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



**PLAN
TO ENSURE
IMPLEMENTATION AND SUSTAINABILITY
OF THE CONCEPT
FOR ADAPTING THE EDUCATION SYSTEM
TO THE DIGITAL GENERATION**

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

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Lead authors:

Abilmazhinova I. - Ministry of Education and Science of the Republic of Kazakhstan

Nurakhmetov B.K. - Almaty Technological University

Baibolova L.K. - Almaty Technological University

Nurmukhametov N.N. - Eurasian National University named after L.N. Gumilyov

Abildinova G.M. - Eurasian National University named after L.N. Gumilyov

Nikitin Ye.B. - Innovative University of Eurasia

Aliyassova A.V. - Innovative University of Eurasia

Contributing partners:

No	Country	Institution
P2	Kazakhstan	Almaty Technological University
P3	Kazakhstan	Eurasian National University named after L.N. Gumilyov
P4	Kazakhstan	Innovative University of Eurasia
P20	Kazakhstan	Ministry of Education and Science of the Republic of Kazakhstan

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INTRODUCTION

The development of modern society in the context of informatization cannot be imagined without information technologies. As a result of the rapid development of the information revolution, information has become the most important resource of public administration. There was even a new term - the information state. By the decree of the President of the Republic of Kazakhstan in 2013, on January 8, the State Program "Informational Kazakhstan - 2020" was approved.

Kazakhstan, in turn, is objectively involved in the formation of a global information society. Therefore, to create all the necessary conditions, the State Program "Informational Kazakhstan - 2020" has been developed, they will allow our country to make a full transition to the information society.

National programs in Kazakhstan are being implemented to make higher education work more efficiently.

- 1) Strategy "Kazakhstan-2050"
- 2) State program of industrial and innovative development
- 3) State program for the development of education of the Republic of Kazakhstan
- 4) State program "Digital Kazakhstan"

In the State Program for the Development of Education of the Republic of Kazakhstan directions and ways of achieving digitalization have been developed in order to improve the education system as a whole. Let's highlight the main points for digitalization of higher and postgraduate education:

- Trends affecting the development of the education system
- Development of technologies - digitalization

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

The state program "Digital Kazakhstan" sets the goal of accelerating the development of the republic's digital economy and improving the quality of life of the population through the use of digital technologies in the medium term, as well as creating conditions for the transition of the economy of Kazakhstan to a fundamentally new development trajectory, ensuring the creation of the digital economy of the future in the long term. The development of our own solutions is also systematically going on, stimulating the emergence of technology start-ups, 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 Republic of Kazakhstan (hereinafter the Concept) and its successful implementation depends on the effective digital development infrastructure and coordination of the actions of educational institutions and the Ministry of Education and Science of the Republic of Kazakhstan (hereinafter MES RK).

In order to implement the Concept and disseminate the results of the HiEdTec project among educational institutions of the Republic of Kazakhstan, 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 tasks 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 Republic of Kazakhstan:

- preserving and guaranteeing the leading role of the teacher;
- development of traditional education;
- development of e-learning, mobile and ubiquitous learning;
- development of blended learning and recognition of the results of non-formal learning;
- use of other innovative educational technologies;
- the use of innovative educational technologies in teaching students with special educational needs;
- 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 enhancement 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 Republic of Kazakhstan. Partner universities also carried out work to disseminate the concept among the universities of the Republic of Kazakhstan, and also held a number of round tables and speeches at conferences on the digitalization of education.



Plan for ensuring the sustainability of the Concept for adapting the education system to the digital generation in the Republic of Kazakhstan 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 guidelines developed within the HiEdTec project. The developed open educational resources of the MOOC 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 Republic of Kazakhstan 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 Republic of Kazakhstan

№	Name of events	Term	Execution Performers	Completion form
National level				
1 Modernization of the legal and regulatory framework governing e-learning, ensuring proper quality				
1.1	Changes and additions to the regulatory legal documents governing the use of online, distance, blended learning technologies	2020-2025	MES RK	Changes and additions to the existing normative 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 strategic plans development of educational institutions	2021	Schools	Updated plans and key indicators
1.3	Development and dissemination of a practical guide to digitalization of education	2020-2021	MES RK	A practical guide to education digitalization



1.4	Dissemination of the Concept of Adaptation of the Education System to the Digital Generation among educational institutions of the Republic of Kazakhstan, including primary, secondary and higher vocational education.	2020	MES RK	Distribution list
1.5	Annual seminars on modern educational technologies. Seminars will become a platform for the dissemination of advanced innovative experience of teachers at the international and national levels	yearly	Schools	Based on the results of the seminar, a collection of abstracts is published.
2 Dissemination of project results at the national level				
2.1	Professional development of teaching staff in areas of development and application of digital educational technologies	2021-2025	MES RK RK Universities	Enhancing the digital skills of teaching staff
2.2	Dissemination of information about the developed open educational course for teachers "Innovative technologies and didactic models"	2021-2025	RK Universities	Annual growth of the audience of listeners
2.3	Encouraging teachers, using innovative educational technologies in educational process	2021-2022	RK Universities	Developed system
2.4	Creation of a unified national database of e-learning materials, inter-university network	2021-2022	RK Universities	Developed system
Institutional level				
1	Introduction of the main sections of the Concept into the annual work plans of universities	2020-2025	RK Universities	Approved work plans
2	Support, updating and replenishment of the open educational course for teachers "Innovative technologies and didactic models"	2020-2025	Partner-universities	LMS portal, academic Network



3	Organization and holding of conferences, seminars, master classes, trainings, webinars on the digitalization of education and the introduction of the main directions of the Concept into the education system. Project publications	2020-2025	RK Universities	Workshop materials, publications
4	Ensuring the sustainable operation of active learning classes and centers of innovative educational technologies according to the declared goals and objectives, attracting IT specialists, implementing possible startups by education	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 educational process	2021-2025	RK Universities	Annual competition for the best e-course
6	Professional development of teaching staff in the field of innovative teaching methods and technologies, distance learning, use of cloud technologies.	2021-2025	RK Universities	Professional development plan for teaching staff
7	Providing high-speed Internet in educational buildings, creating a broadband infrastructure for wireless Internet	2020-2021	RK Universities	Service provider contracts
8	Equipping classrooms with Interactive devices	2021-2025	RK Universities	Passports audiences
9	Participation in the creation of a public virtual interuniversity library of e-resources	2021-2025	RK Universities	Links
10	Internal monitoring of the implementation of innovative educational technologies and didactic models in order to improve educational activities	2021-2025	RK Universities	report
11	Dissemination of the gained experience and results through conferences, seminars, round tables, social networks, media	2021-2025	RK Universities	Publication, articles, materials seminars, conferences