16 respondents agree

18 respondents remained neutral

2 respondents disagree

No one selected "strongly disagree" option

- **The Centers are useful for learning in the institution:**

78 respondents strongly agree

17 respondents agree

15 respondents remained neutral

5 respondents disagree

No one selected "strongly disagree" option

- **The Centers will help teachers attract the best students to the institution:**

79 respondents strongly agree

20 respondents agree

10 respondents remained neutral

6 respondents disagree

No one selected "strongly disagree" option

- **The Centers will help teachers create innovative teaching within the institution:**

77 respondents strongly agree

22 respondents agree

10 respondents remained neutral

6 respondents disagree

No one selected "strongly disagree" option

- **The Center helps me to do more interesting activities:**

81 respondents strongly agree

14 respondents agree

13 respondents remained neutral

7 respondents disagree

No one selected "strongly disagree" option



- **The Center helps me to better serve the needs of my students:**
 - 79 respondents strongly agree*
 - 17 respondents agree*
 - 13 respondents remained neutral*
 - 6 respondents disagree*
 - No one selected “strongly disagree” option*

- **The Center provides exactly the result that I expected when we started the project:**
 - 75 respondents strongly agree*
 - 22 respondents agree*
 - 11 respondents remained neutral*
 - 7 respondents disagree*
 - No one selected “strongly disagree” option*

- **The Center makes my life as a teacher easier**
 - 79 respondents strongly agree*
 - 21 respondents agree*
 - 9 respondents remained neutral*
 - 6 respondents disagree*
 - No one selected “strongly disagree” option*

- **The Center makes learning more fun:**
 - 80 respondents strongly agree*
 - 16 respondents agree*
 - 11 respondents remained neutral*
 - 7 respondents disagree*
 - 1 respondent strongly disagrees*

- **The Centers help students learn better:**
 - 82 respondents strongly agree*
 - 16 respondents agree*
 - 12 respondents remained neutral*
 - 5 respondents disagree*
 - No one selected “strongly disagree” option*

- **Students seem to have more fun while taking classes using the Innovative Educational Center:**
 - 77 respondents strongly agree*
 - 19 respondents agree*
 - 12 respondents remained neutral*
 - 7 respondents disagree*
 - No one selected “strongly disagree” option*



7. If the Center does not meet your expectations, what were your expectations?

15 out of 115 respondents wrote their opinion. Their opinions were in a positive manner.

- ✚ The center met my expectations
- ✚ YES. The Center looks like a good medium to work on educational tools.
- ✚ The Center exactly meets my expectations in terms of modernity and innovation.
- ✚ It has exceeded my expectation line.
- ✚ New innovative experiences
- ✚ that it will be beneficial both for students and teachers
- ✚ I expect that the activities will be useful in terms of implementation of digital transformation
- ✚ positive expectations
- ✚ to meet modern equipped rooms
- ✚ my expectations were about innovative methods of teaching
- ✚ my expectations were good enough
- ✚ The Center meets our expectations
- ✚ Yes
- ✚ Yes, of course
- ✚ my expectations were met by effective and new innovative technologies

8. Please write down your recommendations to make centers better place for innovative education.

Answers were given by 18 respondents out of 115 respondents. There were recommendations which will be discussed in the Conclusions part.

- ✚ The center is already a better place in serving teachers
- ✚ To organize many courses and workshops as many as possible
- ✚ It should have the hand sensing projectors.
- ✚ to conduct more interactive trainings
- ✚ to invite participant from other HEIs
- ✚ to widen the access
- ✚ to have good practices in digital education
- ✚ would like to attend online seminars with other universities
- ✚ would like courses dedicated to innovative teaching methods
- ✚ to invite more guests that we could expand our knowledge
- ✚ to attract more participants
- ✚ well-structured
- ✚ More projects should be carried out
- ✚ Provide Center with high speed Internet
- ✚ experience exchange with other universities
- ✚ attract students with interesting new technology
- ✚ The functionality of IETcentres should further be expanded
- ✚ The center is already a better place for innovative educational purposes

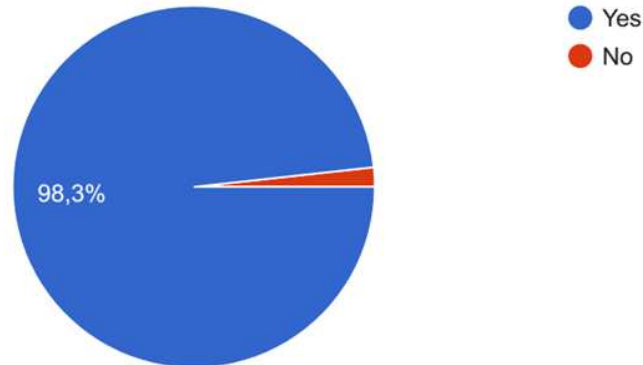


9. Did you get the opportunity for comments and criticism?

Out of 115 answers, 98.3% answered "YES".

Did you get the opportunity for comments and criticism?

115 ответов



10. If the answer to question 9 was NO, what comments or criticism would you make in the training courses?

There were no comments on this question.

11. Any other comments you may have.

10 out of 115 respondents left their comments.

- ✚ The center serves as a catalyzer for digitalisation process of Turkmenistan
- ✚ The center was created at an appropriate time and place
- ✚ Wishing the prosperity.
- ✚ No, it's ok
- ✚ No
- ✚ no comments
- ✚ This project is really in parallel with the aims of national priorities
- ✚ such projects should be continued
- ✚ IET center is a place for efficient meetings and trainings
- ✚ Active classrooms is decorated in a way that students are interested in active participation



CONCLUSION

This report is an assessment of Centers for Innovative Educational Technologies that are established in Turkmenistan in the framework of HiEdTec project. As a result, lecturers / teachers learned 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 at the centers.

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

FROM THE ANSWERS and RECOMMENDATIONS IT IS POSSIBLE TO DRAW THE FOLLOWING

CONCLUSIONS:

- The purposes and mission of the Centers correspond with national priorities and the project serves as a catalyzer in accelerating digital education transformation in the country;
- Centers for Innovative Educational Technologies were well structured;
- Such capacity building projects should be continued;
- The quality of the Centers meets high requirements;
- The equipment of the center is used in an innovative way;
- Students benefit from innovative new learning opportunities;
- The center helps teachers attract the best students to the institution;
- The center is prepared in a way that students and lecturers are interested in active participation;
- Achieved learning objectives were at a high level;
- There are good opportunities for comment, criticism and timing;
- The goals of the Center should be clarified more and equipment installed in the Center should be used in a more efficient way;
- The training was useful for all lecturers.