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



**PLAN
FOR IMPLEMENTATION AND SUSTAINABLE DEVELOPMENT
OF THE CONCEPT
FOR THE ADAPTATING THE EDUCATION SYSTEM
TO THE DIGITAL GENERATION**

**Erasmus + program project in Kyrgyzstan
«Modernisation of Higher Education
in Central Asia
through New Technologies
(HiEdTec)»**

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INTRODUCTION

The introduction of digital technologies is progressing quickly at the level of government, social sphere and education in the Kyrgyz Republic. A significant part of the population (over 1 million) is involved in the education sector, therefore, the state pays special attention to the digitalization of the education sector.

National programs in Kyrgyzstan are being introduced to make higher education work more efficiently.

1) Strategy for the development of education in the Kyrgyz Republic for 2020-2040

2) Concept of digital transformation "Digital Kyrgyzstan" - 2019-2023

In the education development strategy 2020-2040, directions and ways of achieving are developed to improve the education system as a whole. Let's highlight the main points for the digitalization of higher education:

- Trends affecting the development of the education system
- Technology development - digitalization

The development of technologies distinguishes 3 main points: online mode, mastering the potential of new technologies, teaching digital skills.

The concept of digital transformation "Digital Kyrgyzstan" 2019-2023 sets goals to systematically encourage the development of our own solutions, stimulating the emergence of technology startups, internal development of companies, scientific research of the academic community, the creation of innovative technology parks and laboratories.

To ensure the implementation and sustainability of the developed Concept for adapting the education system to the digital generation in the Kyrgyz Republic (hereinafter the Concept) and its successful implementation depends on the effective coordination of the actions of educational institutions and the Ministry of Education and Science of the Kyrgyz Republic (hereinafter MES KR). Taking into account the experience of the HiEdTec project, as well as the results achieved, the Ministry of Education and Science of the Kyrgyz Republic decided to delegate the coordination of project proposals and their implementation in the field of digitalization of education to the Kyrgyz State Technical University named after I. Razzakov.

In order to introduce the Concept and disseminate the results of the HiEdTec project among educational institutions of the Kyrgyz Republic, this plan has been developed.

The plan involves the creation of an academic network of methodological centers and classrooms, joint work on the implementation of the main points of the Concept.

The main goal of the Concept is to adapt the education system to the digital generation through the development and effective use of innovative educational technologies and didactic models in teaching.

Key ideas of the Concept for adapting the education system to the digital generation, taking into account the specific conditions in the Kyrgyz Republic:

- preserving and guaranteeing the leading role of the teacher;
- development of traditional education;
- development of electronic, mobile and ubiquitous learning;
- development of blended learning and recognition of the results of non-formal learning;
- use of other innovative educational technologies;
- using innovative educational technologies in teaching students with special educational needs;



- using innovative educational technologies to attract and teach students from all over the world;
- use of innovative didactic models;
- introduction of a research approach to education;
- analysis of the results from the implementation of innovative educational technologies and didactic models;
- popularization and multiplication of results and best practices.

The concept was presented and approved for implementation at meetings of the Academic Councils of universities. Also, the concept was recommended for use by the Ministries of Education and Science of the Kyrgyz Republic. Partner universities also carried out work to disseminate the concept among the universities of the Kyrgyz Republic, and also held a number of round tables and speeches at conferences on the digitalization of education.



Sustainability Plan of the Concept for Adapting the Education System to the Digital Generation in the Kyrgyz Republic for 2020-2025.

The main objectives of the sustainable development plan are:

a) At the national level:

Distribution of electronic educational resources, videos, teaching materials and manuals developed within the HiEdTec project. The MOOC open educational resources developed are aimed at enhancing the digital skills of the teaching staff of educational institutions. These resources make it possible to facilitate individual and distance learning of modern educational technologies.

b) At the institutional level

Assistance in the digital transformation of an educational institution in accordance with the main objectives of the concept.

An action plan to ensure the sustainability of the concept of adapting the education system to the digital generation in the Kyrgyz Republic is shown in Table 1.

Table 1 - PLAN OF ACTIONS for the implementation of the Concept for adapting the system of higher and postgraduate education to the digital generation in the Kyrgyz Republic.

№ п/п	Name of events	Deadline	Performers	Completion form
At the national level				
1 Modernization of the legal and regulatory framework governing e-learning, ensuring proper quality, credit recognition mechanism and regulation of intellectual property rights				
1.1	Changes and additions to the regulatory legal documents governing the use of online, distance, blended learning technologies, regulation of intellectual property rights in relation to educational resources	2020-2025	Department of professional education of the Ministry of Education and Science of the Kyrgyz Republic, universities	Changes and additions to the current regulatory legal acts in the field of vocational education
1.2	Inclusion of measures for the implementation of the Concept for adapting the education system to the digital generation in the strategic plans for the development of educational institutions	2021 г	Educational establishments	Updated plans and key indicators
1.3	Development and distribution of a practical guide to digitalization of education	2020-2021	Department of professional education of the Ministry of Education and	A practical guide to digitalizing education



			Science of the Kyrgyz Republic, universities	
1.4	Dissemination of the Concept of Adaptation of the Education System to the Digital Generation among educational institutions of the Kyrgyz Republic, including primary, secondary and higher vocational education.	2020	Department of professional education of the Ministry of Education and Science of the Kyrgyz Republic, universities	Distribution list
1.5	Annual National Seminar on Modern Educational Technologies EduTech KG. The seminar will become a universal platform for the dissemination of advanced innovative experience of teachers at the international and national levels.	annually	KSTU named after I. Razzakov, universities of the Kyrgyz Republic	Based on the results of the seminar, a collection of abstracts is published.
2 Dissemination of project results at the national level				
2.1	Повышение квалификации педагогических работников в области разработки и применения цифровых образовательных технологий	2021-2025	Department of professional education of the Ministry of Education and Science of the Kyrgyz Republic, universities	Improving digital skills of teaching staff.
2.2	Dissemination of information about the developed open educational course for teachers "IT in Education"	2021-2025	Department of professional education of the Ministry of Education and Science of the Kyrgyz Republic, universities	Annual growth of the audience of listeners
2.3	Development and launch of a national e-learning platform for use by public and private organizations for online and blended learning.	2021-2022	KSTU named after I. Razzakov, Ministry of Education and Science of the Kyrgyz Republic	Developed system



2.4	Creation of a unified national database of e-learning materials, inter-university network	2021-2022	KSTU named after I. Razzakov, Ministry of Education and Science of the Kyrgyz Republic	Developed system
At the institutional level				
1	Introduction of the main sections of the Concept into the annual work plans of universities	2020-2025	Universities of the Kyrgyz Republic	Approved work plans
2	Support, update and replenishment of the course "IT in education"	2020-2025	Partner universities	LMS portal, academic network
3	Organization and holding of conferences, seminars on the digitalization of education. Project publications	2020-2025	Universities of the Kyrgyz Republic	Workshop materials, publications
4	Ensuring the sustainable operation of active learning classes and a center for innovative educational technologies in accordance with the stated goals and objectives.	2020-2025	Partner universities	Work plans and their implementation
5	Stimulating and rewarding employees for the development and implementation of digital educational resources and technologies in the educational process	2021-2025	Universities of the Kyrgyz Republic	Annual competition for the best e-course
6	Professional development of teaching staff in the field of innovative teaching methods and technologies, distance learning, the use of cloud technologies.	2021-2025	Universities of the Kyrgyz Republic	Professional development plan for teaching staff
7	Providing high-speed Internet in educational buildings, creating a broadband infrastructure for wireless Internet	2020-2021	Universities of the Kyrgyz Republic	Service provider contracts
8	Equipping classrooms with interactive TV panels	2021-2025	Universities of the Kyrgyz Republic	Audience passports
9	Development and acquisition of digital educational resources, e-courses	2021-2025	Universities of the Kyrgyz Republic	Implementation acts in the educational process
10	Improving the e-learning platform.	2021-2025	Universities of the Kyrgyz Republic	E-learning platforms