

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



EVALUATION REPORT OF THE OPEN EDUCATIONAL RESOURCES OF TURKMENISTAN

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



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



Editor

Deliverable number:5.9Title:Evaluation report of the Open Educational
Resources of TurkmenistanType of nature of deliverable:ReportDissemination level:International levelStatus/Version:Draft 0.1Date:November, 2022

Main authors

BAYRAM JUMAYEV – STATE POWER ENGINEERING INSTITUTE OF TURKMENISTAN ATAJAN BASHIMOV – STATE POWER ENGINEERING INSTITUTE OF TURKMENISTAN

Contributing persons

Stoyanka Smrikarova – University of Ruse Sttefanie Oestlund – University Of Luxembourg Stoyanka Smrikarova – University of Ruse Tzvetomir Vassilev – University of Ruse

This document has been produced with the support of the European Commission under the ERASMUS+ Programme, KA2 – Capacity Building in the Field of Higher Education: 598092-EPP-1-2018-1-BG-EPPKA2-CBHE-SP. It reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

No part of the report may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording; and may not be quoted or cited, without prior permission in writing from the Project Coordinator.

Evaluation report of the Open Educational Resources of Turkmenistan

HiEdTec



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



CONTENT

Executive Summary4		
	Introduction	
2	Content Of The Questionnaire	.6
Con	clusions	18

Evaluation report of the Open Educational Resources of Turkmenistan

HiEdTec



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



EXECUTIVE SUMMARY

This document presents the Evaluation report of the Open Educational Resources of Turkmenistan that were developed in the framework of *Erasmus+ Project 2018–3331 / 001 – 001, "Modernisation of Higher Education in Central Asia through New Technologies (HiEdTec)"*. This deliverable analyses the results and answers that were collected using Evaluation Form.

The main objectives of deliverable:

As a result of the cooperation, at each partner institution from Central Asian countries, including Turkmenistan, there were developed Open Educational Resources corresponding to 5 courses. This means that in total 75 web-based courses were developed. There are three partner universities from Turkmenistan which are International University for the Humanities and Development, State Power Engineering Institute of Turkmenistan, and Oguz Han Engineering and Technology University of Turkmenistan. Therefore, there were developed OERs corresponding to 15 web-based courses in total, 5 from each Turkmen partner institution. These OERs are uploaded to Virtual Library of Turkmenistan, developed in the framework of HiEdTec project. Each web-based course includes OERs such as video lecture, presentation, self-assessment quizzes, lecture notes and individual works. Therefore, this deliverable represents the necessity and benefits of OERs for the teachers and students of Turkmenistan.

All the OERs of corresponding to web-based courses can be accesses through project website and Virtual Libraries.





1 INTRODUCTION

Open educational resources corresponding to web-based courses were uploaded to Virtual Library, official project website and institutional portal as well.

Lecturers or project participants of International University for the Humanities and Development developed OERs of following web-based courses:

- 1. History of Turkmenistan;
- 2. World History;
- 3. Front-end Web Design;
- 4. Introduction to Anthropology;
- 5. Analysis of Electrical circuits.

Similarly, lecturers or project participants of Oguz Han Engineering and Technology University of Turkmenistan developed OERs of following web-based courses:

- 1. Data structure and algorithms;
- 2. Computer Architecture;
- 3. Object oriented programming;
- 4. Innovation projects management;
- 5. Creative thinking and solving nonstandard problems.

Likewise, lecturers or project participants of State Power Engineering Institute of Turkmenistan developed OERs of following web-based courses:

- 1. Control-measurement devices;
- 2. Econometrics;
- 3. Fundamentals of Nanotechnology;
- 4. Fundamentals of designing relay protection and automation of electrical power systems;
- 5. Automation of industrial processes.

OERs are available to non-registered users as well. In order to evaluate the necessity, benefit and contribution of developed OERs to the learning process, Evaluation Form was developed. The answers or replies are collected from 201 attendees.



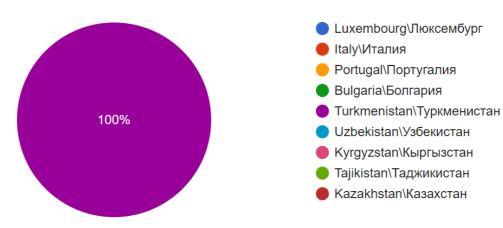
Modernisation of Higher Education in Central Asia through New Technologies (HiEdTec)



2 CONTENT OF THE QUESTIONNAIRE

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

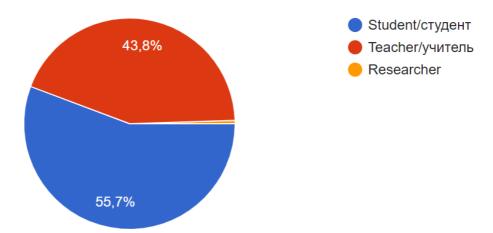
201 ответ



All the 201 attendees were from Turkmenistan.

2. Who are you? Кто вы?

201 ответ



Among the respondents, 55.7% (112 attendees) were students, 43.8% (88 respondents) were teachers and remaining only 1 was researcher.

Evaluation report of the Open Educational Resources of Turkmenistan

HiEdTec

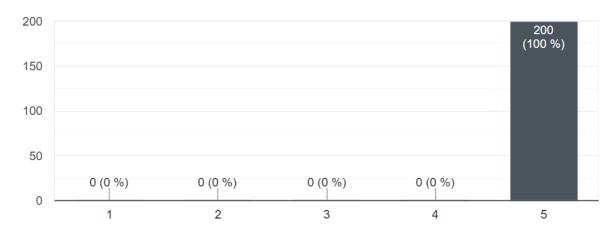


Modernisation of Higher Education in Central Asia through New Technologies (HiEdTec)



3. Overall, please tell us how well structured the open educational resources - 1 means not at all well structured and 5 means extremely well structured\ В целом, пожалуйста, расскажите нам, насколько хорошо структурированы открытые образовательные ресурсы - 1 означает плохо структурировано, а 5 означает очень хорошо структурировано.





Among the respondents, 200 (almost 100 %) replied that OERs were extremely well structured.

HiEdTec

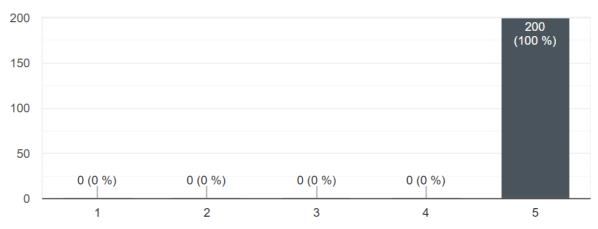


Modernisation of Higher Education in Central Asia through New Technologies (HiEdTec)



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.

200 ответов



Similarly, 200 respondents answered that the quality of developed OERs were extremely good.



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



5. Now we have a few questions about the objectives of the open educational resources. Please tell us your level of agreement with the following statements about the training courses, 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 о целях открытых образовательных ресурсов. Пожалуйста, сообщите нам уровень вашего согласия со следующими утверждениями об учебных курсах, используя шкалу от 1 до 5, где 1 означает, что вы категорически не согласны, а 5 означает, что вы полностью согласны. Если утверждение к вам не относится, выберите «H/П».

The structure of the statements/questions were as following:

- The objectives were clearly communicated\Цели были четко изложены
 - 185 responders strongly agreed
 - 15 responders strongly disagreed
- The objectives were met\Цели были достигнуты
 - 178 responders strongly agreed
 - 8 responders agreed
 - 14 strongly disagreed
- Follow-up actions resulted from the open educational resources Последующие действия по открытым образовательным ресурсам
 - 182 responders strongly agreed
 - 4 responders agreed
 - 5 responders disagreed
 - 10 responders strongly disagreed





- It is clear for what the material is needed for\Понятно, для чего нужен материал
 - 168 responders strongly agreed
 - 18 responders agreed
 - 3 responders disagreed
 - 12 responders strongly disagreed
- The right people were addessed with the open educational resources /К открытым образовательным ресурсам обратились нужные люди
 - 175 responders strongly agreed
 - 11 responders agreed
 - 1 responders disagreed
 - 14 responders strongly disagreed
- The technical equipment has been explained sufficiently / Техническое оборудование было объяснено достаточно
 - 179 responders strongly agreed
 - 7 responders agreed
 - 3 responders disagreed
 - 12 responders strongly disagreed
- The technical equipment is exactly the one neccessary and working for this purpose/Техника именно та, которая необходима и работает для этой цели.
 - 174 responders strongly agreed
 - 12 responders agreed
 - 3 responders disagreed
 - 12 responders strongly disagreed
- I can correctly use and explain what I have to do to use the open educational resources/Я умею правильно пользоваться и объяснять, что мне нужно делать, чтобы пользоваться открытыми образовательными ресурсами.
 - 174 responders strongly agreed
 - 12 responders agreed
 - 3 responders disagreed
 - 12 responders strongly disagreed





- The material is exactly what is needed in the Institution to advance the learning processes /Материал это именно то, что необходимо в Учреждении для продвижения процессов обучения.
 - 176 responders strongly agreed
 - 12 responders agreed
 - 3 responders disagreed
 - 12 responders strongly disagreed
- The material provided helps to develop the teaching in an innovative way /Предоставленный материал помогает развивать обучение инновационным способом.
 - 181 responders strongly agreed
 - 5 responders agreed
 - 3 responders disagreed
 - 12 responders strongly disagreed
- The students profit from the new innovative teaching / Студенты получают пользу от нового инновационного обучения.
 - 178 responders strongly agreed
 - 8 responders agreed
 - 1 responders disagreed
 - 14 responders strongly disagreed





6. We would also like to get your feedback on the outreach of the open 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. / Мы также хотели бы получить ваши отзывы об использовании открытых образовательных ресурсов. Пожалуйста, сообщите нам уровень вашего согласия со следующими утверждениями, используя шкалу от 1 до 5, где 1 означает, что вы категорически не согласны, а 5 означает, что вы полностью согласны.

The structure of the statements/questions were as following:

- The open educational resources will have an impact /Открытые образовательные ресурсы окажут влияние
 - 175 responders strongly agreed
 - 11 responders agreed
 - 15 responders strongly disagreed
- The material is useful for the teaching/studying at my Institution /Материал полезен для преподавания/учебы в моем учреждении.
 - 155 responders strongly agreed
 - 31 responders agreed
 - 2 responders disagreed
 - 13 responders strongly disagreed
- The things I can learn with the open educational resources will help me to attract better students to the institution /Вещи, которые я могу узнать с помощью открытых образовательных ресурсов, помогут мне привлечь лучших студентов в учебное заведение.
 - 181 responders strongly agreed
 - 5 responders agreed
 - 2 responders disagreed
 - 13 responders strongly disagreed



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



- The open educational resources will help to create more innovative teaching inside the institution /Открытые образовательные ресурсы помогут создать более инновационное обучение внутри учебного заведения.
 - 175 responders strongly agreed
 - 12 responders agreed
 - 14 responders strongly disagreed
- The learned information helps teachers to hold more interesting classes /Полученная информация помогает учителям проводить более интересные занятия.
 - 177 responders strongly agreed
 - 9 responders agreed
 - 14 responders strongly disagreed
- The open educational resources help teachers to please the needs of their students better /Открытые образовательные ресурсы помогают учителям лучше удовлетворять потребности своих учеников.
 - 175 responders strongly agreed
 - 11 responders agreed
 - 14 responders strongly disagreed
- The open educational resources deliver exactly the result that I expected when we started the project /Открытые образовательные ресурсы дают именно тот результат, на который я рассчитывал, когда мы начинали проект.
 - 175 responders strongly agreed
 - 11 responders agreed
 - 4 responders disagreed
 - 11 responders strongly disagreed
- The open educational resources make my life as a teacher/student easier /Открытые образовательные ресурсы облегчают мою жизнь как преподавателя/студента.
 - 178 responders strongly agreed



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



- 8 responders agreed
- 3 responders disagreed
- 12 responders strongly disagreed
- The open educational resources makes teaching/studying more fun /Открытые образовательные ресурсы делают преподавание/учебу более увлекательным.
 - 174 responders strongly agreed
 - 12 responders agreed
 - 4 responders disagreed
 - 11 responders strongly disagreed
- The open educational resources makes teaching/studying more fun /Открытые образовательные ресурсы делают преподавание/учебу более увлекательным.
 - 180 responders strongly agreed
 - 6 responders agreed
 - 15 responders strongly disagreed
- The students seem to have more fun during their studies when using the new open educational resources/Студенты получают больше удовольствия от учебы, используя новые открытые образовательные ресурсы.
 - 179 responders strongly agreed
 - 9 responders agreed
 - 2 responders disagreed
 - 11 responders strongly disagreed



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



7. If the open educational resources was not what you expected,, what would you have expected? / Если бы открытые образовательные ресурсы оказались не такими, как вы ожидали, чего бы вы ожидали?

1 ответ

Open educational resources are exactly what I have expected because considering the development of technologies and the necessity of science and knowledge around the world, students and teachers strive to acquire the best knowledge and sophisticated skills in any field of science and technology. For this reason, open educational resources are definitely the best choice and opportunity to reach those goals.

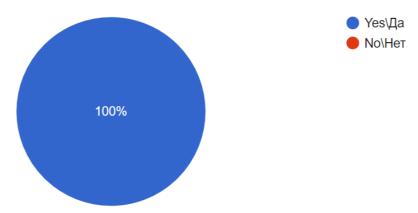
8. If you disagree with any of the point above in No.6 or 7, please comment here mentioning the reasons. / Если вы не согласны с любым из пунктов выше в № 6 или 7, пожалуйста, прокомментируйте здесь с указанием причин.

1 ответ

N/A

9. Was the material for the open educational resources given on time?/Был ли вовремя предоставлен материал для открытых образовательных ресурсов?

201 ответ



All the respondents answered to this question positively.

Evaluation report of the Open Educational Resources of Turkmenistan

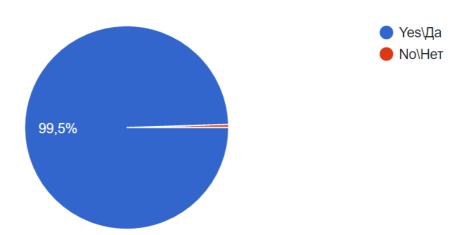
HiEdTec





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

201 ответ



200 respondents answered "YES", and only 1 respondent answered "NO".

11. If the answer to question 10 was no, what comments or criticism would you have on the open educational resources?\ Если бы ответ на вопрос 10 был отрицательным, какие комментарии или критические замечания вы могли бы предоставить по поводу открытых образовательных ресурсов?

1 ответ

I consider that open educational resources ate the best opportunity for teachers and students to learn and advance in education system.

Evaluation report of the Open Educational Resources of Turkmenistan

HiEdTec



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



12. Any other comments\ Любые другие комментарии

11 ответов

N/A

We appreciate all participants for giving such opportunities to widen the e-knowledge.

OERs are what I needed in my teaching

It is helpful for me to deepen my knowledge on my own

These resources are informative and helpful. Thank you!

Virtual library includes web-based courses which are very beneficial and contentful

Web-based courses can be used during and after class acitivities. Very good!

Other web-based courses can also be developed in this manner

I enjoyed wathcing the video lectures.

These OERs are being used by university staff of our country.

OERs were really beneficial for me.



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



CONCLUSIONS

This deliverable is the evaluation of the Questionnaire used to evaluate the Open Educational Resources (OERs) corresponding to the 15 web-based courses that were developed by Turkmen partner institutions in the framework of Erasmus+ project "Modernisation of Higher Education in Central Asia through New Technologies (HiEdTec)".

After publishing OERs on the online Virtual Library, institutional portals and project website, these OERs were made freely accessible to learners and teachers.

From the answers or replies to the questions and comments by respondents, followings can be calculated about the efficiency of OERs:

- the quality of OERs were as good as learners/teachers expected;
- the content of web-based courses such as video lectures, presentations, lecture notes, individual works and self-assessment tools are useful for learners/teachers;
- OERs will be benefited during and after class hours;
- OERs make teaching and learning more fun and exciting;
- From the comments, it is obvious that OERs are beneficial for learning and deepening knowledge individually;
- OERs were fairly well structured and easy to follow;
- Other OERs should also be developed in the same manner as existing ones.